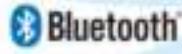
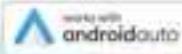
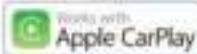


BOSS
AUDIO SYSTEMS

MRCP9685A

USER MANUAL

BLUETOOTH® | MP3-COMPATIBLE AM/FM RECEIVER
APPLE CARPLAY® & ANDROID AUTO™ (WIRED)
FEATURING 6.75" (171 mm) CAPACITIVE TOUCHSCREEN
AND MULTICOLOR ILLUMINATION OPTIONS





Thank you for choosing BOSS Audio Systems!

Sign up for BOSS Audio Systems News and Promos by visiting us on
the web at www.bossaudio.com.

Be part of our community! Join us by signing up on the web at
www.bossmailers.com

<i>IMPORTANT! Complete the information below and keep for your records.</i>	
Model	
Serial Number	
Date of Purchase	
<i>Note: Serial number is located on the packaging and the top of the product chassis.</i>	

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Important Information

About this Manual

To understand how to properly use your new BOSS Audio Systems product, it is recommended to read this user manual in its entirety, and keep it in a safe place for future reference.

This manual uses illustrations to show you how to use this product safely and alert you to potential dangers resulting from improper connections and operation. It is important to fully understand the meaning of each one of these illustrations in order to use this manual and system properly.



The **WARNING** illustration denotes very important instructions. Failure to follow them can result in damage to equipment, serious injury or death.



The **CAUTION** illustration denotes important instructions. Failure to follow them can result in injury or material property damage.

IMPORTANT NOTE

The **IMPORTANT NOTE** illustration denotes important instructions for product features and limitations. Failure to follow them will result in product misuse and/or unexpected behavior.



The **PARKING BRAKE** illustration denotes features that can only be used with vehicle not in motion, and parking brake engaged. Failure to follow them will result in product misuse and/or unexpected behavior.

Operation Warnings



OPERATION OF THIS PRODUCT WHILE DRIVING IS DANGEROUS.

Users should come to a complete stop and in a safe location before using any feature that requires extended periods of time.

PAY ATTENTION TO ROAD CONDITIONS.

Avoid operating product under dangerous road conditions and abide by regulations over information contained on the map display. Follow traffic restrictions and circumstances while driving.

OPERATE AT SAFE VOLUME LEVELS.

Excessive volume levels may obstruct sounds such as emergency vehicle sirens or road warning inputs; can be dangerous and may result in an accident. Listening at high volume levels can also cause hearing damage.

DO NOT WATCH VIDEO WHILE DRIVING.

Watching video content may distract the driver from looking ahead of the vehicle and can potentially cause an accident.

Important Information

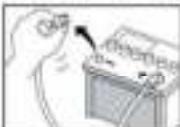
Installation Warnings

CERTIFIED PROFESSIONAL INSTALLATION.

Installation and service repair of this product by anyone without professional training and experience in consumer electronics and mobile vehicle accessories may be dangerous and result in electric shock, injury or other hazards.

DISCONNECT BATTERY.

To avoid potential shorts in the electrical system, be sure to disconnect the NEGATIVE (-) terminal cable before beginning this product installation. Failure to do so may result in electric shock, fire, damage to product and/or property damage.



DO NOT DISASSEMBLE OR ALTER PRODUCT.

Disassembly of product may result in an accident, fire or electric shock.

REPLACE FUSE WITH THE CORRECT RATING.

Failure to do so may result in fire or property damage.

PARKING BRAKE INSTALLATION WARNING:

Installing this product incorrectly may enable the user to watch video while driving. This may cause distraction, preventing the driver to focus on the road and potentially cause an accident. The driver and passengers can be severely injured.



Screen Care

USE

This head unit utilizes a Capacitive Touchscreen, the same type that is used on high-end mobile phones. It should be used for and cared for like that type of device. As with all capacitive touch technology, if your fingers are wet or sweaty, it will not function properly.

Do not allow any sharp objects to come in contact with the screen.

CLEANING

To clean the screen, use a dry or slightly damp microfiber type cloth to clean. Do not use ammonia, window cleaner, or any other type of household chemicals to clean the screen. Abrasive should never be used.

Best to clean the screen when the unit is powered off, cool and not in direct sunlight.

Notice



Apple CarPlay is a trademark of Apple Inc. iPhone® is a trademark of Apple Inc., registered in the U.S. and other countries.

Use of the Apple CarPlay logo means that this unit maintains Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

RCDS-Audio Systems is not affiliated with Apple Inc.



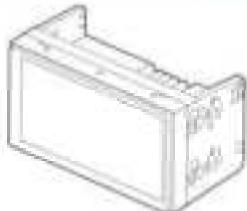
Android Auto is a trademark of Google LLC.



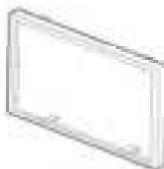
The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by RCDS-Audio Systems is under license. Other trademarks and trade names are those of their respective owners.

Basic Operation

What Comes in the Box



Head Unit



Tire Ring



2x Mounting Brackets
8x Bolts (M5 x 6mm)



Wiring Harness



Microphone with 3.5mm Plug and Sticky Base



1x Rubber Cover

(Used to protect the VUE's front panel from water ingress, abrasion and UV radiation damage.)

Basic Operation

Control Panel



1 Mute/Screen off button

- Touch to mute or restore the volume.
- When powered on, touch and hold to turn the screen off.

2 Volume up button

3 Volume down button

4 Voice assistant (Push-To-Talk)

- Touch to activate voice assistant.
- Enable Apple CarPlay, Android Auto or Bluetooth connection to use voice assistant.

