

BE920WCPA USER MANUAL

Wireless Apple CarPlay & Android Auto™
BLUETOOTH® | DOUBLE-DIN
MP3-COMPATIBLE AM/FM RECEIVER
FEATURING 7" (178 mm) CAPACITIVE TOUCHSCREEN

















Thank you for Choosing BOSS Audio Systems!

IMPORTANT! Fill Out And Keep For Your Records.



IMPORTANT

Record the serial number of the product:

Model:

Serial Number:

Date of Purchase:

The serial number is located on the top part of the chassis.

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Important

This symbol with "WARNING" is intended to alert the user to the presence of critical instructions/procedures. Failure to observe the instructions/procedures can result in injury, death, damage to the product and/or property.

MARNING

This symbol with "CAUTION" is intended to alert the user to the presence of important instructions/procedures. Failure to observe the instructions/procedures can result in injury or damage to the product and/or property.









Use of the Apple CarPlay logo means that this user interface meets Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this product with iPhone may affect wireless performance.

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

Apple CarPlay is a trademark of 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 BOSS Audio Systems is under license. Other trademarks and trade names are those of their respective owners.

Caution

Precautions

BE SURE TO OBSERVE THE FOLLOWING GUIDELINES: Do not turn up the volume so high that you can't hear what's around you.

Use caution or temporarily discontinue use in potentially hazardous situations.

Do not operate mobile video equipment while driving a motorized vehicle – safe driving and safety consideration of others should always be your highest priority.

Set your volume control at a low setting, then slowly increase the sound until you can hear it comfortably without distortion, or ear discomfort.

In the event you should notice smoke, strange noises or odor from this product, or any other abnormal signs, immediately turn off the power and consult your dealer or the nearest authorized **BOSS AUDIO SYSTEMS** Service Center.

Using this product in this condition may result in permanent damage to the system.

Installation Precautions

BOSS AUDIO SYSTEMS does not recommend to install the product yourself.

We recommend to have it professionally installed by a certified professional.

Always consult with a professional installer.

Do not attempt to install or service this product by yourself. Installation or servicing of this product by persons without professional training and experience in electronic equipment and motorized vehicle accessories may be dangerous and could expose you to the risk of electric shock, injury or other hazards.

Refer any repairs to a qualified BOSS AUDIO SYSTEMS Service Center.

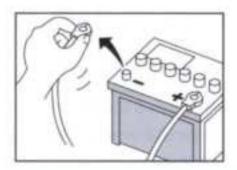
Caution

Before Installing

To avoid potential shorts in the electrical system, be sure to disconnect the (-) battery cable before installation.

Use this unit with a 12-volt battery and negative grounding only. Failure to do so may result in a fire or malfunction.





Product Safety

It is against Federal and Local laws for video to be viewed by the driver while the vehicle is in motion. This video product was intended to be used with the parking brake safety feature. Video cannot be seen without the proper parking brake powered connection. Tampering or disabling this feature will void any and all warranty. Please check with a professional installer to have your product installed properly.



Important Note

Due to ongoing enhancements, example images on screens may slightly differ from actual product.

Caution

Images and Video

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

Drive safely, know and obey traffic rules. Watching this screen and making selections while driving can lead to a serious accident.

Check surroundings for safety while camera images are displayed.

Do not use features of this product while driving if it cannot be operated safely and legally in your location. Before operation of smartphone Apps accessible from this device, read safety instructions in your Owner's Manual. When using navigation Apps stay alert to observe real world conditions.

About this manual

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

- -Read the entire manual
- -Keep the manual
- -Follow all instructions
- -Clean with a dry cloth only
- -Do not use or operate near water
- -Do not defeat any safety features

California Residents (Proposition 65)

This product may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

What comes in the box

Hardware

Qty 1 BE920WCPA

Qty 1 Trim Ring

Qty 1 Mounting Hardware Set

-M5 x 6mm Balts (8)

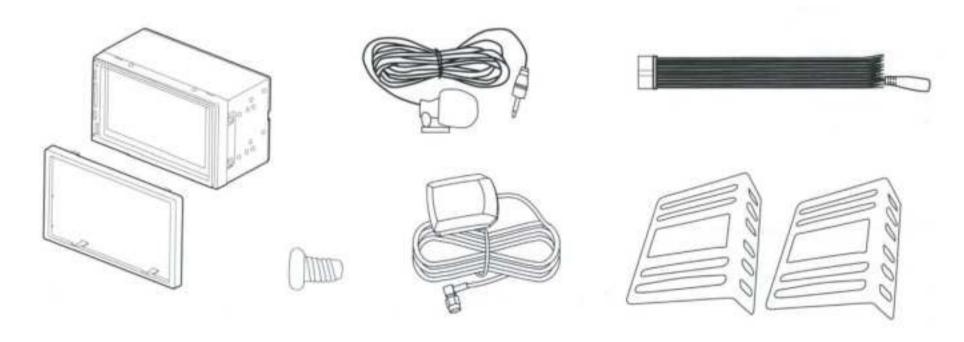
-Brackets (2)

