

Legend CP100

smartphone receiver



OWNER'S MANUAL

INTRODUCTION

THANK YOU for purchasing the JBL® CP100 smartphone receiver. So we can better serve you should you require warranty service, please retain your original sales receipt and register your receiver online at www.jbl.com.

CONTENTS

3. Warnings
4. Mounting
5. Front-panel buttons and rear-panel connections
6. Setting up
7. Home screen
8. Settings menu
9. Bluetooth pairing
10. Changing the date and time
11. Changing the system language
12. Using Bluetooth
13. Playing files from USB drives
14. Using Apple CarPlay®
15. Using Android Auto™
16. Listening to AM/FM radio
17. Specifications
18. Troubleshooting

WHAT'S IN THE BOX

- JBL Legend CP100 smartphone receiver
- Microphone
- Wiring harness
- 4 mounting screws
- Quick-start guide
- Warranty card

WARNINGS

Please read the following warnings carefully before operating your receiver.

DO NOT ENGAGE WITH FEATURES THAT PREVENT YOU FROM DRIVING YOUR VEHICLE SAFELY

If a function requires extended attention, use it only after coming to a complete stop in a safe location in order to prevent a collision.

KEEP VIEWING OF THE DISPLAY TO A MINIMUM

Excessive interaction with the display can keep you from keeping your eyes on the road and may result in a collision.

MAINTAIN A SAFE VOLUME LEVEL THAT LETS YOU HEAR OUTSIDE NOISES WHILE DRIVING.

High volume levels that prevent you from hearing sounds like emergency vehicle sirens or warning signals (such as at train crossings) are dangerous and might cause a collision. Listening at high volume can also result in hearing loss.

DO NOT DISASSEMBLE OR ALTER THE LEGEND CP100

Alteration to the receiver may result in an accident, fire, or electric shock.

FOR USE ONLY IN VEHICLES WITH A 12-VOLT CHARGING SYSTEM AND NEGATIVE GROUND

Use in vehicles with anything other than a 12-volt charging system could result in accident, fire, or electric shock. If you are not sure if your vehicle uses a 12-volt system, check with your dealer.

WHEN REPLACING FUSES, USE THE CORRECT AMPERE RATING

Using incorrectly rated fuses could result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS IN THE VEHICLE

Installing the receiver incorrectly can cause heat to build up in the vehicle and could result in fire.

KEEP SMALL OBJECTS OUT OF THE REACH OF CHILDREN

Swallowing objects such as screws may result in serious injury. If swallowed, dial 911 immediately.

DISCONTINUE USE IMMEDIATELY IF A PROBLEM APPEARS

Continued use if a problem occurs could cause personal injury or damage to the

product. Return it to an authorized JBL dealer for repair.

PRODUCT CLEANING

Use a soft dry cloth to clean the screen periodically. For severe stains, use a cloth lightly dampened with water only. Use of stronger cleaning agents could damage the screen.

TEMPERATURE

The temperature inside the vehicle should be between +45°C (+113°F) and 0°C (+32°F) before you turn the unit on.

MAINTENANCE

If you encounter problems, do not attempt to repair the unit yourself. Return it to your JBL dealer for service.

INSTALLATION LOCATION

The Legend CP100 is designed to fit in most double-DIN dash openings. Make sure not to install it in a location that is subject to excessive direct sun and heat, high humidity or water, excessive dust, or excessive vibrations