5 Power/Home button

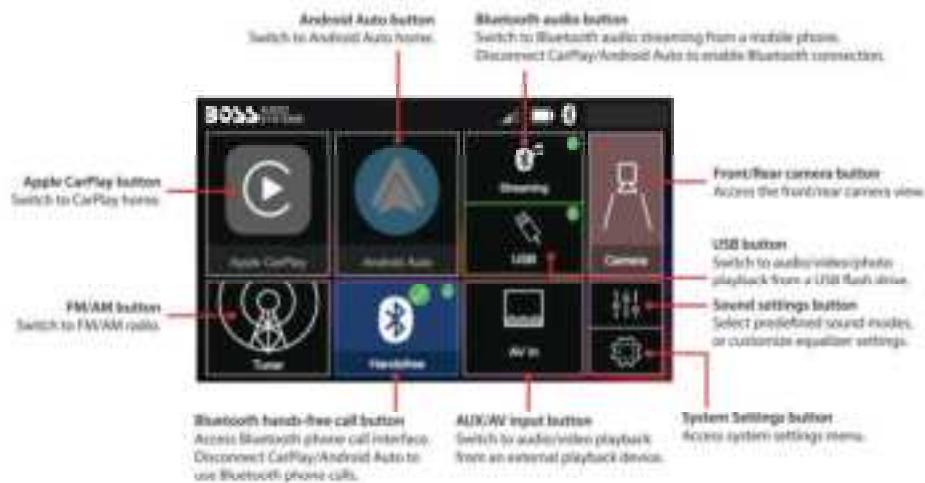
- Touch to power on the unit.
- Touch and hold to power off the unit.
- When powered on, touch to switch between the home menu and the last selected source.

6 Reset button

- Use a needle or pin to press the button. Reset the unit if the unit fails to function normally.

Basic Operation

Home Menu Description



Basic Operation

Basic Setup

Set Language

You can select English or Spanish as a display language for menu.

- From the home menu, touch to access system settings.
- Select [General] > [Language].

Enable/Disable System Tone

From the home menu, touch > [General] > [System Tone].

When disabled, sound will not be made when touching a button or option on the screen.

Set Screen Brightness

You can enable night detection and automatically dimming, and adjust screen brightness for day and night settings.

Refer to "Display Settings" section. (P20)

To select a preset sound mode (Loud, Hip hop, Pop, Rock or R&B), touch or .

To customize equalizer setting, touch or until [User] appears then move up or down each frequency bar to adjust desired output.

Set Sound Effects

From the home menu, touch to access predefined sound modes or customize equalizer settings. Or touch > [Audio] > [EQ].



FM/AM Radio

Using FM/AM

Radio Home Screen

From the Home menu, touch the radio icon to switch to radio.



- 1 Access the stored stations and favorite stations.
- 2 Tune to a station, or select a stored station.
- 3 Switch between FM and AM.
- 4 Adjust radio frequency in steps.
- 5 Switch between Stereo and Mono reception (only applicable to FM).
- 6 Set/rename the current station as favorite.
- 7 Switch between local and distant station reception (only applicable to FM).

- 8 Access radio settings menu (e.g. RDS-IRIS2 options). (P.22)

- 9 Search and store FM or AM stations.

- 10 Touch the radio frequency to access the favorite stations.

- 11 Return to the home menu.

Tune to a Radio Station

Touch and hold **[<]** or **[>]**. The unit automatically tunes to a station with strong reception.

To fine tune a station

Touch repeatedly **[<]** or **[>]** to change frequencies in steps.

Auto Store Radio Stations

Touch **[Q]** to perform radio search. All available stations in FM or AM band are stored on the unit.

Select a Stored Station

Touch briefly **[<]** or **[>]** to select a stored station. Or touch **[■]** to access the station list for stored FM and AM stations.

Set a Favorite Station

When listening to a station, touch **[■]** to set the current station as favorite. The gray star icon will turn to the red star icon.

To remove the favorite, touch **[■]**.

To access the set favorite stations, touch **[■]**.

FM Local and Distant

Touch **[W]** to select local or distant station reception. "LOC" display indicates local reception, "DSC" display for distant reception.

Select "DSC" when most FM stations are weak (e.g. in the countryside). Stations with both strong and weak signals will be received.

Select "LOC" when most FM stations are strong enough (e.g. in urban areas). Only the stations with strong signal will be received.

FM Stereo and Mono

Touch **[Q]** to select Stereo or Mono reception. When FM signal is weak, select Mono to improve sound quality (stereo will be lost).

Apple CarPlay

Using CarPlay

Apple CarPlay Introduction

CarPlay provides a smarter, safer way to use your iPhone while driving. The apps on your iPhone can be loaded and displayed on the screen of this unit. Thus, you can navigate, call, control your music and so much with hands-free control on your mobile phone.

For more details about Apple CarPlay, visit <https://www.apple.com/ios/carplay>.

Compatible iPhones

CarPlay works with iPhone 5 and all the way up to the most recent versions.

IMPORTANT NOTE

When CarPlay is enabled, hands-free calls and streaming through Bluetooth is disabled.

You can make hands-free calls and streaming through the CarPlay app.

Connect your iPhone

USB cable connection will enable CarPlay feature. iPhone pairing is not needed.

1. Connect iPhone to the unit's rear USB port labeled "Apple CarPlay", using an Apple certified USB cable with factory length (a shorter iron included). (P.28)

The apps from the iPhone will be loaded onto the unit.

Touch the Apple CarPlay icon on the unit's home menu to access the loaded apps for navigation, phone and music, etc.



1. **Menu bar:** Touch an app icon for quick access.
2. **CarPlay home button:** Return to the CarPlay home screen.
3. **Unit's home button:** Exit the CarPlay screen and return to the unit's home menu.
4. Apps loaded from the iPhone.

