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AUDIO SYSTEMS ELITE

BE950WCPA USER'S MANUAL WIRELESS Apple CarPlay & Android Auto™ **BLUETOOTH® 320 WATTS IN-DASH DOUBLE-DIN** FEATURING 6.75" (171 mm) CAPACITIVE TOUCHSCREEN











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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.







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.



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

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IMPORTANT Record the serial number of the Product: Model: Serial Number:

FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. The Bluetooth antenna cannot be removed (or replaced) by user. This equipment complies with FCC/ IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles). Alteration or modifications carried out without appropriate authorization may invalidate the user's right 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 F CC 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: Relocate or reorient the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.



Caution

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Adjustments or alterations of this device may result in hazardous radiation exposure.

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

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Refer any repairs to a qualified BOSS AUDIO SYSTEMS Service Center

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.



NO USER SERVICABLE PARTS INSIDE. REFER SERVICING TO A QUALIFIED SERVICE PROFESIONAL



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.



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 product, it is recommended to read this entire user's 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.

Control Details



Rear Details



Product Basics

Power On /Standby

- 1. Touch once to Power ON
- 2. Touch and Hold for Standby

In Standby Mode, the LED will slowly pulse on and off.

Volume

1.Touch once on either "+" / "-"

2.Touch and Hold for quicker operation

1. Touch to Mute

Mute



Power On /Standby

Touch once to Power ON
 Touch and Hold for Standby

 NOTE
 Apple CarPly or Android Auto must be active



1.Touch and Hold Mute



+

Display On

1.Touch the display to reactive



Using and Caring for the Touch Screen



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: Apple CarPlay Method

Connect your Apple [®] device using a Lightning[®] cable*. The CarPlay USB port mustbe used.

This will automatically setup the time and date.

User must set Time Zone manually.

Default is Pacific Time Zone



Setup Option B: Date and Time



Additional Setup see pg. 27

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

Navigating the Menus



Apple CarPlay

Using Apple CarPlay

(\mathbf{i}) NOTE

Apple CarPlay usage is limited while driving.

Functions, contents, 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

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).

For other cautions and warnings see pg. 9

Connecting to USB Port

1. Connect the CarPlay compatible device via Lightning[®] cable (not included).

2. The iPhone will load the CarPlay function.

3. On the display, the CarPlay will illuminate green, touch it to enter the CarPlay menu.

4. To return to the product homemenu



wireless connection

5. When connected to Bluetooth, CarPlay

will be reminded to load.

6. The iPhone will load the CarPlay function.

7. On the display, the CarPlay will illuminate green, touch it to enter the CarPlay menu.

i NOTE

The product's Bluetooth will turn OFF Automatically when CarPlay is in use Hands-free phoning will function through the CarPlay feature. When using CarPlay, there is no need to pair your iPhone, the USB cable connected through the USB Port will enable this feature. If other devices are connected via Bluetooth, they will be disconnected for the duration of CarPlay use.

Gestures & Control

Basic controls, but not limited to:



Other gestures and controls might differ on each App.

(i) NOTE

Volume control is handled exclusively by the product.

Wired and wireless Apple CarPlay

Using CarPlay

CarPlay Display Setup

- 1. Using your iPhone:
- 2. Settings > General > CarPlay

3. Touch and Hold each App icon to move.

To remove an App, Touch -





How to Disable Apps

Using your iPhone:

Settings >Screen time > Content & Privacy Restrictions

> Allowed Apps > CarPlay



Wired and wireless Android Auto

Using Android Auto

(\mathbf{i}) NOTE

Android Auto usage is limited while driving.

Functions, contents, 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/

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).

For other cautions and warnings see pg. 9

To complete the setup properly, the Parking Brake status wire must be connected. See **pg. 38**

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

Android Auto App

1. Using your Android device, download the **Android Auto** app on Google Play.



Minimum Requirements:

Android 8.0 Lollipop

For a list of compatible devices:

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

Updating Related Apps

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

Connecting to USB Port

- Connect the Android compatible device via the appropriate USB cable (not included).
- 2. The Android device will load the Android Auto function.
- Bluetooth will connect automatically when the setup is completed.
- 4. To return to the product home menu,

Touch



wireless connection

- 5. When connected to Bluetooth, CarPlay will be reminded to load.
- 6. The Android device will load the Android Auto function.
- Bluetooth will connect automatically when the setup is completed.
- 8. To return to the product home menu,

Android Auto

Using Android Auto

Android Auto Permissions



Permissions

Several features can be allowed or denied access to customize your usability of the product.

The access can always be modified in Settings on the Android device.



