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0920

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Please note that the use of this product with iPhone may affect wireless performance.

BVCP9850W

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.



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IMPORTANT

Record the serial number of the

Product:

Model:

Serial Number:

Caution

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 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: □ 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

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

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

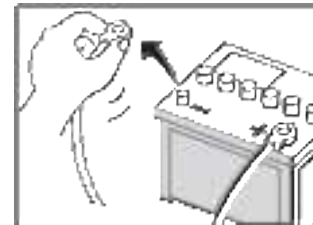
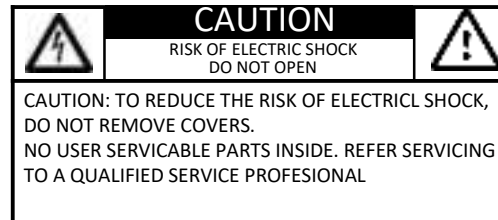
Refer any repairs to a qualified BOSS AUDIO SYSTEMS Service Center

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 product, it is recommended to read this entire user's manual, and keep it in a safe place for future reference.

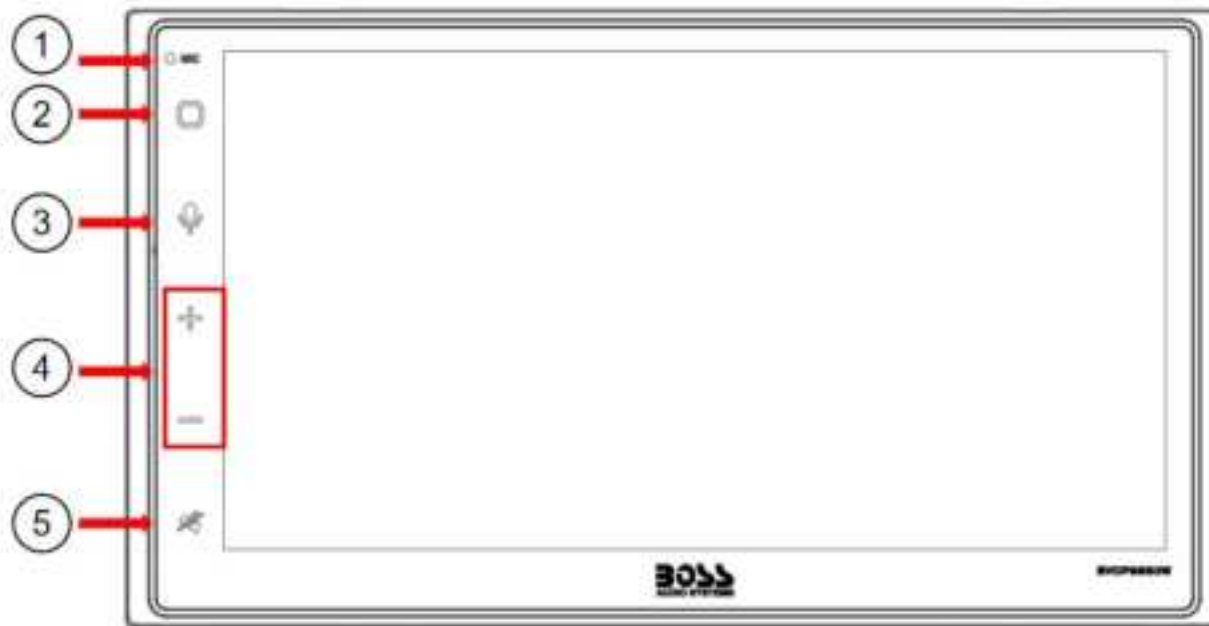
- Read the entire manual
- Keep the manual
- Follow all instructions
- Clean with a dry cloth only
- Do not use or operate near water
- Do not defeat any safety features

California Residents (Proposition 65)