Connections

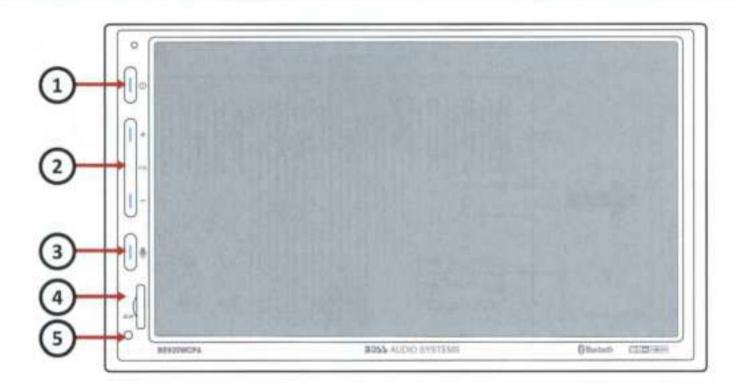
Qty 1 Wire Harness

Qty 1 Hands-free Microphone

Qty 1 GP5 antenna



Front Detail



1 Power/Mute Button

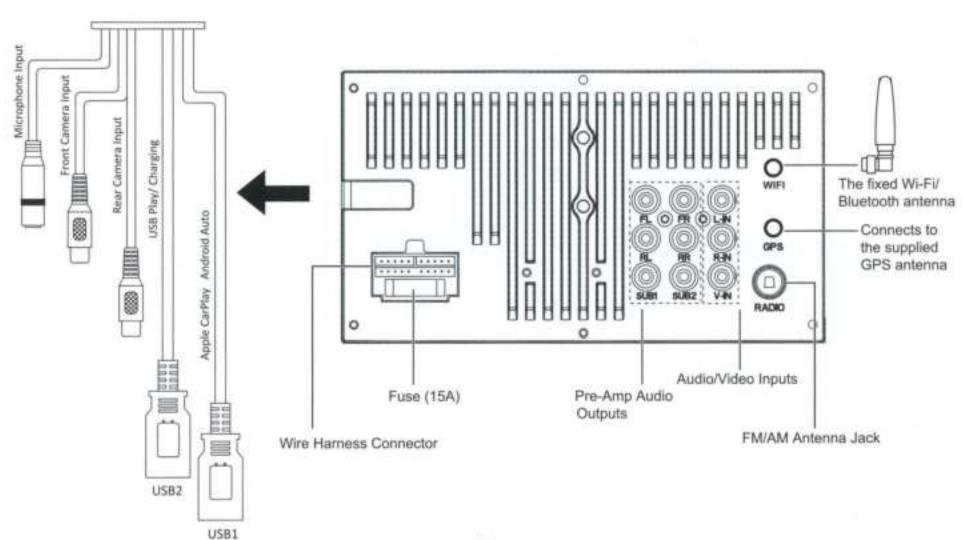
2) Volume Control

Voice Control

Micro SD Card Slot Cover

(5) Reset Button

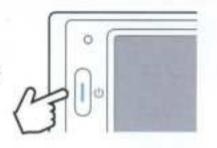
Rear Detail



Product Basics

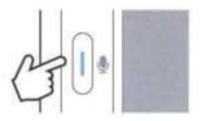
Power On / Standby

- 1. Press briefly to turn the unit on.
- 2. Press and hold to switch the unit to standby.



Voice Control

 Press to activate then say your command.



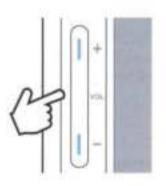


NOTE

Apple CarPlay or Andorid Auto must be active to enable voice control.

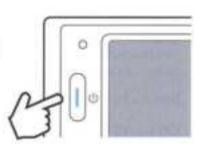
Volume Control

- 1. Press briefly to adjust volume.
- 2. Press and hold for quick volume adjustment.

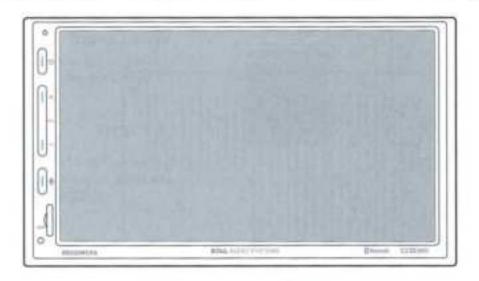


Mute

1. Press briefly to mute volume.



Using and Caring for the Touchscreen



Use:

This head unit utilizes a Capacitive Touchscreen, the same type that is used on high-end mobile devices. It should be used for and cared for like that type of device. As with all capacitive type 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 glass.

Care and Cleaning:

To clean the screen, use a dry microfiber type cloth to clean. Do not use ammonia, window cleaner, or any other type of household chemicals to clean the screen. Abrasives should not be used at all.

Product Setup (Date & Time)

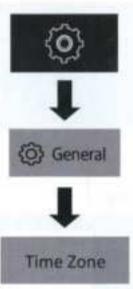
Setup Option A: CarPlay Method

Connect your iPhone to this unit through Apple CarPlay in a wired or wireless way.

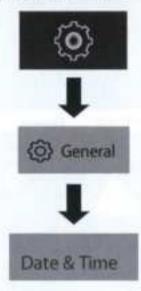
After CarPlay connection, date and time will automatically set.

Time zone must be set manually.

The default is Pacific Time zone.



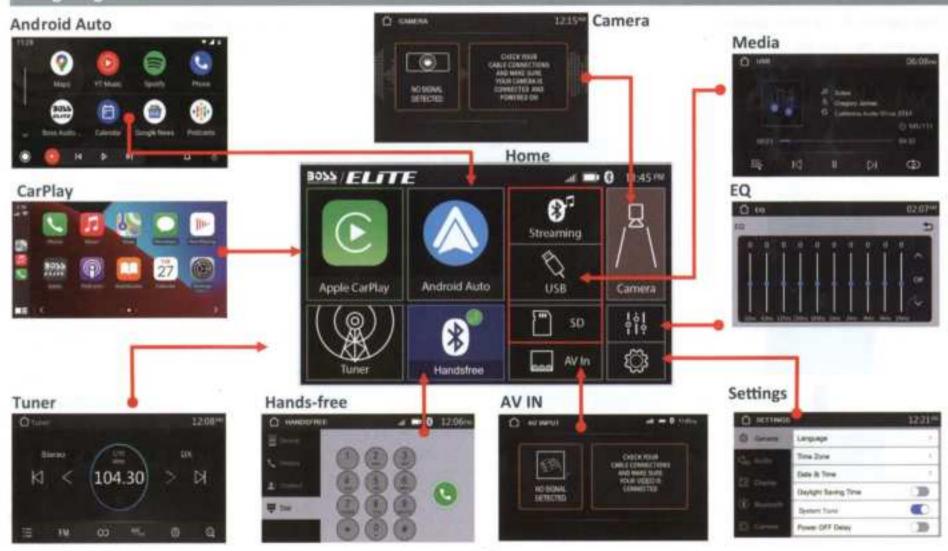
Setup Option B: Date and Time



Additional Setup

General > Language Audio > EQ, Other Audio Settings Display > Illumination, Brightness

Navigating the Menus



Apple CarPlay

Using CarPlay



i) Note

Apple CarPlay usage is limited while driving. Functions, content, and usability is determined by the App provider(s). Controls will vary with each App that is available for CarPlay.