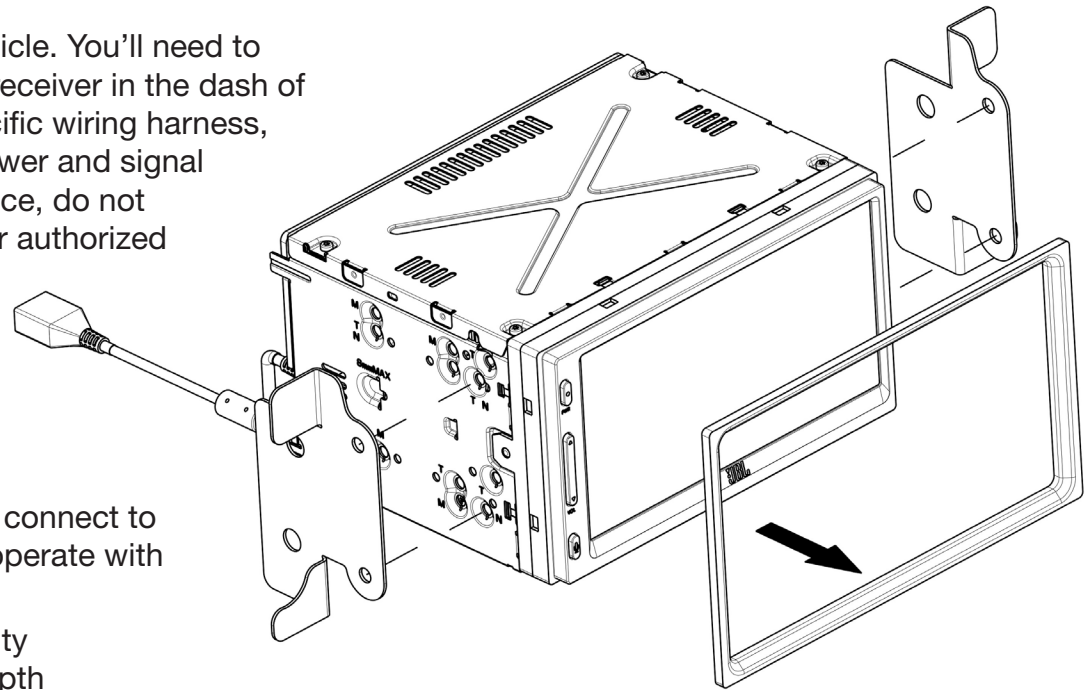
Mounting

Installing the Legend CP100 will vary from vehicle to vehicle. You'll need to purchase or fabricate a mounting bracket to secure the receiver in the dash of your vehicle. You'll also need to purchase a vehicle-specific wiring harness, or splice the receiver's wires directly to your vehicle's power and signal wires. If you do not have the necessary tools or experience, do not attempt the installation yourself. Instead, please ask your authorized JBL car audio dealer about professional installation.

⚠️ INSTALLATION WARNINGS AND TIPS

IMPORTANT: Disconnect the vehicle's negative (-) battery terminal before beginning the installation.

- Always wear protective eyewear when using tools.
- In addition to power and signal connections, you must connect to your parking brake lead, as certain functions will only operate with the parking brake engaged.
- Check the height and depth of your vehicle's dash cavity (see page 15 for receiver chassis dimensions). Take depth of any extra cables into consideration.
- When making electrical connections, make sure they are secure and properly insulated.

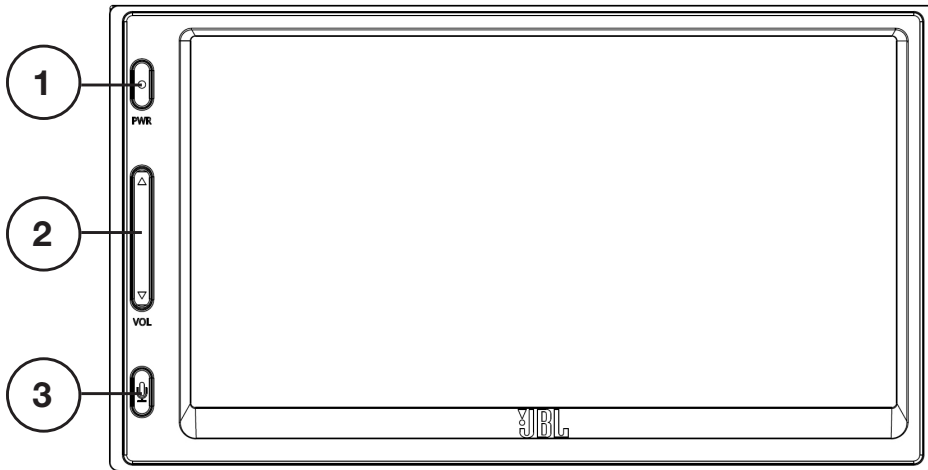


In many vehicles, you'll use the factory brackets to secure the receiver in the dash. Installation methods vary from vehicle to vehicle.

Wiring connection guide

Function	Wire color	Function	Wire color	Function	Wire color	Function	Wire color
ACC power	Red	Parking brake	Light green	Front left speaker +	White	Rear left speaker +	Dark green
Constant power	Yellow	Reverse signal	Violet/white	Front left speaker -	White/black	Rear left speaker -	Green/black
Ground	Black	Optional rear camera	Yellow RCA	Front right speaker +	Gray	Rear right speaker +	Violet
12v out	Yellow/black			Front right speaker -	Gray/black	Rear right speaker -	Violet/black

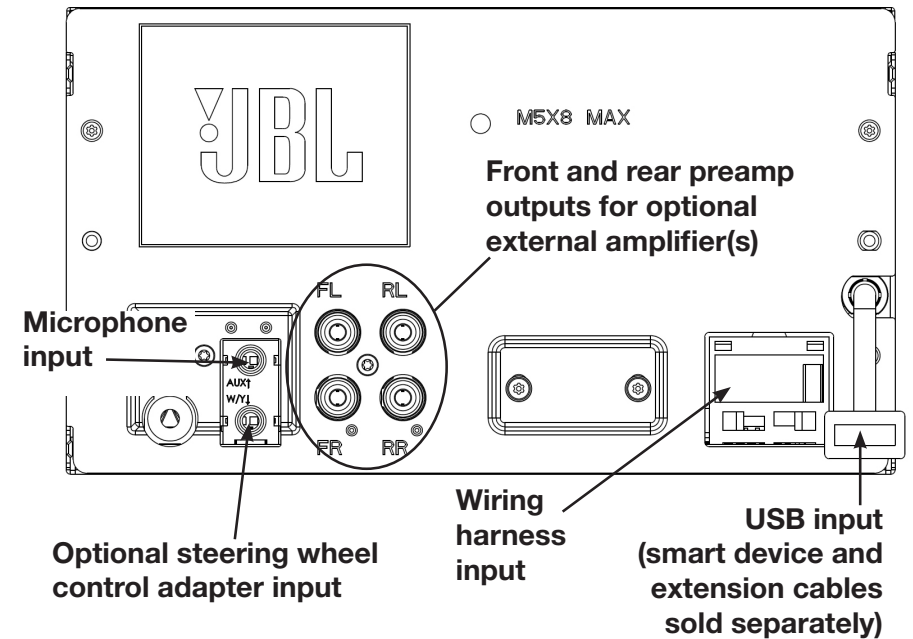
Front-panel buttons



Your Legend CP100 features only three hard buttons on the front panel; all the rest of the receiver's functions are controlled using the touchscreen or, with select applications, with your voice.