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

Basic Product Operation

Control Details



① Microphone

② Power/Home

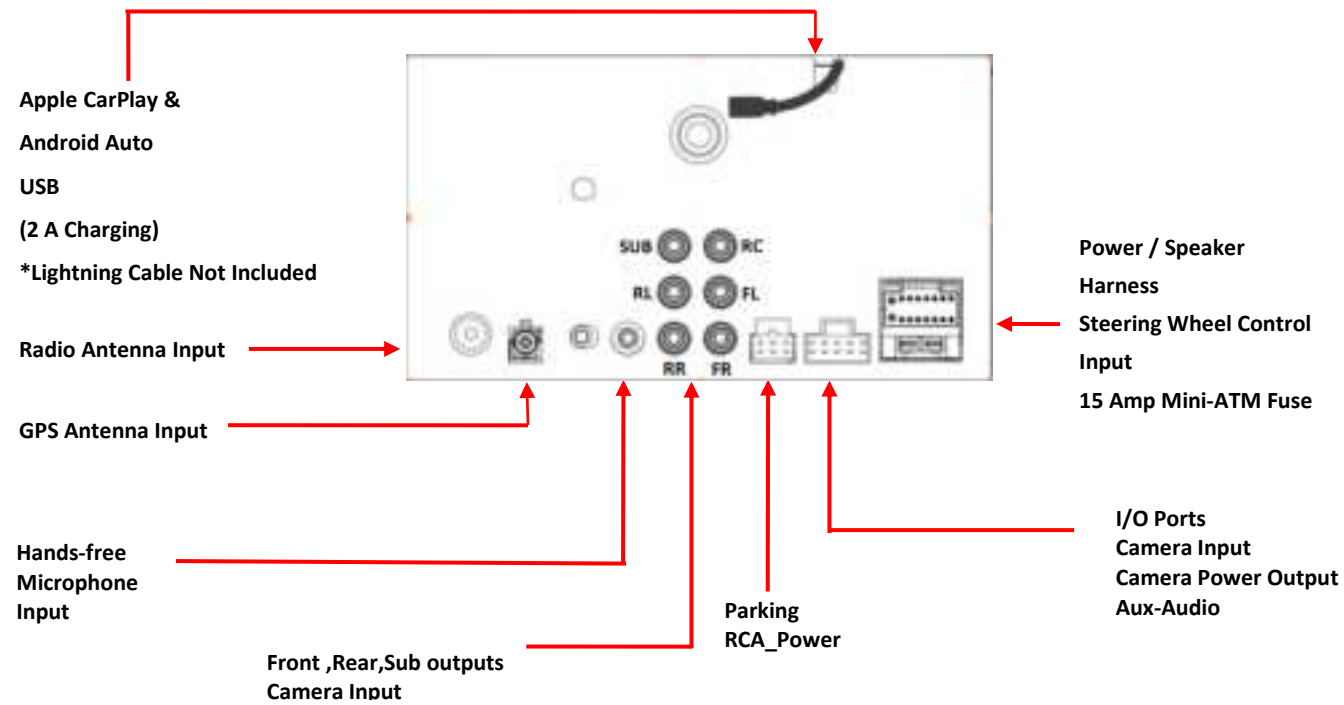
③ Voice Recognition

④ Volume Control

⑤ Mute/Screen Off

Basic Product Operation

Rear Details

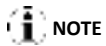


Basic Product Operation

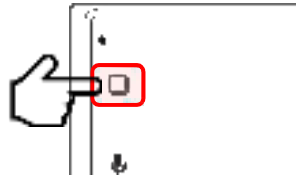
Product Basics

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.

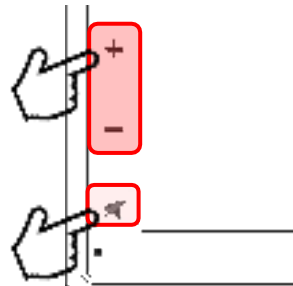


Volume

1. **Touch** once on either "+" / "-"
2. **Touch** and Hold for quicker operation

Mute

1. **Touch** to Mute

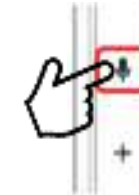


Power On /Standby

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

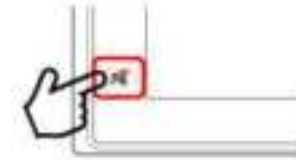


Apple CarPly or Android Auto must be active



Display Off

1. **Touch** and Hold Mute



Display On

1. **Touch** the display to reactive



Basic Product Operation

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.

Basic Product Operation

Product Setup (Date & Time)

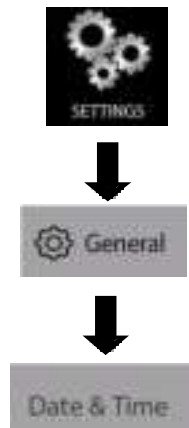
Setup Option A: Apple CarPlay Method

Connect your Apple® device using a Lightning® cable*. The CarPlay USB port must be used.