Use Voice Assistant

Touch on the unit's front panel to activate voice assistant, then speak your command. Make sure the supplied external microphone is connected to the unit. (P.28)



for your safety, park your vehicle in a safe place and engage the parking brake when you make any setup which requires extended time.

Apple CarPlay

Using CarPlay

Arrange your CarPlay Apps

You can add, remove, or arrange the order of the apps on the CarPlay screen of the unit.

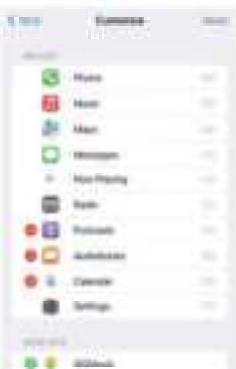
1. On your iPhone, go to Settings > General > CarPlay, select this unit's name from the device list (shown below). Then select Customize to access CarPlay apps.



2. Touch and drag an app (⋮) to change the order of the app.

Touch ⌂ or ⌃ to remove and add apps.

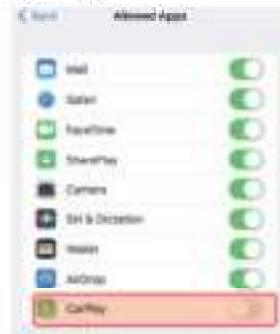
Only apps with ⌂ or ⌃ can be removed from CarPlay or added to CarPlay.



Disable CarPlay Apps

You can disable all CarPlay apps to restrict CarPlay use on this unit.

- On your iPhone, go to Settings > Screen Time > Content & Privacy Restrictions > Allowed Apps > CarPlay.



Android Auto

Using Android Auto

Android Auto Introduction

Android Auto allows the apps on your Android phone to be loaded and displayed on the screen of this unit. Thus, you can navigate, call, control your music and so more with hands-free control on your mobile phone.

For more details about Android Auto, visit <https://www.android.com/auto>.

Compatible Android Phone

Android Auto works with phones running Android 6.0 and later.

Android Auto App

- Phones with Android 6.0 and earlier needs Android Auto app downloaded from Google Play Store.
- Phones with Android 7.0 and above do not need to download Android Auto app.

IMPORTANT NOTE

When Android Auto is enabled, hands-free calls and streaming through Bluetooth is disabled. You can make hands-free calls and streaming through the Android Auto app.

Connect your Android Device

USB cable connection will enable Android Auto feature. Bluetooth pairing is automatically between the unit and your phone.

- 1 Connect your Android phone to the unit's rear USB port (labeled "Android Auto"), using a certified cable with factory length or shorter (not included). [P.28]

The apps from the Android device will be loaded onto the unit.

Touch the **Android Auto** icon on the unit's Home menu to access the loaded apps for navigation, phone and music, etc.



- 1 Unit's Home button: Exit the Android Auto screen and return to the unit's Home menu.
- 2 Android Auto Home button: Return to the Android Auto home screen.
- 3 Menu bar: Touch an app icon for quick access.
- 4 Apps loaded from the Android Phone.

Use Voice Assistant

Touch on the unit's front panel to activate voice assistant, then speak your command. Make sure the supplied external microphone is connected to the unit. [P.28]



For your safety, park your vehicle in a safe place and engage the parking brake when you make any setup which requires extended time.

Bluetooth

Connection

IMPORTANT NOTE

Bluetooth on the unit is enabled only when CarPlay or Android Auto is not connected. Make sure your CarPlay or Android Auto is disconnected for Bluetooth use.

Compatibility with all mobile devices is not guaranteed.

First Time Connection

When you connect your Bluetooth device to this unit for the first time, pair the device with this unit.

1. On your mobile device go to **Settings** > **Bluetooth**, and select this unit's name (BOSS AUDIO MRCP968VA) to pair.

2. Follow on-screen instructions to complete pairing.

When prompted during pairing, select "Allow" on your mobile phone so that your phonebook and call history can be downloaded and displayed on the screen of this unit.

Bluetooth Reconnection

The unit will automatically connect with the last paired device each time they are powered on.

Streaming

Audio Streaming

Before you can stream audio from your mobile device to this unit, make sure Bluetooth connection is made.

1. From the home menu, touch  there.

The music from the device plays automatically.

Playback Control

- To play or pause, touch .
- To skip to the previous or next file, touch  .
- To search fast backward or forward, touch and hold .

IMPORTANT NOTE

For best performance, your mobile device volume should be set to maximum.

All volume adjustment should be controlled from the unit.

Connection to a Second Device

You need to disconnect the currently connected device before you can pair or connect a second device.

1. From the home menu, touch  there until [Device] to display the connected paired devices.

2. Touch the connected device name to disconnect (Bluetooth) connection.



3. You can now pair/connect with a second device.



For your safety, park your vehicle in a safe place and engage the parking brake when you make any stop which requires extended time.

Bluetooth

Hands-Free Call

Make a Call



From the home menu, touch .

The calling interface is displayed.



3 Options to Dial a Bluetooth Call

- Input a phone number on the virtual keypad, and touch .
- Touch [Contact] tab to access your contact list, then touch a contact.
- Touch [History] tab to access your call history, then touch a number.

Operation during a Call

- To end a call, touch .
- To make a call, touch .

- To use a keypad during a call, touch .
- To switch to private mode, touch . The call will move to your mobile device.
- To return to hands-free mode, touch . The call will move back to the unit.

Sync Phonebook and History

Touch [Contact] or [History] tab, then [Download].

The phonebook and call history from your mobile phone will be displayed on the unit.

Search a Contact

Touch [Contact] tab, then . The alphanumeric keypad is displayed. Enter a contact name for search.

Browse Call History

Touch [History] tab to display the call history.