- 1. Power button** turns the receiver on and off
- 2. Volume button** raises and lowers the volume level
- 3. Push-to-talk button** lets you engage Android Auto™ and Apple CarPlay® voice control functions

Rear panel connections

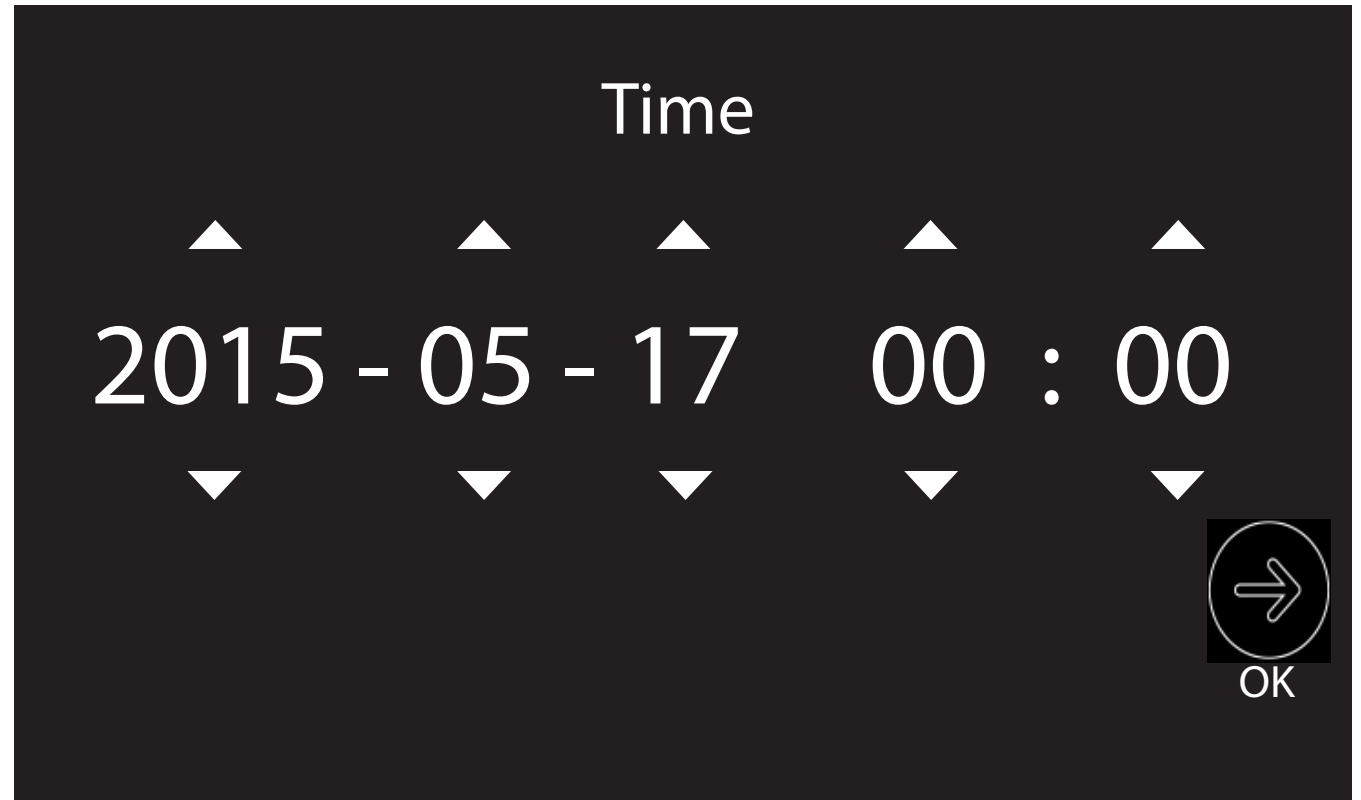


- 1. Microphone** required for Bluetooth calls and voice commands with Apple CarPlay or Android Auto
- 2. Steering wheel control adapter (sold separately)** lets you control the receiver with your car's steering wheel controls
- 3. Preamp outputs** let you add external amplifiers for more power
- 4. Wiring harness** where you plug in the receiver's power and signal wires
- 5. USB input** for plugging in smart devices or a USB drive

Setting up






After installation (or if you've disconnected and reconnected your car's battery), you'll first need to program the date and time by tapping the arrows on the screen.




When you've finished programming both, you can tap the "OK" arrow in the lower right corner to proceed to the home screen.