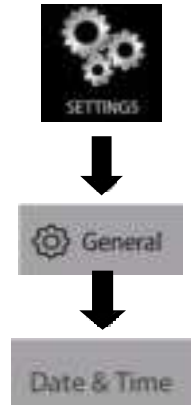
This will automatically setup the time and date.

User must set Time Zone manually.

Default is Pacific Time Zone



Setup Option B: Date and Time



Additional Setup see pg. 27

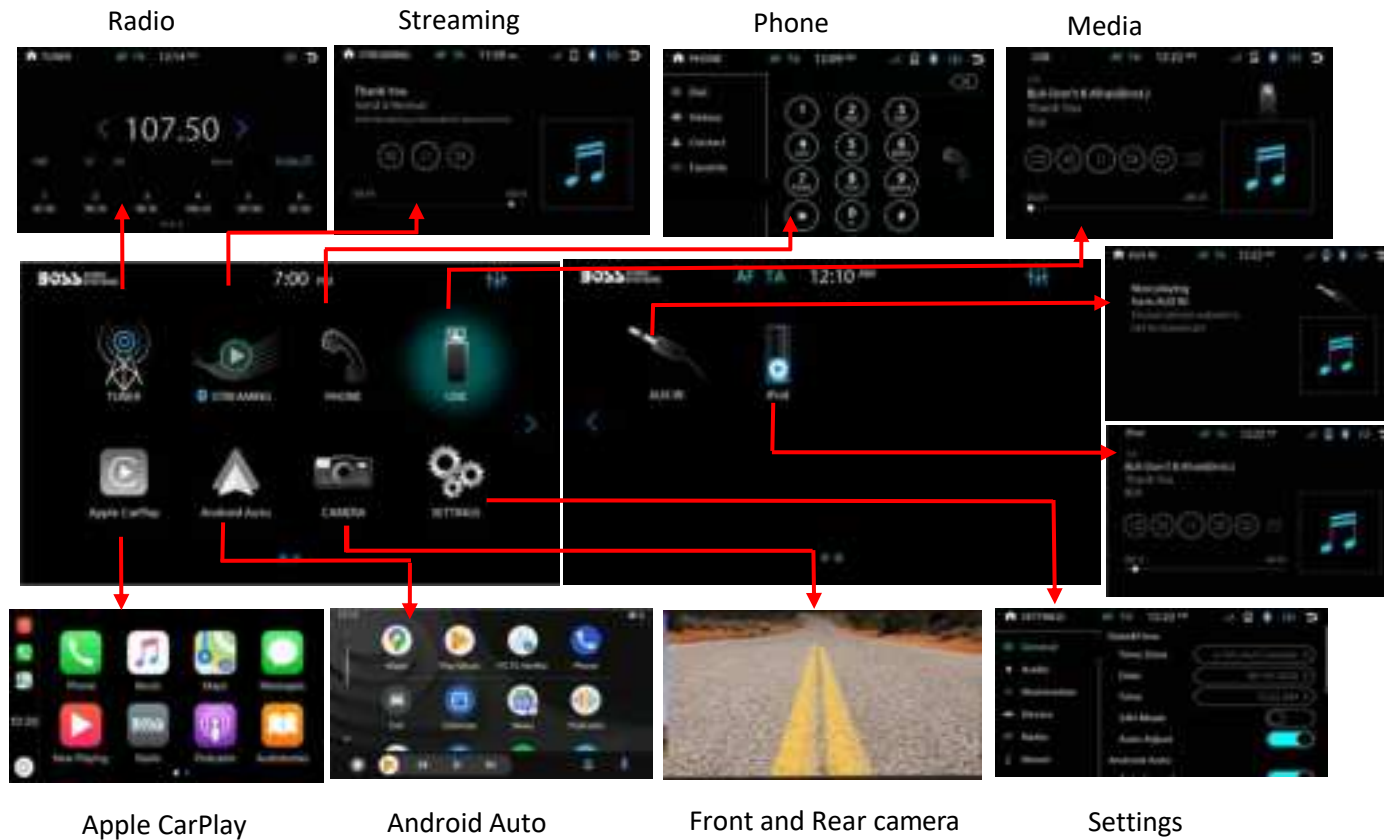
General > Language

Audio > EQ, Other Audio Settings

Display > Illumination, Brightness, LED

Basic Product Operation

Navigating the Menus



Apple CarPlay

Using Apple CarPlay

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>

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).