For more details visit:

http://www.apple.com/ios/carplay



WARNING

Familiarize yourself with your Local and State laws regarding mobile devices.

Certain functions of an iPhone might be prohibited and or illegal while driving in your location.

When in doubt, park the vehicle and engage the parking brake first before performing the function(s)

Wired Connection via USB Port

Connect your iPhone to the USB port (labeled "Apple CarPlay") with a lightning cable (not included) to enable CarPlay connection.

For the initial USB connection, you will be prompted to enable wireless CarPlay on your Phone.

Wireless Connection

Enable Wi-Fi and Bluetooth on your iPhone. For first-time use of wireless CarPlay between your iPhone and this unit, you need to allow wireless CarPlay use via either of the pairing:

- Bluetooth pairing. On your iPhone, go to Settings > Bluetooth then select "BOSS AUDIO BE920WCPA" for pairing. Enable wireless CarPlay when prompted on your iPhone.
- Initial USB port connection for CarPlay.

To enable CarPlay connection

Bluetooth connection will disable wireless. CarPlay connection.

On the home screen, go to Handsfree > Device then touch the paired iPhone name to enable wireless CarPlay connection.

To enter CarPlay menu

Touch the "Apple CarPlay" icon on the home screen.



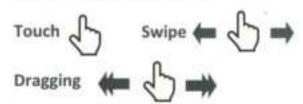
Note

If you do not allow wireless CarPlay use during first-time CarPlay connection, wireless CarPlay will be disabled on your iPhone. To use wireless CarPlay later, you need to enable CarPlay on your iPhone (go to Settings > General > CarPlay > paired device then enable its CarPlay).

When connecting to CarPlay, Bluetooth on this unit will be automatically disabled. In this case, you can make hands-free calls and stream music through CarPlay.

Gestures & Control

Basic controls, but not limited to:



Other gestures and controls might differ from apps.



Volume control is handled exclusively by this unit.

Apple CarPlay

Using CarPlay

CarPlay Display Setup

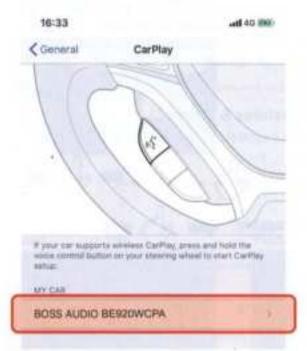
1. Using your iPhone:

Settings > General > CarPlay

2. Touch and Hold each App icon to move.

To remove an App, Touch

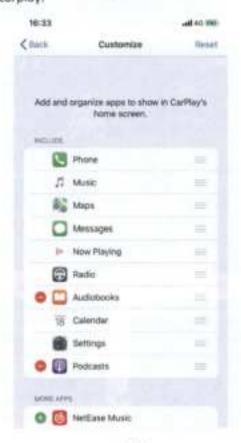






NOTE

Only Apps with the icon can be removed from CarPlay.
Only Apps with the icon can be added in carplay.



How to Disable Apps

1. Using your iPhone:

Settings > Notifications > App to Disable



Android Auto

Using Android Auto



Note

Android Auto usage is limited while driving.

Functions, content, and usability is determined by the App provider(s).

Controls will vary with each App that is available for Android Auto.

For more details visit:

https://www.android.com/auto/



WARNING

Familiarize yourself with your Local and State laws regarding mobile devices.

Certain functions of the mobile device might be prohibited and or illegal while driving in your location.

When in doubt, park the vehicle and engage the parking brake first before performing the function(s).



NOTE

To complete the setup properly, the parking brake status wire must be connected.



WARNING

For your safety, the setup process MUST be accomplished while the vehicle is Parked and Parking Brake Engaged.

Android Auto App

For Android 9.0 or earlier, download and install the Android Auto app from Google Play. For smartphone with Android 10.0 or later, plug in your phone and follow the prompts on your phone to accept the permissions that Android Auto requires.





Minimum System Requirements

- Wired connection: Android 6.0
- Wireless connection: Android 11.0

For a list of compatible devices: https://www.android.com/auto/

Updating Related Apps

During the first start up and setup of the Android Auto app, the Maps, Music, Google apps will install/update automatically.

Wired Connection via USB Port

Connect your phone to the USB port (labeled "Android Auto") with a USB cable (not included) to enable Android Auto connection.

For the initial USB connection, you will be prompted to connect wireless Android Auto on this unit.

Wireless Connection

Enable Wi-Fi and Bluetooth on your Phone. For first-time use of wireless Android Auto between your phone and this unit, you need to allow Android Auto use via either of the pairing:

- Bluetooth pairing. On your phone, go to Settings > Bluetooth then select
 "BOSS AUDIO BE920WCPA" for pairing.
- Initial USB port connection for Android Auto.

To enable Android Auto connection

Bluetooth connection will disable wireless Android Auto connection.

On the home screen, go to Handsfree > Device then touch the paired phone name to enable wireless Android Auto connection.

To enter Android Auto menu

Touch the "Android Auto" icon on the home screen.

When connecting to Android Auto, Bluetooth on this unit will be automatically disabled.

Bluetooth®

Setup & Connection

Hands-Free Menu

Touch





NOTE

Enabling CarPlay or Android Auto will disabling Bluetooth connection.

Compatibility with all mobile devices is not guaranteed. Please read through the user guide of the mobile device.



For your safety, the setup process should be accomplished while the vehicle is parked and parking brake engaged.

First time Pairing

Pair this product with your Bluetooth device before you can make hands-free calls or stream music through Bluetooth. Bluetooth pairing can be made through initial connection to CarPlay or Android Auto. Or follow the instructions below to complete it.