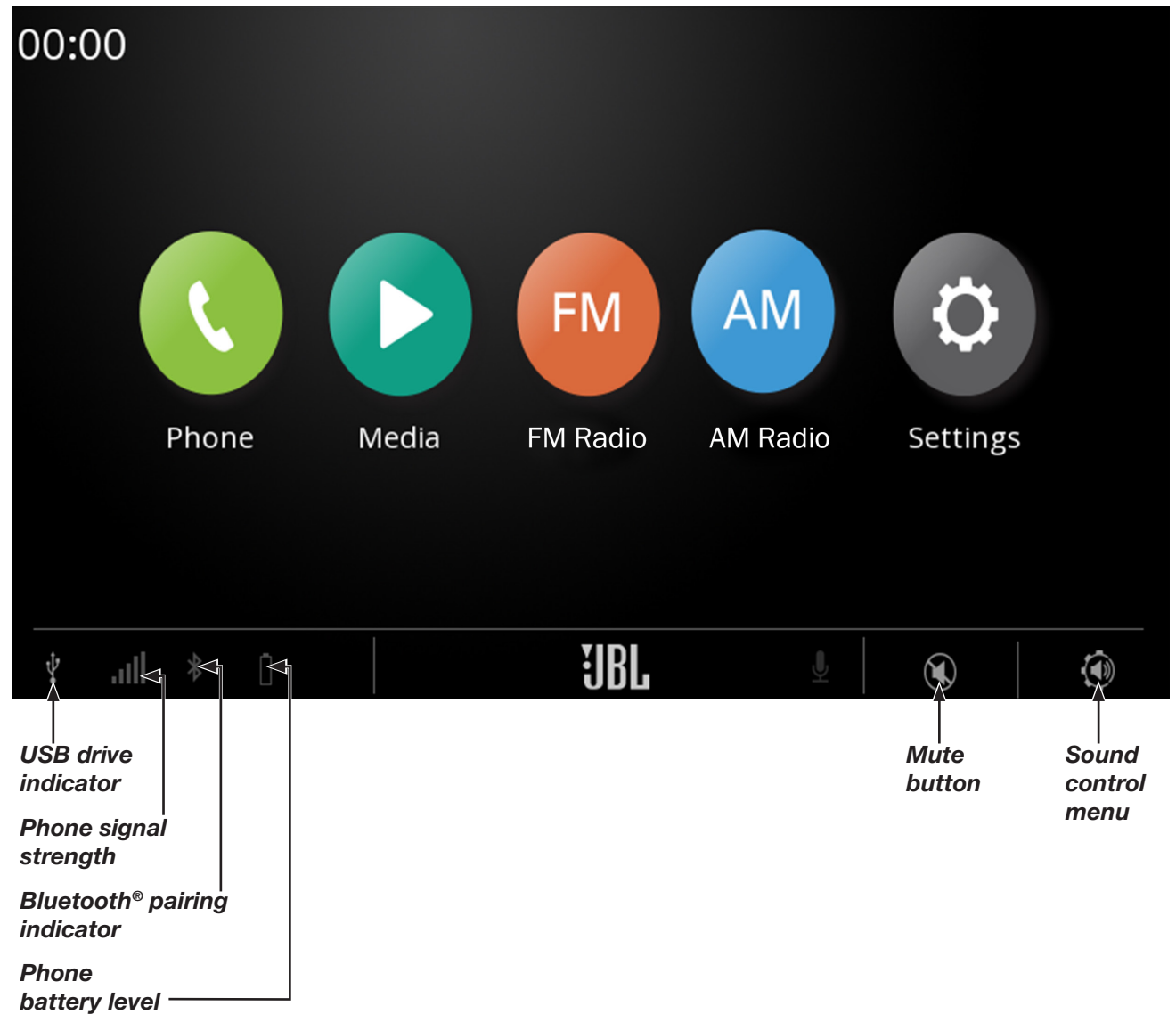


Home screen

The home screen is your base of operations. From it, you can tap the icons on the screen to select:

-  **Phone** to make and receive hands-free phone calls
-  **Media** to play MP3 files from USB, or engage Apple CarPlay® or Android Auto™ from your compatible phone*
-  **FM** to listen to FM radio broadcasts
-  **AM** to listen to AM radio broadcasts
-  **Settings** to adjust system settings