Outgoing call

Incoming call

Missed call

Voice Assistant (Push-To-Talk)

View Connection Status

Touch [Device] tab to display the paired devices.

- A highlighted device name indicates the currently connected device.
- To connect a paired device, simply touch the paired device name.
- To delete a paired device from the memory, touch .

Voice Assistant (Push-To-Talk)

You can access smartphone voice assistant through the unit.

Before you Start

- Enable Bluetooth connection between your smartphone and the unit, or enable Apple CarPlay/Android Auto.
- Make sure the hands-free microphone is connected to the Microphone input of the unit for audio input. (P.26)

Touch on the unit's front panel to activate voice assistant, then speak your command.

USB

USB Playback

You can play audio, video and photos stored on a USB flash drive. Connect your USB flash drive to the rear USB port labeled "USB/Charging".

From the home menu, touch 

Music from the device plays automatically.

If there are audio, video and photo files in the USB audio files will play first.

Audio/Video/Photo Play Switching

1. In the playback interface, touch . The file browser bar is displayed.



2. Touch [Music], [Video], or [Image] tab to select an audio, video or picture file to play.

IMPORTANT NOTE

Videos and photo cannot not be viewed while driving. The vehicle must be stationary and the parking brake applied to enable viewing.

To activate viewing, also make sure the parking brake switch wire (light green) is properly connected to your vehicle. (P.26)

Audio Playback

In the audio playback interface, playback control is displayed.

- To play or pause, touch .
- To skip to the previous or next file, touch .
- To search fast (backward or forward), touch and hold  until a speed indicator appears, then touch repeatedly to select a search speed.
- To select a repeat mode, touch .
- To turn on or off shuffle play, touch .

Video Playback

In the video playback interface, touch the screen to display playback controls.

- To play or pause, touch .
- To skip to the previous or next file, touch .
- To search fast (backward or forward), touch and hold  until a speed indicator appears, then touch repeatedly to select a search speed.
- To select a repeat mode, touch .

Video Settings

During video playback, touch  to access the Brightness / Contrast / Color settings.

Photo Playback

In the photo playback interface, touch the screen to display playback controls.

- To play or pause, touch .
- To select the previous or next file, touch .
- To select a repeat mode, touch .
- To enlarge the picture, touch  then drag the magnifying slide.
- To rotate the picture, touch .

WARNING

Watching video or photo while driving is against Federal, State, and Local laws.

Do not use features of this unit if it cannot be operated safely and legally in your location.

Other External Devices

Audio/Video Input

Camera

Playback

From the home menu, touch .

Audio and video input screen is displayed.

Audio Input

You can listen to an audio device (e.g. a mobile phone or MP3 player) through this unit.

Audio Cable Connection

Connect the RCA inputs ("L-IN" and "R-IN") on the unit's back to the audio output on your device. (F27)

If your device does not have an RCA, use the following audio cable (not included):

- For a device with 3.5mm headphone jack, use a 3.5mm to RCA audio cable.
- For a device with USB-C port, use a USB-C to RCA audio cable.

Video Input

You can play video from a playback device (e.g. a CD/DVD, etc.).

AV Cable Connection

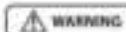
Using audio/video cables (not included), connect the RCA inputs ("L-IN", "R-IN" and "V-IN") on the unit's back to the RCA outputs (yellow/white/red) on your playback device. (F27)

IMPORTANT NOTE

Use the controls on the external device for playback control.

Video and photo cannot be viewed while driving. The vehicle must be stationary and the parking brake applied to enable viewing.

To activate viewing, also make sure the parking brake switch wire (light green) is properly connected to your vehicle. (F26)



Never rely solely on the backup camera. Always check your surroundings before backing up.

Images may appear reversed if your camera is not properly installed or set up.

Do not use features of this unit if it cannot be operated safely and legally in your location.

Make sure front/rear camera connection is correctly made. (F26)

Manual Camera Trigger

From the home menu, touch  to access front and rear camera view options.

Note: To make available the camera view options, analyse the camera signal and power input. From the home menu, touch  [Camera].

On the camera view screen, touch the camera icon to switch between front and rear cameras.

Automatic Camera Trigger

When the vehicle is put into reverse gear, the rear camera view will turn on automatically. The front camera view is not accessible when reversing.

IMPORTANT NOTE

For automatic rear camera trigger, make sure the violent/white wire ("Reverse Input") is connected to the reverse light. (F26)

System Settings

General Settings

From the home menu, touch > [General] to access general settings.



Language Setting

[Language]: Select English or Spanish as display language for menus.

System Tone and Shutdown Delay

[System Tone]: Enable or disable touch sound.

[Power OFF Delay]: Enable to keep the unit on for a set time (0/1/2/3 seconds) after accessory power or vehicle is turned off.

[Shutdown delay]: If the unit restarts during vehicle's crank to start.

Resetting the Unit

[Factory Reset]: Reset the unit to the factory settings.



Reset the unit only when the unit fails to function normally. All your settings will be erased after resetting.

Startup Message Display

[U.L.L.A.]: Turn on or off display of the U.L.L.A. (End User License Agreement) about driving safely notice when the unit is powered on from vehicle engine ignition.

Audio Settings

From the home menu, touch > [Audio] to access audio settings.



Volume Balance Setting

[Balance / Fader]: Adjust volume balance between the front or rear speakers.



Touch or from [Balance] to adjust right and left volume balance until you are pleased with the sound and a suitable balance is found.

Touch or from [Fader] to adjust front and rear volume balance until the sound has a satisfying depth.

System Settings

Audio Settings

Subwoofer Setting

[Subwoofer]: Enable or disable subwoofer output.

[Subwoofer Filter]: Adjust the cutoff frequency for the subwoofer. Only the frequencies below the one you set will be received to regenerate sound.