On your mobile device, go to Settings > Bluetooth then select "BOSS AUDIO BE920WCPA for pairing.

Follow the prompts on your mobile device and this product to complete Bluetooth pairing.

Enable Bluetooth Connection

When CarPlay or Android Auto is connected to this product, Bluetooth connection will be disabled. In this case, you need to enable Bluetooth connection.

On the home screen, go to Handsfree > Device then touch \$. Tap the icon again to disconnect Bluetooth connection.



For wired CarPlay or Android Auto connection, unplug the connection cable for use of Bluetooth connection.

When Bluetooth is enabled, CarPlay or Android Auto will be disabled. You can now make hands-free calls or stream music through Bluetooth (on the home screen, touch the "Streaming" icon to access Bluetooth streaming).

Phonebook and History

To Download Phonebook:

1. Touch Contact > Download

To Download History

1. Touch History > Download

Device Status

Battery and Cellular Strength is displayed on the top right of the Home menu.

GATT Profile support is required on the mobile device.



Bluetooth®

Hands-Free

Calling

Making & Receiving Calls

1. Dialing from the dial pad



Touch am to make call

2. Contact

Touch the contact name

3. History

Choose the name

To End a call

Touch



To Mute a call Touch



Dial pad

To use the dial pad while on a call

Touch (



Searching History

Swipe Up or Down to search



History

- 1. Outgoing Call
- 2. Incoming Call
- 3. Missed Call



Private Mode

When a call needs to be transferred to the mobile device:

Touch



to switch the mobile device



to return to hands-free mode

Searching Contacts

Contacts must be downloaded to search.

1. Touch



2. Enter the Contact Name, then

On the home screen, go to (Settings) > Bluetooth to access the following options.

Connection: ON

Auto Connect: ON

Auto Answer: OFF

Device Name: BOSS AUDIO BE920WCPA

Clear Records

Bluetooth®

Audio

Audio Streaming

To play media through Bluetooth, the mobile device must be Paired and Connected to the BE920WCPA.

If CarPlay or Android Auto is connected, you need to enable Bluetooth on this product (on the home screen, go to Handsfree > Device then tap \$1.

For wired CarPlay or Android Auto connection, unplug the connection cable for use of Bluetooth connection.

1. Touch



The music will play automatically.

Track Control

- 1. Play/Pause
- DI
- 2. Track Fwd / Rev |
- 3. Swipe to Fwd/Rev



Note

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

All volume adjustments for the system should be controlled from the product.

The unit will recall the last volume setting on your mobile device every time Bluetooth connection is made.

Formats

Playback is supported from the mobile device with any format it can play.

Audio will only be played by the product.

Video cannot be viewed on the unit.

Switching Media

Touch



Available sources will display (Bluetooth and USB)



Note

USB source will only be displayed if a USB drive is inserted and has playable media.

Display

Track info will be displayed when available.

Track, Album and Artist.

Album art is not supported via Bluetooth playback.

Media

USB/Micro SD

USB/Micro SD Playback



The music will play automatically.

Audio Control

- 1. Play/Pause D ||
- 2. Track Fwd / Rev |
- 3. Repeat ALL
- 4. Repeat One
- 5. Random X

(i) Note

If there are other files in the USB/Micro SD card, music files will play first.

Video Control

SD

- 1. Play/Pause D ||
- 2. Track Forward/Backward |
- 3. Repeat All
- 4. Repeat one CD
- 5. SETUP

Photo Control

- 1. Play/Pause D ||
- 2. Track Forward/Backward |
- Repeat All (2)
- 4. Repeat One
- 5. Rotate ③

Navigating Menu

Touch



To browse contents, Swipe



To return to the current file playing,

Touch In Playing



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

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



Note

Review the connections of this product, to properly integrate the parking brake wire to the vehicle.

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

Radio

AM/FM

Controls

Touch



Tuning

To search for stations:

Search

Touch and Hold

Manual Seek

Touch < >

Auto Search & Store: Touch (



Band & Settings

Touch FM to switch bands

To change radio settings

Touch [0]

Favorites and Presets

Settings Favorites

Touch &

Favorite Set



To remove a favorite, Touch



Browsing Favorites

Touch



To return the Tuner screen Touch



Changing Presets

Touch |

To list all Stored Stallons

Touch :=

Stereo/Mono

To turn on/off stereo when receiving a stereo signal,

Touch OO

LOC/DX

To select Local or Distant broadcasting stations,

Touch Touch

AV In/Camera

External Source

Playback

Touch



Media must be controlled from the external device.

Track functions are not controlled from the product.



Note

To adjust the volume level properly, the carry-in device volume should be set between 50 % - 75%. The volume level should remain at that level for the remainder of the time it is connected to the product.



WARNING

Never rely solely on the rear view camera; always check your surroundings before proceeding.

Images may appear reversed

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

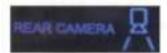
Rear View

The rear view camera can be displayed on demand.

Touch



If the user opens the SETTINGS interface and turn on both FRONT CAMERA and REAR CAMERA functions, you can choose REAR CAMERA and FRONT CAMERA casually.





To return to the Home screen

Touch



Reverse View

When the vehicle is put into reverse gear, the camera will display the image on the screen.

CHECK SURROUNDINGS BEFORE PROCEEDING



Rear View Delay

Due to varying vehicle configurations, the rear view trigger can be delayed to best suit the vehicle.

Default setting: O Sec Delay



Note

The rear view camera will still function normally, if the product is in standby mode.

General

System Language

Touch to change

English (Default), Spanish



Note

CarPlay is independent of the system language setting.

Time Zone

Adjust to correctly display time

Default Setting: (GMT-08:00) Pacific Time (US&Canada)

Date & Time

24H Mode



Auto Adjust Daylight Saving





If using an CarPlay, the iPhone will automatically set date & time. Time Zone needs to be adjusted manually.