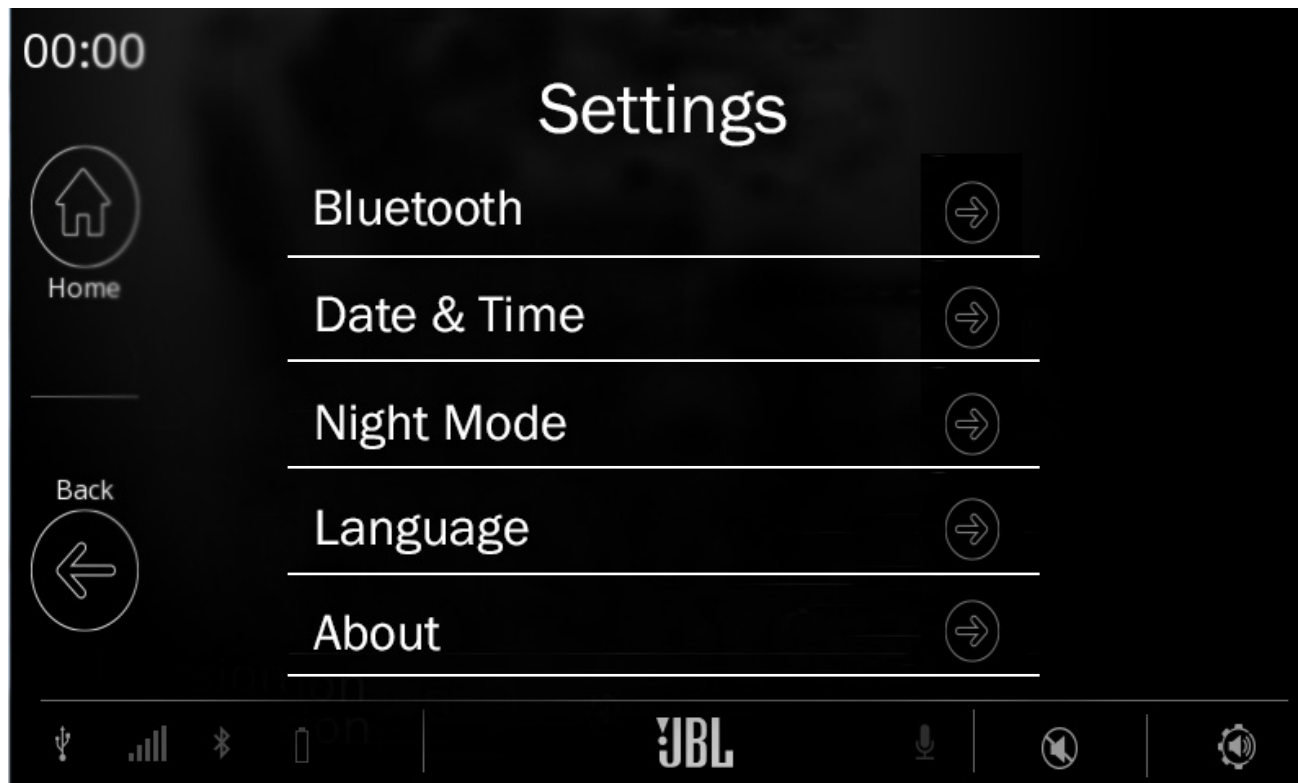
-  ***Note:** the Media button will change to **USB** when no device or drive is connected to the CP100
-  It will change to the Apple CarPlay icon when a compatible iPhone is connected to the USB input
-  It will also change to the Android Auto icon when a compatible Android phone is connected to the USB input





Settings

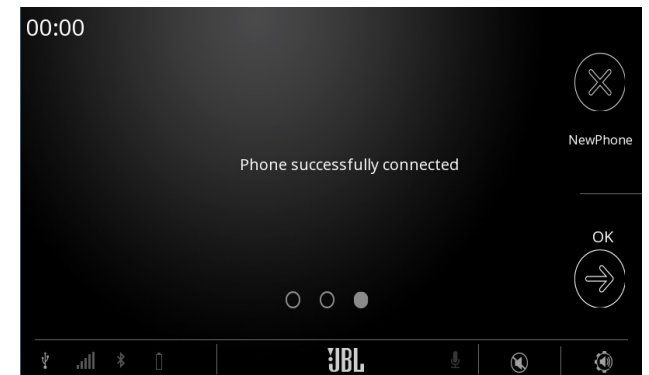
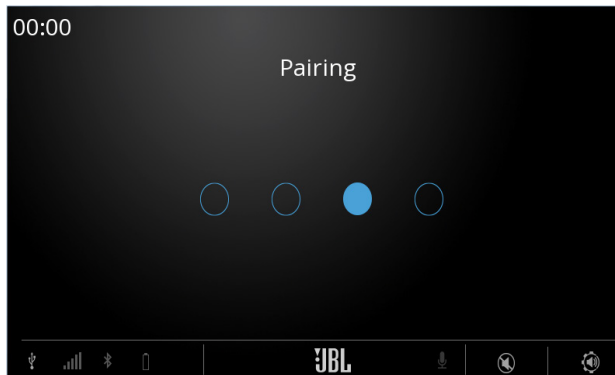
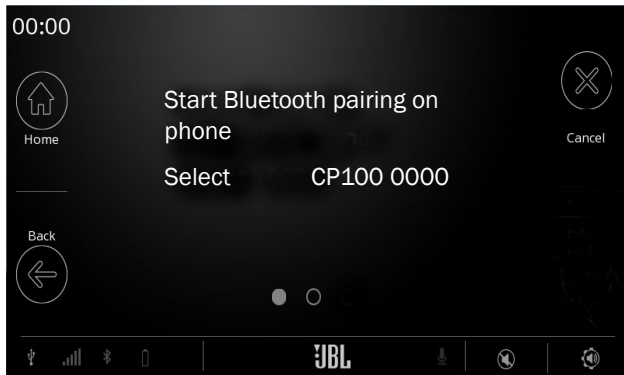
Tap “Settings” on the home screen to connect to your Bluetooth devices, change the date/time, activate day or night mode, change languages, and check the software version.