[Subwoofer Level]: Adjust volume output for subwoofer.

Loudness and Sound Mode Setting

[Loudness]: Enable to boost output of low and high frequencies.

[EQ]: Select a predefined sound mode or customize equalizer settings. [Preset]

Internal Amplifier On/Off

[Internal Amp]: When using the pre-amp audio outputs, turn off the internal amplifier to reduce the possibility of noise entering the signal chain.

Startup Volume Setting

[Main] (under [Default Volume]): Set a desired volume for main audio (radio and media play) when the unit starts up with main audio.

1. Adjust the slider to set a new volume value.

2. Startup volume will be the set volume if the set volume is less than the last shutdown volume (no main audio).

Startup volume will be the last shutdown volume if the set volume is greater than the last shutdown volume (no main audio).

Initial Volume Setting for Other Sources

You can set desired initial volumes for the following sources (under [Default Volume]):

+ [BT Ring]: Bluetooth ringtone volume.

+ [BT Talking]: Bluetooth call volume.

+ [Nav]: Navigation volume.

+ [Voice]: Your assistant volume.

1. Adjust the respective slider to set a new volume value.

2. initial volume will be the set volume if the set volume is less than the last used volume.

Initial volume will be the last used volume if the set volume is greater than the last used volume.

Customization of a Source Volume

You can increase or decrease one of the following source volumes, without affecting volume of other source (under [Source Level]):

- + [Radio]: Adjust radio volume alone.
- + [USB]: Adjust USB playback volume alone.
- + [BT Audio]: Adjust Bluetooth streaming volume alone.
- + [AV Input]: Adjust audio input volume alone for RCA connection.
- + [Apple CarPlay]: Adjust CarPlay volume alone.
- + [Android Auto]: Adjust Android Auto volume alone.

System Settings

Display Settings

From the home menu, touch > [Display] to access display settings.



Automatic Dimming Control

[Illumination Control]: When enabled and the vehicle light is turned on, the screen brightness and panel button lights will automatically dim.

IMPORTANT NOTE

To enable night detection and auto dimming, make sure the orange wire ("Illumination Input") is connected to your vehicle's parking light. (P.24)

Bluetooth Settings

Make sure CarPlay or Android Auto is not connected to enable unit's Bluetooth.

From the home menu, touch > [Bluetooth] to access Bluetooth settings.



[Connection]: Enable or disable Bluetooth function.

[Auto Connect]: Enable to automatically connect the paired Bluetooth device.

[Auto Answer]: Enable to automatically answer an incoming call.

[Delete Device]: Show the unit's Bluetooth name.

[Clear Record]: Clear all of the paired Bluetooth devices from the unit's memory.

Screen Setting

[Gamma Day]: Change the difference between dark and light area. Applicable when your vehicle light is turned off.

[Gamma Night]: Change the difference between dark and light area. Applicable when your vehicle light is turned on.

[Day Brightness]: Adjust screen brightness. Applicable when your vehicle light is turned off.

[Night Brightness]: Adjust screen brightness. Applicable when your vehicle light is turned on.

Panel Button Light Setting

[Panel Light]: Select one of six colors for panel button lights. Make sure [LED Animation] option is disabled to make the feature active.

[LED Animation]: Enable to automatically cycle the panel button lights through six different colors.

Wallpaper Setting

[Wallpaper]: Change a wallpaper for home, radio, or media playback screen.

[Background Brightness]: Increase or decrease brightness of the wallpaper.

System Settings

Camera Settings

From the Home menu, touch > [Camera] to access camera settings.



Camera Trigger Control

[Rear Camera]: Enable or disable rear camera signal input.

[Rear Camera Power]: Enable or disable rear camera power output. The option is invisible when [Rear Camera] is turned off.

[Front Camera]: Enable or disable front camera signal input.

[Front Camera Power]: Enable or disable front camera power output. The option is invisible when [Front Camera] is turned off.

[Rear Camera View]: When enabled, the rear camera view will be laterally (left/right) inverted.

[Front Camera View]: When enabled, the front camera view will be laterally (left/right) inverted.

[Rear View Delay]: Delay trigger of rear camera view by a set time (0.0, 0.5/1.0 seconds). A proper time setting prevents the user's screen from flickering when shifting gears.

IMPORTANT NOTE

For automatic rear camera trigger, ensure the vehicle reverse wire (labeled "Reverse Input") is connected to the reverse light. (P24)

Parking Assist Guidelines Setting

[Parking Assist Guide]: Disable the parking assist guidelines built in this unit if your rear camera view has its own parking assist guides.

[Parking Assist Guide Adjust]: Adjust the parking assist guidelines built in this unit.



Touch and drag a square icon to reposition the related guideline. Repeatedly touch an arrow icon to fine tune positioning of the related guide line. Touch [OK] to confirm the adjustment.

To reset to the default positioning of the guide lines, touch [Reset].

System Settings

Radio Settings

From the home menu, touch > [Radio] to access radio settings.



Radio Region Selecting

Select a radio region where your unit is in.
(Europe): Enable if you are in this area.
Tuner spacing: FM (50 kHz), AM (9 kHz)
(USA 1): Enable if you are in this area.
Tuner spacing: FM (100 kHz), AM (10 kHz)
(USA 2): Enable if you are in this area.
Tuner spacing: FM (100 kHz), AM (10 kHz).

RDS/RBDS Activation

[RDS/RBDS]: Enable or disable RDS/RBDS function.

When enabled, it also allows FM stations to display additional information (i.e. station name, program type or other dynamic/static messages).

IMPORTANT NOTE

Not all FM stations will have or display RDS/RBDS information.