Bluetooth®

Setup & Connection

Phone Menu



(i) NOTE

CarPlay must not be active. If being used, disconnect the iPhone to start Bluetooth.

Compatibility with all mobile devices is not guaranteed. Please read through the user's 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

Navigate to the Hands-free menu (*pg. 19*) Touch search to begin searching for devices

Mobile Device:

Search for Boss Audio BE950WCPA_XXXX iOS Devices: Settings > Bluetooth Android Devices: Settings > Connections > Bluetooth



XXXX is the data randomly generated by th e unit, which meet the requirements of cer tification

A passcode is generated and will display on both the head unit and mobile device for secure pairing.

Touch Pair to confirm

Every time the product is powered ON, the mobile device will automatically connect if within range.

(i) NOTE

Once paired and connected, the device list will display the available Bluetooth profiles.



Contacts and History

To Download Phone book:

1. Touch Contact > Download

Contacts will always be stored once downloaded

To Download History:

The phone book will be automatically synch ronized after downloading

Device Status

Battery strength and signal strength is displayed on the top right of the home menu.



Bluetooth®





Bluetooth®

Audio

Audio Streaming

To play media through Bluetooth, the mobile device must be **Paired and Connected** to the BE950WCPA_XXXX, see *pg. 20*.



The music will play automatically.

Track Control



2. Track Fwd / Rev

(i) NOTE

Profiles required for audio playback and control on the mobile device:

A2DP (Advanced Audio Distribution Profile) AVRCP (Audio Video Remote Control Profile)

Media Player (Bluetooth)

Playback access is also available through the Media Player



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 is connects.

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.

Display

Track info will be displayed when available.

Track, Album and Artist.

Album art supported via Bluetooth playback.

Media



i note

If there are other files in the USB, music files will play first.

Tuner

FM/ AM		
Controls		↓ EQ
Touch Tuning Ban	 ♠ TUNER 12:19 AM \$ 98.10 ▲ ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ►	Return To return to the main interface
Search	1 2 3 4 87.50 90.10 98.10 106.10	5 6 107.90 87.50
Touch and Hold < >	Swipe to quickly tune	
To search for station	_	\checkmark
I NOTE RBDS info (if available) and currently tuned Station will display on the radio icon in the home screen Not all station will have or display RBDS info	EQ To change radio EQ To touch For all EQs, see pg. 27 Band Touch FM/AM to switch	Auto Search

AUX IN/CAMERA

External Source

Playback (Audio Only)



Media must be controlled from the external device.

Track functions are not controlled from the product.

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.

Front + Rear View

Rear and Front view camera can by displayed on demand.



To return to the Home screen Touch



 (\mathbf{i}) Note The Camera Trigger Output wire must be connected for Camera source to function.

Reverse View

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



Rear View Delay

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

See Settings pg. 27 Default setting: **0 Sec** Delay



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

(i) 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.

Audio

System Tone



Default Setting: OFF

Loud

Enhances and gently boosts low and high freq.



Default Setting: OFF

Subwoofer

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

Level, -8 - +8 dB

Default Setting: OdB

Touch< >

Filter: 80 Hz, 120 Hz, 160 Hz @ 12dB/Oct

Touch< >

To adjust the EQ bands Touch < >

Volume

Settings are for default volumes for Hands- free. Media Player is a global setting for media.

Source Level

The level can be adjusted for the different source output.

Touch < >

Audio Effect

Preset EQ , User, Pop, Blues, classical, Jazz, Electronic, Rock, Country,



Balance/Fader

Left/Right Balance, **Touch** < >

Swipe for quick adjustment

Front/Rear Fader, Touch Swipe

for quick adjustment





Illumination

Day Brightness

 $_{\text{Touch}} < >$

Adjust day mode brightness value

Night Brightness

Touch <>

Adjust night mode Brightness

When the vehicle lights are on, the products illumination will be change to night brightness automatically

Screen and LED brightness settings for this

Gamma



Gamma can be adjusted for both day and night settings.



Will cycle through all colors on LEI touch buttons. Default Setting: **ON**

LED Color Touch () Adjust button lights in different colors

Illumination Default

To restore Illumination settings to default



Will restore all display settings.

Bluetooth Device

device search

Apple Carplay Device

Wireless Apple Carplay device search

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Power On/Off Bluetooth

Default Setting: ON

(\mathbf{i}) note

Bluetooth will turn OFF automatically when CarPlay is in use. If other devices are connected via Bluetooth, they will be disconnected for the duration of CarPlay use.