System Tone



Power Off Delay

Some vehicles during crank to start will interrupt the accessory power.

If the product re-boots during crank to start, Turn **ON** delay

The delay can select 1, 2 or 3 sec.

Default Setting: OFF



Note

Power Off Delay ON will also delay when the vehicle is turned OFF.

This might affect hands-free functionality during a call.

Factory Settings

To restore settings to default:

Touch 🖒



Will restore all settings to factory defaults.

All settings and presets will be lost.

Audio

EQ

To access the EQ menu

Touch







Note

The EQ can also be directly accessed while changing the volume. The volume display will show the EQ icon, you can touch to access the Audio Settings.



Preset EQ

Jazz, HipHop, Pop, Rock, R&B

Balance/Fader

Left/Right Balance, Touch



Swipe for quick adjustment



Front/Rear Fader, Touch



Swipe for quick adjustment



Subwoofer

The level and filter can be adjusted for the Sub pre-amp output.

Level, 1-14 dB

Filter: 50 Hz, 80 Hz, 120 Hz, 160 Hz

Touch +/- to select a cutoff frequency for your subwoofer.

Loudness

Enhances and gently boosts low and high freq.

Touch





Internal Amp

To reduce the possibility of noise entering the signal chain when utilizing the audio pre-amp outputs, the internal amp can be turned OFF

Touch



Volume

Settings are for default volumes for Main (Radio, Media), Hands-free (BT Ring, BT Talking), Apple CarPlay / Android Auto (Navi, Voice).

Source Level

The source mode (Radio, USB, Micro SD, BT Audio, AV Input, Apple CarPlay, Android Auto) gain control.

Display

Bluetooth

Illumination Control

Touch



When the vehicle lights are on, the products illumination can be customized for night use.

Gamma

Swipe

Gamma can be adjusted for both day and night settings.

Screen Brightness

Swipe

UI settings

Wall paper

Touch to change

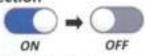
User can change the background picture by inserting a USB with photos.

Background Brightness

Swipe 🔷

Connection

Touch



Power On/Off Bluetooth

Default Setting: ON

Auto Connect



Auto connects to the device when the product is powered ON

Default Setting: ON

Auto Answer

Touch OFF →

Auto answers when there is an incoming call.

ON

Default Setting: OFF



i) Note

Bluetooth will turn OFF automatically when CarPlay or Android Auto is connected. If other devices are connected via Bluetooth, they will be disconnected for CarPlay/Android connection.

To enable Bluetooth connection, on the home screen, go to Handsfree > Device then tap \$. For wired CarPlay or Android Auto connection, unplug the connection cable for use of Bluetooth connection.

Bluetooth

Parking Assist Guide Adjust

Radio

Device Name BOSS AUDIO BE920WCPA

Rear Camera Input

Turn on if you have a rear view camera, turn off if you have not.

Front Camera Input

Turn on if you have a front view camera, turn off if you have not.

Parking Assist Guide

Turn off if your rear view camera have parking assist guide, turn on if you have not.

If your rear view camera does not have parking guide lines, turn on the parking guide lines built in this unit and adjust the guide lines if found

necessary.

Camera



Touch and drag a square icon to reposition the related guide line. Repeatedly touch an arrow icon to fine tune positioning of the related guide line. Touch the OK icon to confirm the adjustment. To reset to the default positioning of the guide lines, touch the Reset icon.

Rear View Delay

O Sec (Default), 0.1 Sec, 0.5 Sec, 1 Sec, 2 Sec When switching from Park to Drive, or vice versa, the camera should not trigger on the display.

Sensitivity should be adjusted to trigger only on reverse gear selector.

Region

Touch

Default Setting: USA 2

US Tuner Spacing: FM (200 KHz), AM (10 KHz)

European Spacing: FM (50 KHz), AM (9 KHz)

Power/SWC



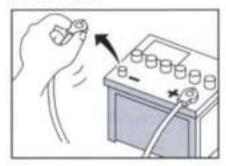
CAUTION

It is recommended to have the product installed by a certified installation professional.



CAUTION

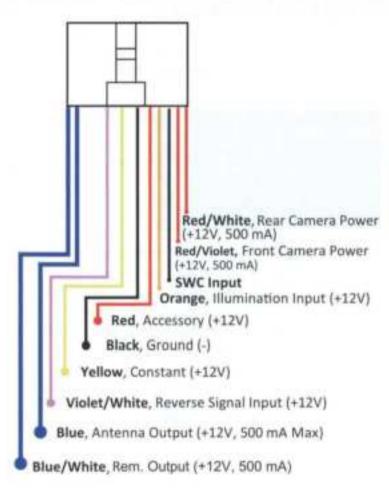
Before installation, or wiring connections, disconnect the negative (-) battery terminal to prevent damage to the product, and/or possible injury.





CAUTION

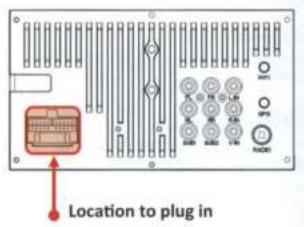
Remote Out is 500 mA max output rating. If several amplifiers are to be used, it is recommended to use a relay for the Remote Out trigger.





Note

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



(i) Note

A separate interface might be needed for your vehicle application. It is recommended that you consult with a professional installer.

i Note

When replacing the fuse, always do so with the same type and value (15 A).

Speakers



CAUTION

Do not chassis ground any speaker wire leads.



CAUTION

Only use 4-8 \O Speakers

Do not use 1-3 Ω Speakers



CAUTION

Do not bridge any of the channels, they are only to be wired in stereo mode.



i) Note

Unused speaker wires need be insulated with tape, heat shrink, or crimp connectors.