RDS/RBDS Traffic Announcement

[TA]: When enabled, the unit will automatically tune in to traffic information broadcast despite the media source you are currently in.

Once the traffic announcement ends, the original source will automatically resume.

RDS/RBDS Alternative Frequency

[AF]: When enabled, the unit will automatically locate the same tuning program on other stations and select the strongest signal of those tuning broadcast.

This feature is most useful on long trips when your car goes out of the range of a radio station.

System Information/SWC Retention

From the home menu, touch > [About] to access system information.



Firmware Version Information

Version information starts with MCU, SOC, Hardware Version, Software Version, or SDK Version.

Steering Wheel Control Retention

The unit allows you to retain your steering wheel controls through connection to a steering wheel interface adapter (not included). (P24)

Follow the instructions of your steering wheel interface adapter to program the unit's audio and video functions on your steering wheel controls.

Not all OEM steering wheel controls may be supported.

Unit Installation

Dash Mounting

WARNING

See the section "Installation Warnings" (P.6)

IMPORTANT NOTE

Before you mount the unit into the dash, complete the wiring connection (P.24 to 29).

Installation Dimensions



A: 1.87" (47.3 mm)

B: 6.77" (170.5 mm)

C (Overall depth): 4.87" (123.8 mm)

D (Installation depth): 4.67" (118.6 mm)

Double DIN Opening Installation

This unit is designed to be installed in the double DIN dash opening (4" x 7").

1. Attach the two supplied L-brackets to the both sides of the unit, using the supplied bolts and the screw holes on both sides of the unit.

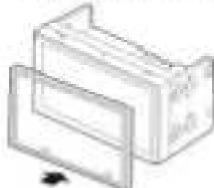


2. Slide the unit into the dash opening. Then fix the unit by fastening the L-brackets around the dash opening with proper screws (not included).

Consult a professional installer on whether screw hole drilling is required.

Attach the Trim Ring

After the unit is mounted into the dash, attach the trim ring to the unit's front panel.



Connections

Power and Steering Wheel Control (SWC) Wiring

WARNING

See the section "Installation Warnings" (P.8).

IMPORTANT NOTE

Unused input/output wires need to be insulated with tape, heat shrink, or crimp connectors. Never use wire nuts.

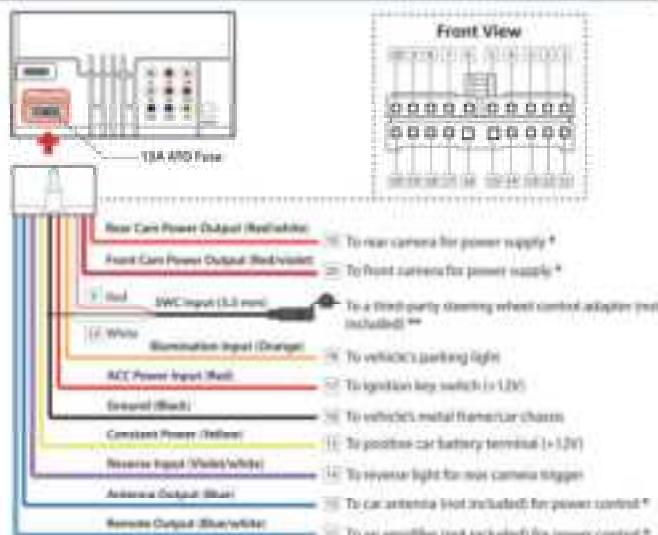
Always replace the faulty fuse with the same type and rating (15A).

Illumination input wire (Orange) must be connected to the parking light for night detection and auto dimming in screen and panel button lights.

Reverse input wire (Blue/white) must be connected to the reverse light wire for automatic rear camera trigger when the gear is changed to reverse.

* Power output is max. 500mA, 12V. It is recommended to use a relay if additional power is required.

** Consult a professional installer for a correct SWC adapter to match your vehicle, and follow the instructions of the steering wheel interface/adapter for complete wiring.



Connections

Speaker Wiring

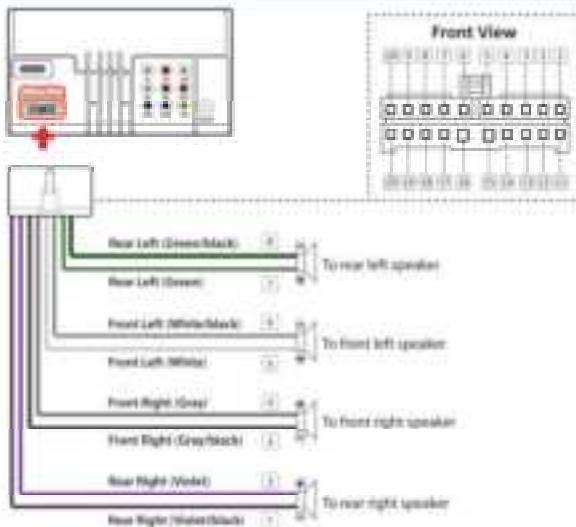
CAUTION

Do not chassis ground any speaker wire leads.
Only use 4-8 Ω speakers.
DO NOT USE 1-3 Ω SPEAKERS.
Do not bridge any of the channels. They are only
to be wired in series mode.

IMPORTANT NOTE

Unused speaker wires need to be insulated with
tape, heat shrink, or crimp connectors to avoid
damage to the unit. Never use wire nuts.

Double-check speaker polarity when making
connections.



Connections

Parking Brake Wiring

! IMPORTANT NOTE

Video and photo playback can be enabled only when the parking brake switch wire is connected to your vehicle, and the vehicle's parking brake is unengaged.