Auto Connect



Auto connect to the device when the product is powered ON

Default Setting: ON





Auto answer when there is an incoming call. Default Setting: **OFF**



Device

Device

Auto Download

Phone Book

OFF ON Automatically downloads phone

book Default Setting: **OFF** Manual Download Phone

book Touch

Manual Delete Phone book Touch

Device Name

Default name : Boss Audio BE950WCPA_XXXX

Rest wifi password:



Seek Quality FM/AM



Adjust the **sensitivity** of both AM/FM bands



Will reset the seek sensitivity to back to default



Default Setting: America 2

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

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

RBDS, Radio Broadcast Data System



Default Setting: **ON** Allows data from the radio station to be displayed on the product.

Radio

RBDS stations will broadcast information to display

AF (Alternative Frequency)

RBDS



When **On**, the tuner will automatically locate the same tuning program on other stations and select the strongest signal of those being broadcast.

Default Setting: OFF

TA (Traffic Announcement)



The radio will automatically tune in to traffic information broadcasts while receiving FM broadcasts playing media.

Default Setting: OFF

Auto Preset

Touch

About

Displays the system information:



(\mathbf{i}) note

Software version information depends on the software used for production

Troubleshooting

Issues	Cause	Solution
No Sound	Internal amplifier is off	Go to Settings > Audio
	Product is muted	Touch the volume.
	External amplifiers	Check the external amplifiers are on.
	Audio source	Change the audio source
Media Not Supported	Media on USB flash drive	Change the media format on the USB device Change the USB device
Bad Radio Reception	Radio area	Go to Settings > Radio > Sensitivity
		Adjust AM/FM Sensitivity
	Antenna	Antenna output wire isn't connected
Apple CarPlay/Anroid Auto will not start	Bad Lightning [®] /USB cable	Replace the cable
	Locked device	Device needs to be unlocked
	Not charged	Device needs to be powered ON for CarPlay/ Android Auto to function. Allow it to charge
	CarPlay/Android Auto frozen	Unplug the device, close all Apps and plug it in again.
Bluetooth	Not connecting to device	Make sure the device is within range. Devices' Bluetooth connection needs to be turned ON

Troubleshooting

Issues	Cause	Solution
Bluetooth	Not connecting to device	Go to Settings > Bluetooth > Power ON Pair and Connect the device like new.
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.



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 © 2020 Boss Audio Systems

BE950WCPA

Specifications

General

Power Input	10.8 V—16 V DC
Nominal	14.4 V DC
Current Consumption	10 A (Max)
Fuse Type	15 A, Mini-ATM
Dimensions (H x W x D)	4" x 7" x 6.5"
Unit Weight	3.1 lbs.
Operational Temperature	
Display	
Screen Size	6.75"
Aspect Ratio	16 x 9
Resolution	480 x 800
Screen TypeTFT-	LED Active Matrix
Audio	
Max Power	80 W x 4 Ch.
Acceptable Speaker Load	4-8 Ω
Preset EQ	8
EQ Boost/Cut	± 7 dB

Audio

Pre-amp Output3 Pairs
Front 2V, Full-Range
Rear 2V, Full-Range
Sub (Mono) 2V, LPF
Sub LPF 80 Hz, 120 Hz, 160 Hz @ 12dB/Oct
Sub Level8 - +8dB
Radio Tuner
Freq. Range87.5 MHz-108 MHz (FM)
Freq. Range 522 kHz-1710 kHz (AM)
America Range (FM)100 kHz Spacing
America 2 Range (FM)200 kHz Spacing
Europe Range (FM) 50 kHz Spacing
RBDSAF, TA
S/N Ratio (FM)60 dB (Analog Broadcast)
Sensitivity10 dB
S/N Ratio (AM)45 dB (Analog Broadcast)
Sensitivity30 dB
Apple CarPlay
iPhone SupportiPhone 5 or Newer
iOSiOS 7.1 or Newer

Android Auto

Supported(8.0) Lollipop or Newer
USB
USB SpecUSB 2.0 (High-Speed)
USB Current Output2A (Max)
File SystemFAT32
Audio PlaybackWAV, MP3, WMA, APE, FLAC, OGG
Video PlaybackAVI, OGM, MKV, MOV, WMV
Picture PlaybackJPG, PNG, BMP
Flash Drive Supportup to 128GB
*Not all listed compressed files guaranteed to play due to different creation methods or file contents.
Bluetooth®
Versionv3.0+E.D.R.
Audio CodeS.B.C.
Profiles
A2DP v1.2, AVRCP v1.4, GATT v1.0, HFP v1.5, PBAP v1.0
Output Power Class 2

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