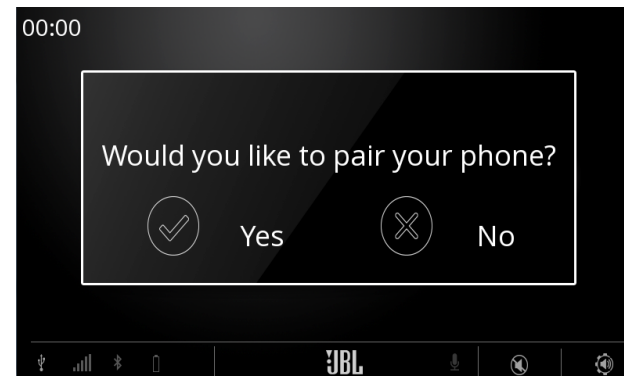


Bluetooth pairing

From the Settings menu, tap **Phone Pairing**. “Start Bluetooth pairing on phone” will appear on the CP100’s screen, along with a pairing code. From your phone’s Bluetooth menu, select the CP100, confirm the code, and allow your phone to pair. The CP100 will then indicate that you have paired successfully.



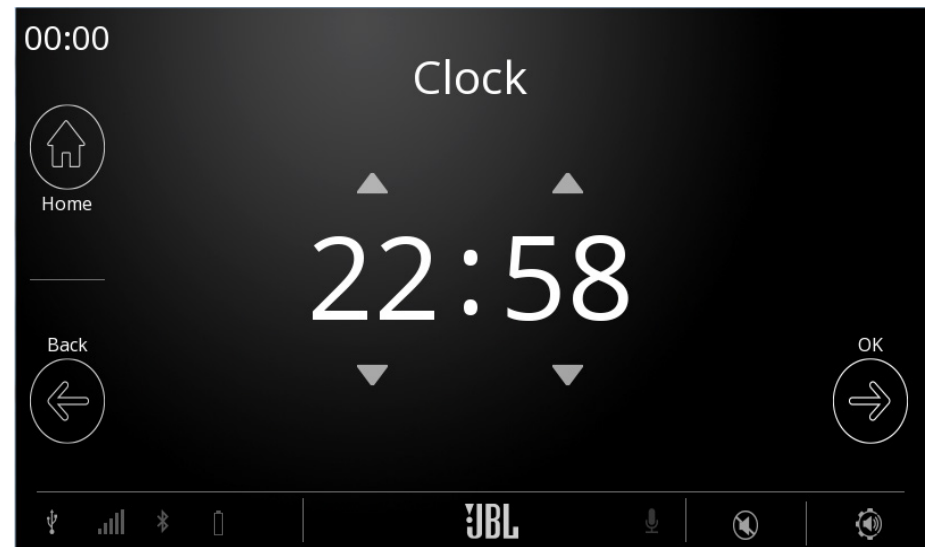
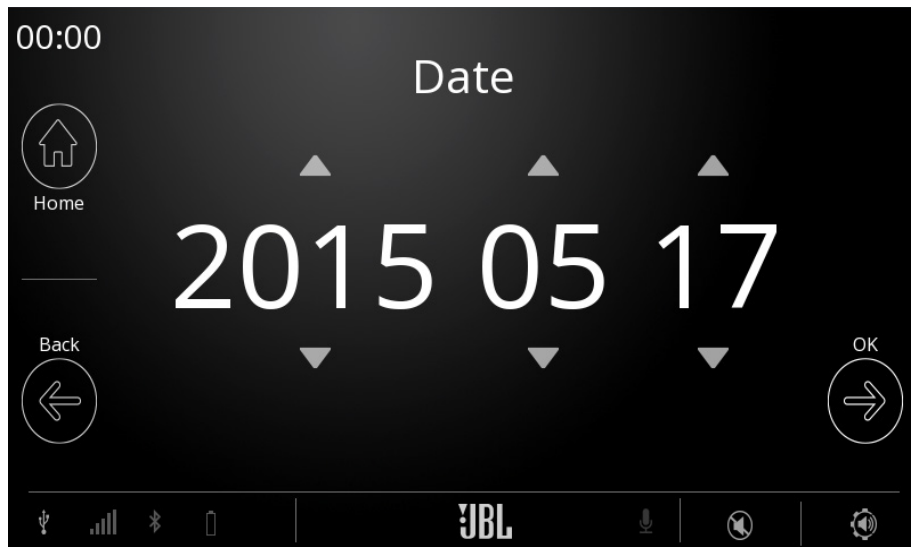
The CP100 will save the profiles of several phones you’ve paired with it. To reconnect a phone that had previously been paired, tap **Profiles**, then tap the name of the phone in the **Profile List**. Finally, tap “Yes” when prompted by the CP100.





Changing the date and time

To change the date and time, tap **Date & Time** in the Settings menu. You'll then be able to choose **Date** and **Time**. To change each field, tap the up and down arrows above and below the numerals. When you're finished, tap the **Home** button.