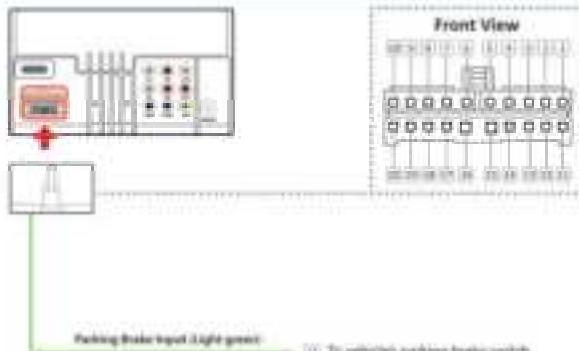


Park your vehicle in a safe place and engage the parking brake to view video and photo.

! WARNING

Inproper connection or use of the parking brake switch wire (e.g. defeating the safety feature) violates Federal, State, and Local laws. This may lead to injury, property damage, and/or death.

Watching videos or photos while driving is against Federal, State, and Local laws.



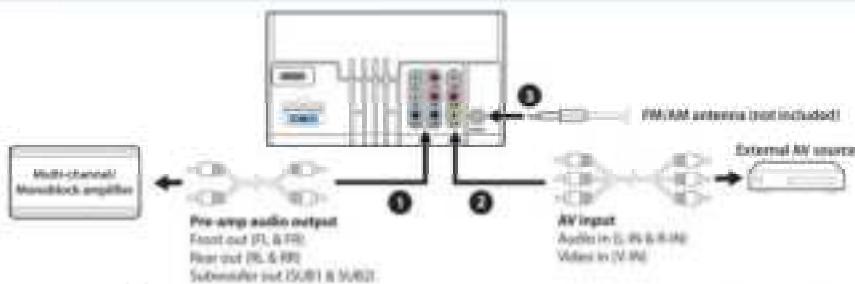
(1) To vehicle's parking brake switch

i Note

Parking brake switch location varies from vehicle. Consult a professional installer.

Connections

AV/Radio



IMPORTANT NOTE

Subwoofer pre-amp is a non-fading mono output.

Always run signal wires away from power cables to reduce the possibility of noise.

- ① Using RCA audio cables (not included), connect the audio output on the unit to an external amplifier (not included).

- ② Using RCA audio cables (not included), connect the audio input ("L-Audio" and "R-Audio") on the unit to the audio output on an external AV source.

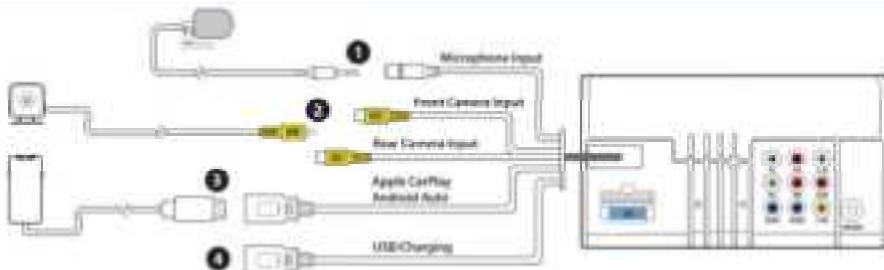
Or using an RCA to 3.5mm/USB Charging adapter (not included), connect the audio input ("L-Audio" and "R-Audio") to the audio output on your mobile phone.

Using a yellow RCA cable (not included), connect the video input ("V-Pin") on the unit to the video output on an external AV source.

- ③ Connect an FM/AM antenna (not included) for better radio reception.

Connections

Mic/Camera/CarPlay/Android Auto/USB



- ① Connect the 3.5mm plug of the supplied hands-free microphone for sound input when using phone call or voice assistance through Bluetooth or CarPlay/Android Auto.
- ② Connect the RCA plug of your camera for video signal input.
To operate your rear camera, you also need to connect camera power and reverse signal. (P.24)

- ③ Connect the lightning cable or USB cable of your iPhone or Android device to enable use of CarPlay or Android Auto.
- ④ Connect a USB flash drive for media playback, or a mobile phone for charging.

WARNING

Never rely solely on the backup camera. Always check your surroundings before backing up. Images may appear inverted if your camera is not properly installed or set up.
Do not use features of this unit if it cannot be operated safely and legally in your location.

Connections

Hands-Free Mic Installation

Placement

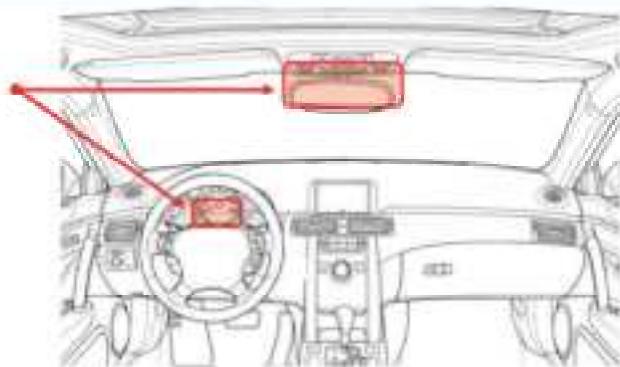
The unit comes with a hands-free microphone with sticky base and 10ft wire.

The location of the microphone can vary from different vehicles due to layout, interior materials, etc.

The **Red** shaded areas are the recommended locations for best microphone performance.

Items to look for before placement:

- Do not place in front of air vents.
- If the vehicle has tweeters placed on sail panel, do **NOT** locate the microphone in those columns area.
- The front of the microphone must not be blocked.
- Microphone should be firmly attached to mounting location.
- Do not cover the grille openings surrounding the microphone.
- To avoid excessive wind noise, do not place near the sunroof opening.



Attach the Microphone

- Clean the mounting surface.
- Remove the backing paper from the microphone base, then stick the base onto the mounting surface.
- Route and secure the microphone wire properly.