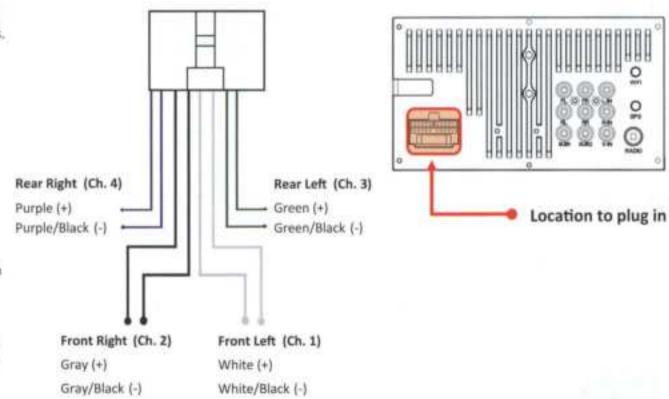
Never use wire nuts.

If the speaker outputs are not used, turn **Off** the internal amp to reduce the possibility of noise entering the signal chain.



Note

Observe speaker polarity when making connections.



Audio Pre-amp/AV IN/ Radio/GPS



i) Note

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



Note

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

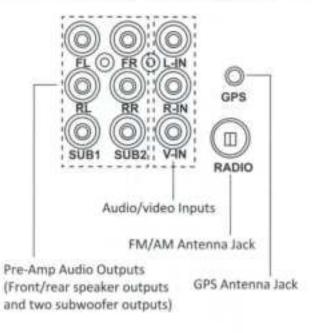


Note

This product has GPS positioning function which is only used as an auxiliary function of Android Auto / CarPlay navigation.

If the following icon is displayed on the top of the screen, this indicates no or improper GPS antenna installation. Check whether the supplied GPS antenna is correctly and securely installed on the rear of the product.

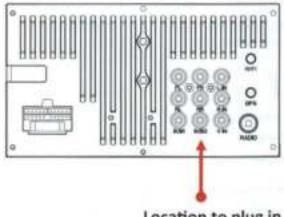






Note

If pre-amp outputs are being used exclusively, turn Off the internal amp of the product, to reduce the possibility of noise entering the signal chain.



Location to plug in

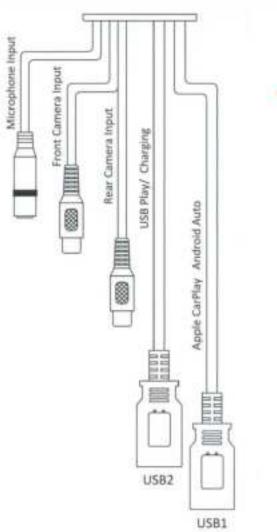
Camera/USB/MIC

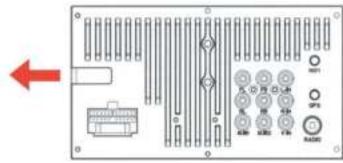


Never rely solely on the rear view camera; always check your surroundings before proceeding.

Images may appear reversed

Do not use a feature of this product if it cannot be operated safely and legally in your location.





Parking Brake



WARNING

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



WARNING

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

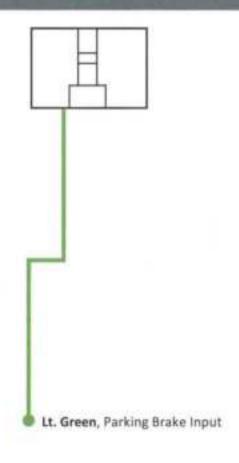


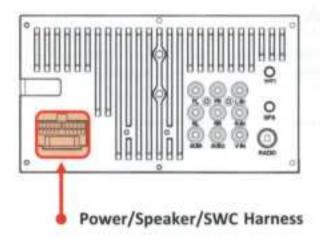
For Android Auto setup, the parking brake status wire MUST be connected.



Review the connections of this product, to properly integrate the parking brake wire to the vehicle.

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





(i) Note

The parking brake input needs to be connected to the parking brake wire.

(i) Note

Every vehicle has a different type of parking brake connection; consult a certified professional installer.

Hands-free Mic

Placement

Every vehicle will perform differently due to layout, interior materials, etc.

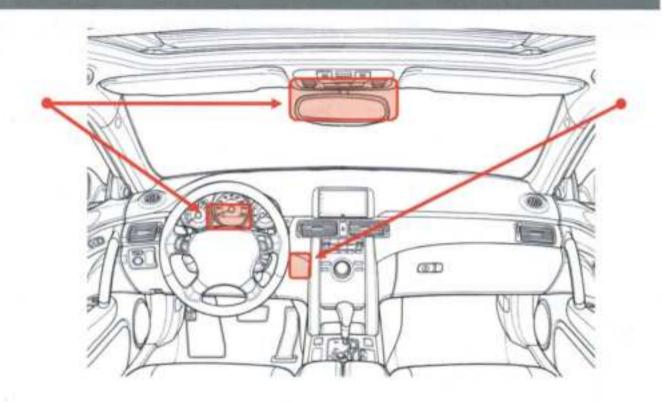
The Red shaded areas are the recommended locations for best microphone performance.

Items to look for before placement:

- 1. Do not place in front of air vents.
- If the vehicle has tweeters placed on sail panels, do NOT locate the mic on steering column area.
- 3. Front of mic must not be blocked.
- Mic should be firmly attached to mounting location.
- Do not cover the grille openings surrounding the mic.
- To avoid excessive wind noise, do not place near the sunroof opening



Run microphone wire where it will **NOT** impede the operation of any safety items, i.e. Airbags, Knee Airbags, etc.



Steering Wheel Control Compatibility

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.

3.5mm SWC input (black socket) is located on the supplied wire harness which is connected to the rear of the unit.

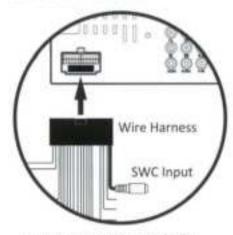


Illustration for reference only

Programmable Controls

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

Source

Mute

Home

Seek + / Next Track

Seek - / Previous Track

Volume +

Volume -

Band

Phone Menu

Bluetooth Talk

Bluetooth End Call

Voice Assistant / PTT



Note

Not all OEM steering wheel functions may be supported.

Specifications are subject to change without notice.