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

Touch



Radio

wireless connection

- 1.When connected to Bluetooth, CarPlay will be reminded to load.
- 2.The iPhone will load the CarPlay function.
- 3.On the display, the CarPlay will illuminate green, touch it to enter the CarPlay menu.

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:

Touch



Swipe



Dragging



Other gestures and controls might differ on each App.

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** 



NOTE

Only Apps with the  icon can be removed from CarPlay.

To **Disable** other Apps see **pg. 15**



How to Disable Apps

Using your iPhone:

Settings > Screen time > Content & Privacy Restrictions
> Allowed Apps > CarPlay



Wired and wireless Android Auto

Using Android Auto

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/>

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).

For other cautions and warnings see **pg. 9**

NOTE

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

WARNING

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/>

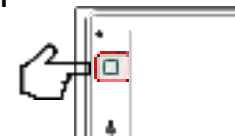
Updating Related Apps

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

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

Touch



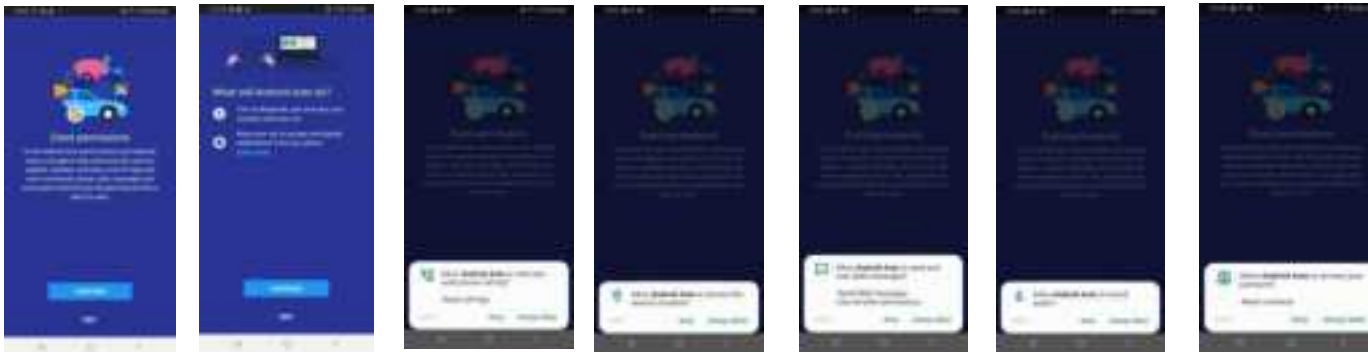
wireless connection

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

Android Auto

Using Android Auto

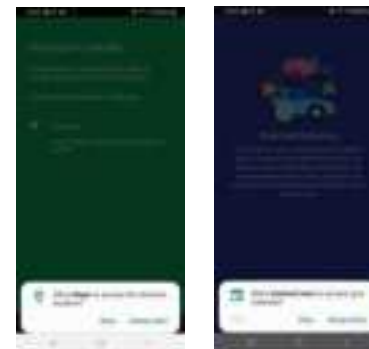
Android Auto Permissions



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



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.

CAUTION

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 BVCP9850W_XXXX**

iOS Devices: **Settings > Bluetooth**

Android Devices: **Settings > Connections > Bluetooth**

NOTE

XXXX is the data randomly generated by the unit, which meet the requirements of certification

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

Touch  to confirm

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

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 synchronized after downloading

Device Status

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



PHONE

Calling

Making & Receiving Calls

1. Dialing from the dial pad
 **Touch** to make call
3. Contacts
Touch the contact name
4. History
Choose the history call record

To end a call **Touch** 

To mute a call **Touch** 

5. 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 

Private Mode

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

Touch  to switch the mobile device

Touch  to return to hands-free mode

Searching Contacts

Contacts must be downloaded to search.