WARNING

Run the microphone wire where it will **NOT** impede with the operation of any safety items (e.g. airbag, knee airbag, etc.).

Troubleshooting

Important!

If you have checked the points described in the list and the problem persists, turn off the vehicle for ten seconds; then turn it back on again. If the problem still persists after restarting the unit, reset the unit by using a small pin to press the reset button on the front panel of the shaker. If you still have problems after applying suggestions above, please contact our Customer Service for further assistance.

General

No response / Screen or unit not powered on / Dead or incorrect picture quality.

- Restart the unit by turning off the vehicle for ten seconds, then turning the vehicle back on.

No sound from the unit.

- The unit is muted. Adjust the volume.
- Select the correct audio source on the unit.

USB

Cannot play a media file.

- The file format on the USB flash drive is not supported by the unit. Change media files.
- The file system of the USB flash drive is not supported by the unit. Change the USB drive.

No video playback or picture display.

- Video or picture display is enabled only when the parking brake is engaged, and the parking brake switch wire is connected to your vehicle. (P.26)

Apple CarPlay/Android Auto

Cannot start Apple CarPlay/Android Auto.

- Bad USB cable. Replace the cable.
- The mobile phone is locked. Unlock it.
- CarPlay/Android Auto is frozen. Unplug the mobile phone, close all apps and plug the phone in again.

Bluetooth

Cannot stream via Bluetooth.

- Make sure your mobile phone is within Bluetooth range.
- Pair and connect your mobile phone. (P.14)
- CarPlay or Android Auto is being connected. Unplug your mobile phone from the unit to enable Bluetooth connection.
- Delete the paired device on both your phone and the unit. Make the connection again.

Poor hands-free phone call quality.

- Check signal strength on your mobile phone.
- Check that the microphone is firmly attached

and plugged in. Or relocate the microphone to noise reduction. (P.29)

Cannot make Bluetooth connection.

- CarPlay/Android Auto connection disables Bluetooth on the unit. Unplug CarPlay or Android Auto from the unit to enable Bluetooth connection.
- The unit is already connected to a mobile device. Disconnect the current Bluetooth connection before connecting to another Bluetooth device.
- Delete the paired device on both your phone and the unit. Make the connection again.

FM/AM Radio

Poor radio reception.

- FM/AM antenna is not connected or extended. Connect and recut an FM/AM antenna (not included). (R.22)
- The antenna output wire is not connected. Connect the wire. (R.16)
- Turn off RDA MODE, TA and AT. (R.23)

Specifications

General

Input voltage	10 - 15.1VDC
	14.4VDC (Nominal)
Current consumption	Max. 15 A
Rate	10.4 kWh/100 km
Dimensions (H x W x D)	3.88" x 6.71" x 8.67" (Installation depth)
Unit weight	1.96 lbs.
Operational temperature	-4 to 149°F
*Zero current draw memory	Yes
*Battery radio presents volume and EQ settings in case of battery disconnected	

Display

Screen size	4.75"
Aspect ratio	16:9
Resolution	1024 x 600
Screen type	IPS-LED Active Matrix

Audio

Max power	80W x 4
Speaker impedance	4 - 8Ω
Preset EQ	Jazz, Hip-Hop, Pop, Rock, R&B
EQ bands (Adjustable)	12.63/125/230/500 Hz 1024/816 kHz

EQ bands/cut

Preamp output	+20 dB
Front (HF, Full range)	+20 dB
Mid (MF, Full range)	+20 dB
Sub (LF, 40, 1PP)	+20 dB
Sub LFE	-50/0/120/160 dB
Sub Level	+1.00 to +14.00
Audio Input	2x RCA, 1x Opto/Phono

Video

Signal system	NTSC/PAL
Video input (RCA)	1x RCA, 1Vp-p/75 Ω

Radio

Frequency range	87.5 - 108 MHz (FM) 100 - 1710 MHz (AM)
Frequency step (FM)	100 kHz (USA 1) 300 kHz (USA 2) 50 kHz (Europe)
HD/SDR	BT data, TA, AF

Apple CarPlay

Device support	iPhone 5 or later
iOS	iOS 7.1 or later

Android Auto

Android	6.0 or later
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USB

Compatibility	USB-A (2.0, High-Speed)
USB port (1)	CarPlay/Android Auto Charging (1.5A)
USB port (2)	Media/Charging (1.5A)
Supported USB	Max. 2208
File system	APFS
Audio playback	MP3, WMA, WAV, FLAC (192kHz/24bit)
Video playback	AVI, MKV, MP4
Picture playback	JPG, PNG, BMP

Note: Not all listed media files are guaranteed to play due to different creation methods or file contents.

Bluetooth

Bluetooth version	V4.2 + EDR
Transmission range	2.3m/10m (line of sight)

Bluetooth profiles	A2DP, AVRCP, HFP, HSP
Specifications are subject to change without notice.	



BOSS Audio Systems
3451 Lummis Court • Oxnard, CA 93030
www.bossaudio.com
805-751-4853 Customer Service
Tech Support: www.bossaudio.com/support



0404

Regulatory Information: 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. 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 technician for help.

FCC Caution:

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.
- The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

此页只是文件说明，不做印刷用！

文件名	24CHZ142-IM-V1.1	版本	V1.1
项目	CVDN502-SD	尺寸	1:1
客户	BOSS AUDIO	厚度	± 3mm
尺寸	开本:210*145mm, 36P 封面:彩色印刷+1号PANTONE299+亮银 内页:200G铜版纸, 内页:200G铜版纸。 封底:彩色印刷+1号PANTONE299, 封底:36P	颜色	魅惑红
日期		日期	周正海
		日期	2024.5.9
备注		备注	