SWC Installation / Programming

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

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



Note

For SWC programming technical assistance, call the number in your SWC instruction manual.

Troubleshooting

Issues No sound	Cause Internal amplifier is off Product is muted External amplifiers Audio source	Solution Go to Settings > Audio > Internal Amp ON. Touch the volume. Check the external amplifiers are on. Check the remote output wire has voltage. Change the audio source.
Media not supported	Media on the USB device/Micro SD card	Change the media format on the USB/Micro SD card. Or change the USB/Micro SD card.
Poor radio reception	Radio area	Change the station,
	Antenna	Antenna output wire is not connected. Connect Antenna to product.
Apple CarPlay/Android Auto unable to start	Bad lightning*/USB cable	Replace the cable for wired connection.
	Wi-Fi or Bluetooth disabled	Enable Wi-Fi and Bluetooth on your phone.
	Wireless CarPlay/Android Auto connection disabled	Allow wireless CarPlay/Android Auto use when prompted during first time connection/pairing.
		For CarPlay use, make sure CarPlay is enabled on your iPhone (Settings > General > CarPlay > Paired device > Open CarPlay).
		Enable CarPlay/Android Auto connection (on the home screen, go to Handsfree > Device then tap the paired phone name).
Bluetooth streaming/phone call not possible	Bluetooth connection disabled	Make sure your mobile device is within range. Enable Bluetooth on your mobile device.

Troubleshooting

issues	Cause	Solution
Bluetooth streaming/phone call not possible	Bluetooth connection disabled	Enable Bluetooth connection (on the home screen, go to Handsfree > Device then tap \$). For wired CarPlay/Android Auto connection, unplug the connection cable.
Hands-free call quality	Mobile device	Check cellular strength on mobile device. End call and redial number.
	Microphone	Microphone placement needs to be relocated. Microphone needs to be firmly attached to location it's mounted on.
		Check to see if microphone is properly plugged in.
Unit is unresponsive	Processor has frozen	Restore the factory settings. Use a small pin to press the reset pinhole on the bottom of the displa-



If you have questions about this product:

Customer Service

805-751-4853

M-F 8:30a-5:00p (PST)

Tech Support: www.bossaudio.com/support/technical-support

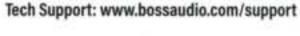
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Specifications

General	Audio Cont'd	USB/Micro SD	
Power Input8.5 V—18 V DC	Pre-amp Output3 Pairs	USB SpecUSB 2.0 (High-Speed)	
Nominal14.4 V DC	Front4V, Full-Range	USB Port 1: CarPlay & Android Auto	
Current Consumption15A	Rear4V, Full-Range	Current Output 1.5A	
Fuse Type15A	Sub (Mono)4V, LPF	USB Port 2: Media & 1.5A Charging	
Dimensions (H x W x D)3.80" x 6.71" x 3.56"	Sub LPF50 Hz, 80 Hz, 120 Hz, 160 Hz	Current Output 1.5A	
Unit Weight	Sub Level+1-14dB	USB/Micro SD card max 32GB	
Operational Temperature4—140°F	Radio Tuner	File SystemFAT32 Audio PlaybackMP3, WMA, WAV, FLAC	
Display	Freq. Range87.5 MHz-108 MHz (FM)	Video Playback AVI, MKV, WMV	
Screen Size7"	Freq. Range522 kHz-1710 kHz (AM)	Picture PlaybackIPG, PNG, BMP	
Aspect Ratio16:9	USA 1 Range (FM)100 kHz Spacing * Not all listed compressed files gua		
Resolution1024 x 600	USA 2 Range (FM)200 kHz Spacing	play due to different creation methods or file contents.	
Screen TypeTFT-LED Active Matrix	Europe Range (FM)50 kHz Spacing		
Audio	Apple CarPlay	Bluetooth*	
Max Power85 W x 4	Apple CarPlay	Versionv4.2+E.D.R.	
Acceptable Speaker Load4-8 Ω	iPhone SupportiPhone 5 or Newer	Audio CodecS.B.C.	
Preset EQ5	iOS 7.1 or Newer	Profiles	
JAZZ, HIPHOP, POP, ROCK, R&B	Android Auto	HFP v1.6, A2DP v1.2, AVRCP v1.5, PBAP v1.1	
EQ Bands, Adjustable10	WiredAndroid 6.0 or Newer	Wi-Fi	
32, 63, 125, 250Hz, 500Hz	WirelessAndroid 11.0 or Newer	Frequency Band5 GHz	
1KHz, 2KHz, 4KHz, 8KHz, 16KHz		(Only used in wireless connection for CarPlay and Android Auto)	
EQ Boast/Cut± 6 dB	37	Specifications are subject to change without notic	



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ELPC40B USER MANUAL

REAR OR FRONT VIEW LICENSE PLATE MOUNT CAMERA

FEATURING WIDE ANGLE VIEW, HIGH RESOLUTION COLOR, WATERPROOF, AND DISCREET MOUNTING BRACKET



Introduction

This camera is designed for use as a front view or rear facing back up camera. Conveniently mounted behind your license plate while hiding the mounting bracket. When installed with any of our camera-capable head units, the camera feed may be automatically triggered by shifting into reverse or manually selected from the home screen.

Package Contents

- 1x Camera with mounting solution and power/video female connector
- 1x Power/Video cable with male (yellow) RCA and male bullet terminal
- · User manual

Important

The User Manual should be read prior to installation and use of the product. Failure to read User Manual could result in injury, and/or damage to the product. This could potentially void the warranty.

Important safety precautions

- Use of this camera should be in addition to standard safe driving practices. Always check your surroundings and use your mirrors when backing up.
- Always remember there may be obstacles out of the display area of the camera. Certain obstacles may not be easily detected or seen by the camera alone.