Changing the system language

To change the system language, tap **Language** in the Settings menu. You'll then be able to choose **English**, **Spanish**, or **French**.

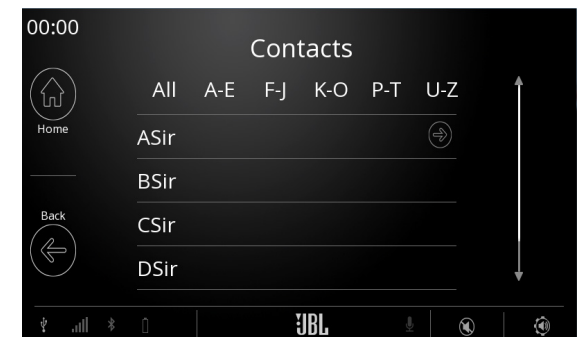
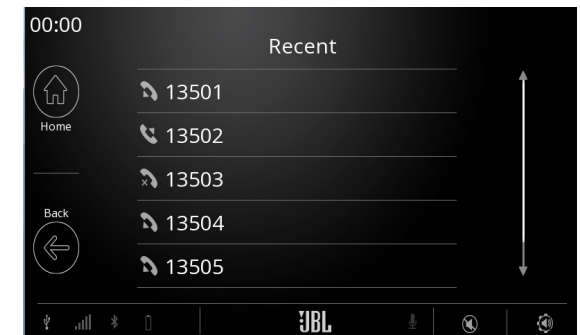
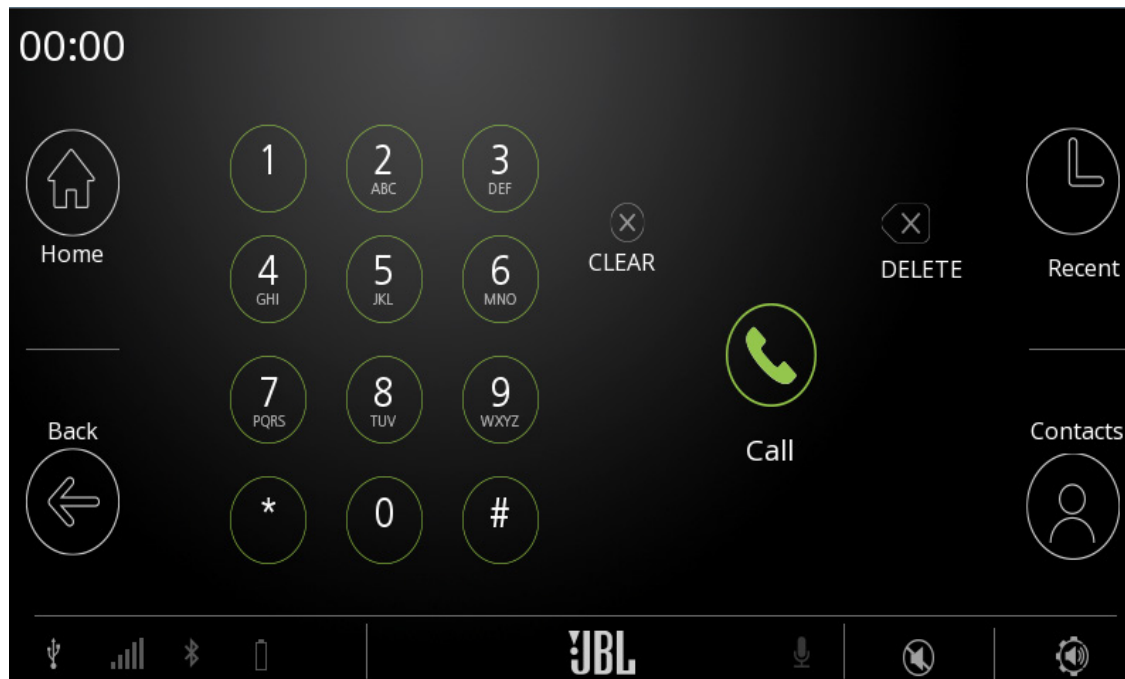
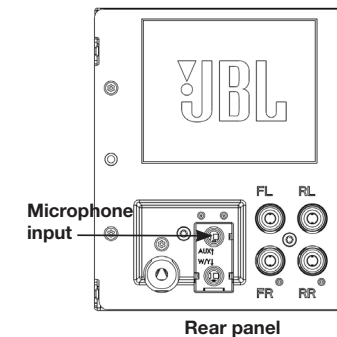




Using Bluetooth for phone calling

To use Bluetooth, make sure your phone is paired with the Legend CP100, and that the microphone is plugged into the input when you install the receiver. Incoming calls will cause the music to mute. Tap the green button to answer, and the red button to reject. You'll hear your callers over your speakers, and they'll be able to hear you.

To control your phone with the Legend CP100, tap the phone menu on the home screen. You can then dial directly using the keypad, pull up **Recent** calls, and choose **Contacts** from your phone book.