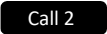
1. **Touch** 

Call Waiting

To accept another call:

Touch 

To toggle between calls:

Touch  

NOTE

Active calls will be illuminated green

To End a call, **Touch** 

Default Settings

Bluetooth Power : **ON**

Auto Connect: **ON**

Auto Answer: **OFF**

Auto Download Phone book: **OFF**

Device Name: BOSS AUDIO BVCP9850W_XXXX

For all settings see **pg. 26**

Bluetooth®

Audio

Audio Streaming

To play media through Bluetooth, the mobile device must be **Paired and Connected** to the BVCP9850W_XXXX, see **pg. 20**.

Touch



The music will play automatically.

Track Control

1. Play/Pause 
2. Track Fwd / Rev  

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

Touch



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 it 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

USB

USB Playback



Touch

The music will play automatically.

Audio & Video Control

1. Play/Pause
2. Track Fwd / Rev
3. Repeat List
4. Repeat File
5. Random

NOTE

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

Navigating Menu

Touch



To browse contents **Swipe**



To return to the current file playing,



Touch

Photos

1. Play/Pause
2. Fwd/Rev
3. Rotate

WARNING

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.

Tuner

FM/ AM

Controls

Touch



Tuning

Search

Touch and Hold < >

To search for station

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

Band



Swipe to quickly tune

EQ

Return

To return to the main interface

Touch



Auto Search

EQ

To change radio EQ

To touch



For all EQs, see **pg. 27**

Band

Touch **FM/AM** to switch

AUX IN/CAMERA

External Source

Playback (Audio Only)

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.

Front + Rear View

Rear and Front view camera can be displayed on demand.

Touch



To return to the Home screen

Touch



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

NOTE

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

Settings

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: **0dB**

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



Settings

General

Date & Time

Time Zone

Adjust to correctly display time

Default Setting: (GMT-05:00) Eastern Time (US)

Date

Touch 

Time

Touch 

24H Mode

Touch 

Auto Adjust



Auto Launch

Touch 

Android Auto

Touch 

Camera Settings

Camera Trigger

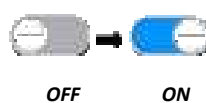
Trigger the front or rear camera or close

Touch < >

Rear Camera

Touch 

Front Camera

Touch 

Camera Power

Touch 

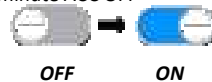
Rear or Front camera delay

Delay 1sec, 2sec, 3sec exit camera page

Touch < >

Radio off after 1min

Delay 1minute ACC OFF

Touch 

Default Setting: OFF

Retain ACC Power

Retain 1sec、2sec、3sec ACC OFF

Touch < >

System Language

Touch to change

English (Default) , Spanish

Wallpaper

Touch 

User can change the background

Factory Settings

restore settings to default:



CAUTION

It will restore all settings to factory defaults. All settings and presets will be cleared

Settings

Illumination

Device

Day Brightness

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

Touch < >

Gamma can be adjusted for both day and night settings.

LED Animation

Touch  ON OFF

Will cycle through all colors on LED touch buttons.

Default Setting: ON

LED Color

Touch  Adjust button lights in different colors

Illumination Default

To restore Illumination settings to default

Touch 

Will restore all display settings.