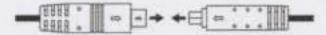
Installation precautions

- · WARNING: Always consult a professional installer.
- Improper wiring and mounting of the camera can cause damage, injury or accident. Contact our technical support for any installation questions.
- Disconnect the negative terminal of the vehicle battery prior to wiring.
- When making modifications to your car due to the installation, make sure the safety and structural integrity of the car is not impaired.
- It is highly recommended to route and secure the camera's cable along factory wiring of the vehicle. Depending on your application this may be beneath the carpet, inside the headliner, interior panels or frame rails.

Wiring

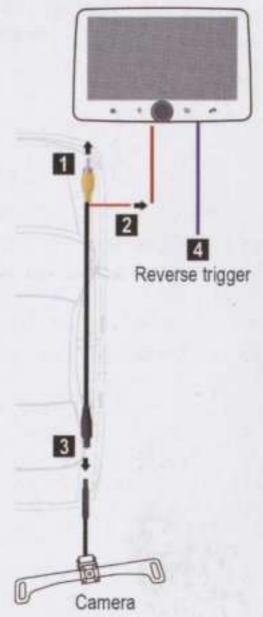
- Follow the steps described below to install this product as a front camera or a rear camera.
- For the rear camera view to automatically display on the head unit when
 reversing, ensure the "REVERSE" input trigger wire is connected to the
 vehicle's positive reverse light wire. If installed with a front camera, the
 front camera feed will not be accessible when reversing.
- Both rear and front camera view can be selected via Home screen options on your head unit.
- Connect the video cable's yellow RCA plug to the "Front Camera Input" or "Rear Camera Input" signal input depending on the placement of the camera on the vehicle.
- 2. Connect the red wire from the power/ video cable to your head unit's designated FRONT or REAR Camera power output wire. Use the appropriate camera output wire that matches the camera's placement on the vehicle.
- Connect the black male connector of the power/video cable to the female connector on the camera for power and video connection.

When connecting, align the arrows on the connector bodies to ensure proper engagement.



 Identify the vehicle's positive reverse light wire. Tap and extend it to the reverse input trigger of the head unit.

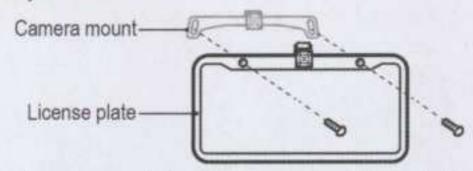
This is only for rear view camera installation.



Mounting

The camera is designed to be mounted behind the license plate of your vehicle. Line up the camera mount with the existing holes on the license plate. Drilling is not required for the camera mount.

- 1. Identify an opening near the license plate to route the wiring into the vehicle. Removing the license plate lamp or in some cases drilling a small hole may be required to route the cable into the vehicle.
- Unfasten the license plate's screws. Align the camera mount with the two top license plate mounting holes. Refasten the camera and license plate assembly to the vehicle.



Verify the camera angle is properly positioned. If needed, loosen the screws and adjust the camera angle then refasten the screws.

Troubleshooting

Problem	Solution	
No image	Verify the camera's power cable is securely plugged. Verify there is correct and secure wiring between the camera and your head unit. Verify the reverse wire on your head unit is connected to the vehicle's reverse light.	
	Verify correct camera settings on your head unit. Restart the camera.	
Image blurry	Check for water drops or dust on the camera lens. Clean it with a damp, fiber-free cloth.	
Image shaking	Verify the camera is tightly mounted.	
Image slanted	Adjust the camera frame position.	

⚠ Image Setting Options

- The camera supports AHD (720p) and CVBS (480p) video format. If your monitor does not support AHD (unable to display images), cut open the green wire loop (labeled "AHD/CVBS Resolution") which splits from the camera's cable to switch the camera to CVBS format.
- To remove the on-screen parking guidelines, cut open the white wire loop which splits from the camera's cable. Otherwise, keep the white wire loop uncut.
- If the camera image appears reverse, cut open the blue wire loop which splits from the camera's cable. Otherwise, keep the blue wire loop uncut.

Important: If any cuts were made for the above 3 options, you must cycle the camera power to enable the new setting.

Specifications

Con a contract of the contract	
Power supply	12 VDC
Viewing angle	120° (AHD), 115° (CVBS)
TV system	
Video output	1.0 vp-p, 75 Ω
S/N ratio	≤45 dB
Ingress protection rating	IP68 (waterproof)
Operating conditions	22 to +185°F (-40 to +85°C) Max. 95% RH
White balance	Auto
Illumination	Min. 0.1 lux
Automatic gain control (AGC)	Auto
Resolution (TV lines)	720 (AHD), 480 (CVBS)
Electronic shutter speed	1/60 (NTSC)
Effective pixels	1280 x 720 (AHD), 648 x 488 (CVBS)
Dimensions (L x W x H)	
	236"/6m (power/video cable); 24"/0.6m (camera's cable)

Specifications are subject to change without notice.



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BOSS Audio Systems warrants its products purchased in the U.S. against any material or craftsmanship defects in the following categories:

1 Year on Mobile Video, CD/DVD Receivers, Subwoofers, Speakers, Tweeters, ATV/UTV and Motorcycle Sound Systems from date of original purchase. Qualified purchases may receive additional two years (3 years total) when installed by a certified retailer. Proof of purchase is required.

5 Year on Amplifiers. Qualified purchases may receive additional one year (6 years total) when installed by a certified retailer. Proof of purchase is required.

1 Year on all other Electronics and Accessories. There is NO EXTENDED WARRANTY available on these items. Please visit bossaudio.com/policies for more information.

Register Your Product Online



To register your product, scan this QR code with your smart device and fill in the online form. You can also find the online registration form at: www.bossaudio.com/support

Your product may qualify for a FREE EXTENDED WARRANTY.

Please see www.bossaudio.com/policies

for the qualifications and details of this program.

THANK YOU

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We read all product feedback, so please share your experience with us and with others!

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Our U.S. based Customer Support Team is standing by to help you with your inquiries.

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JOIN OUR COMMUNITY

Join our #BOSSInsiders Program and have an impact on product updates & releases. Apply at www.bossinsiders.com to test and have an influence on future products.











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