Bluetooth Device

Touch  Bluetooth device search

Apple CarPlay Device

Touch  Wireless Apple CarPlay device search

Bluetooth Setting

Bluetooth Power
Touch  ON OFF

Power On/Off Bluetooth

Default Setting: ON



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

Touch  ON OFF

Auto connect to the device when the product is powered ON

Default Setting: ON

Auto Answer

Touch  OFF ON

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

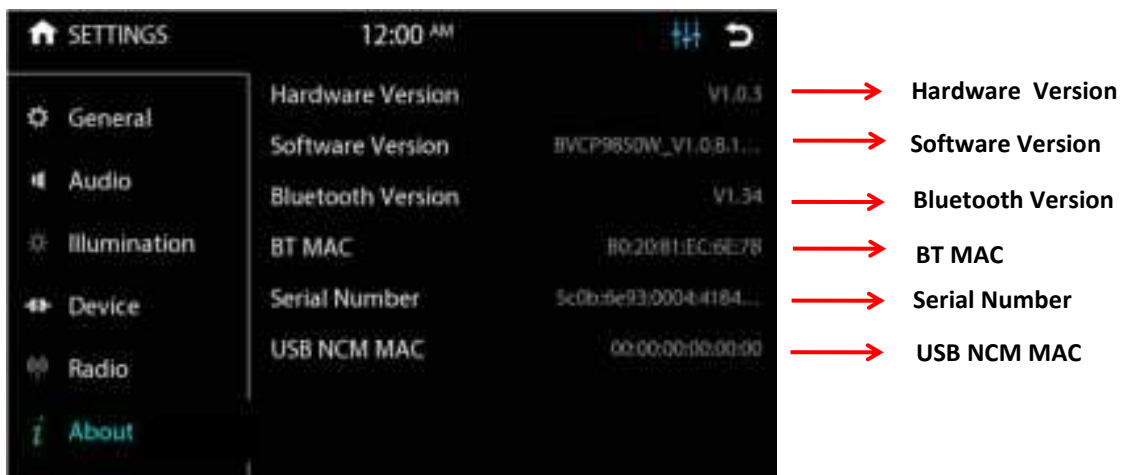
Settings

Device		Radio
Auto Download Phone Book Touch  Automatically downloads phone book Default Setting: OFF Manual Download Phone book Touch  Manual Delete Phone book Touch  Device Name Touch  Default name : BOSS AUDIO BVCP9850W_XXXX Rest wifi password: Touch 	Seek Quality FM/AM Touch  Adjust the sensitivity of both AM/FM bands Reset Touch  Will reset the seek sensitivity to back to default Region Touch  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 Touch  Default Setting: ON Allows data from the radio station to be displayed on the product.	RBDS RBDS stations will broadcast information to display AF (Alternative Frequency) Touch  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) Touch  The radio will automatically tune in to traffic information broadcasts while receiving FM broadcasts playing media. Default Setting: OFF Auto Preset Touch  Automatically search and preset stations

Settings

About

Displays the system information:



NOTE

Software version information depends on the software used for production

Troubleshooting

Issues	Cause	Solution
No Sound	Internal amplifier is off Product is muted External amplifiers Audio source	Go to Settings > Audio Touch the volume. Check the external amplifiers are on. 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 Antenna	Go to Settings > Radio > Sensitivity Adjust AM/FM Sensitivity Change the station Turn OFF AF and TA Turn OFF RBDS Antenna output wire isn't connected
Apple CarPlay/Android Auto will not start	Bad Lightning®/USB cable Locked device Not charged CarPlay/Android Auto frozen	Replace the cable Device needs to be unlocked Device needs to be powered ON for CarPlay/ Android Auto to function. Allow it to charge and power on. 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

BVCP9850W

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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.....	-4—158°F

Display

Screen Size.....	6.75"
Aspect Ratio.....	16 x 9
Resolution.....	480 x 800
Screen Type.....	TFT-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 Output.....	3 Pairs
Front.....	2V, Full-Range
Rear.....	2V, Full-Range
Sub (Mono).....	2V, LPF
Sub LPF.....	80 Hz, 120 Hz, 160 Hz @ 12dB/Oct
Sub Level.....	-8 - +8dB

Radio Tuner

Freq. Range.....	87.5 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
RBDS.....	AF, TA
S/N Ratio (FM).....	60 dB (Analog Broadcast)
Sensitivity.....	10 dB
S/N Ratio (AM).....	45 dB (Analog Broadcast)
Sensitivity.....	30 dB

Apple CarPlay

iPhone Support.....	iPhone 5 or Newer
iOS.....	iOS 7.1 or Newer

Android Auto

Supported.....	(8.0) Lollipop or Newer
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USB

USB Spec.....	USB 2.0 (High-Speed)
USB Current Output.....	2A (Max)
File System.....	FAT32
Audio Playback.....	WAV, MP3, WMA, APE, FLAC, OGG
Video Playback.....	AVI, OGM, MKV, MOV, WMV
Picture Playback.....	JPG, PNG, BMP

Flash Drive Support.....	up to 128GB
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*Not all listed compressed files guaranteed to play due to different creation methods or file contents.

Bluetooth®

Version.....	v3.0+E.D.R.
Audio Code.....	S.B.C.
Profiles.....	
A2DP v1.2, AVRCP v1.4, GATT v1.0, HFP v1.5, PBAP v1.0	
Output Power.....	Class 2
Up to 33 ft (10m), Free-range	