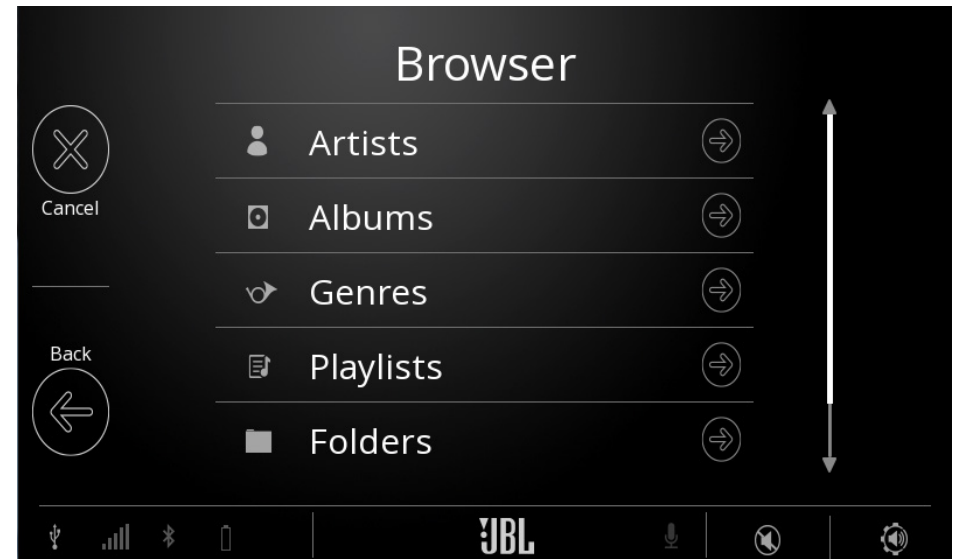
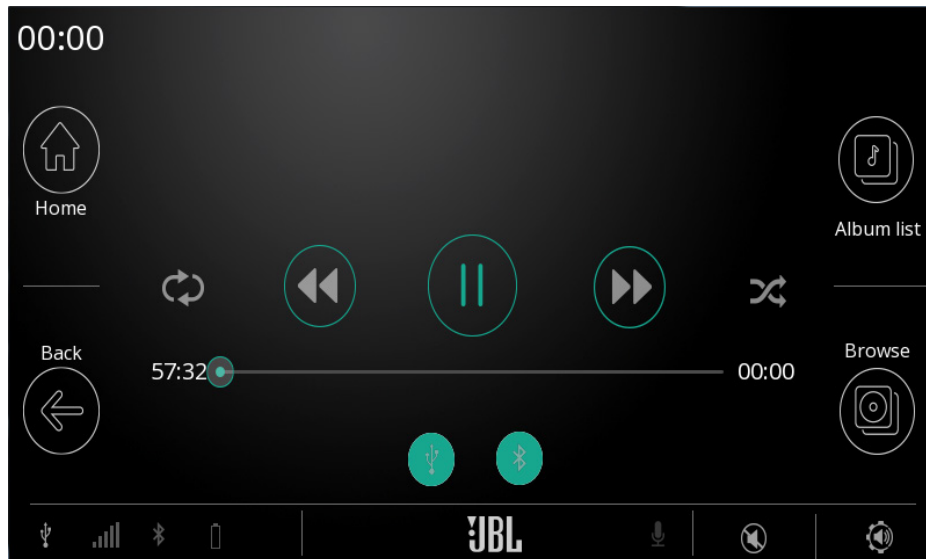
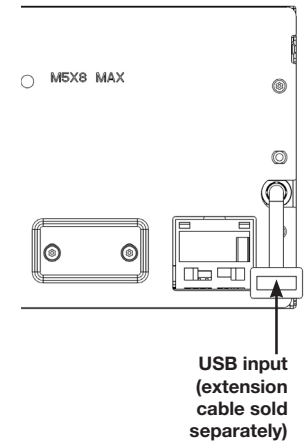


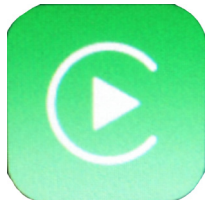


Playing files from USB drives

To play music you've stored on a thumb drive, connect the drive to the USB input and tap the USB icon on the home screen. The playback screen (below, left) allows you to do the following:

- Tap the center button to play and pause.
- Tap the double-arrow buttons to track up and down.
- Repeat tracks and shuffle the contents of the drive by tapping the buttons to the left and right of the track up/down buttons.
- Tap the **Album list** button to browse the albums on your device.
- Tap the Browse button to enter the drive browser (below, right), where you can search the contents of your drive for artists, albums, genres, playlists, and folders.

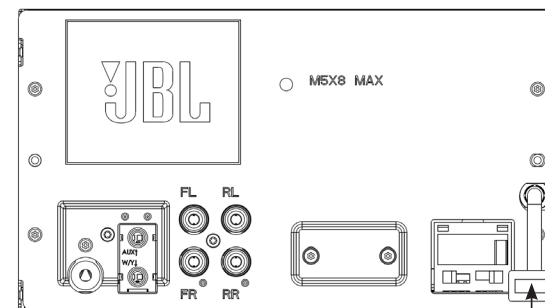




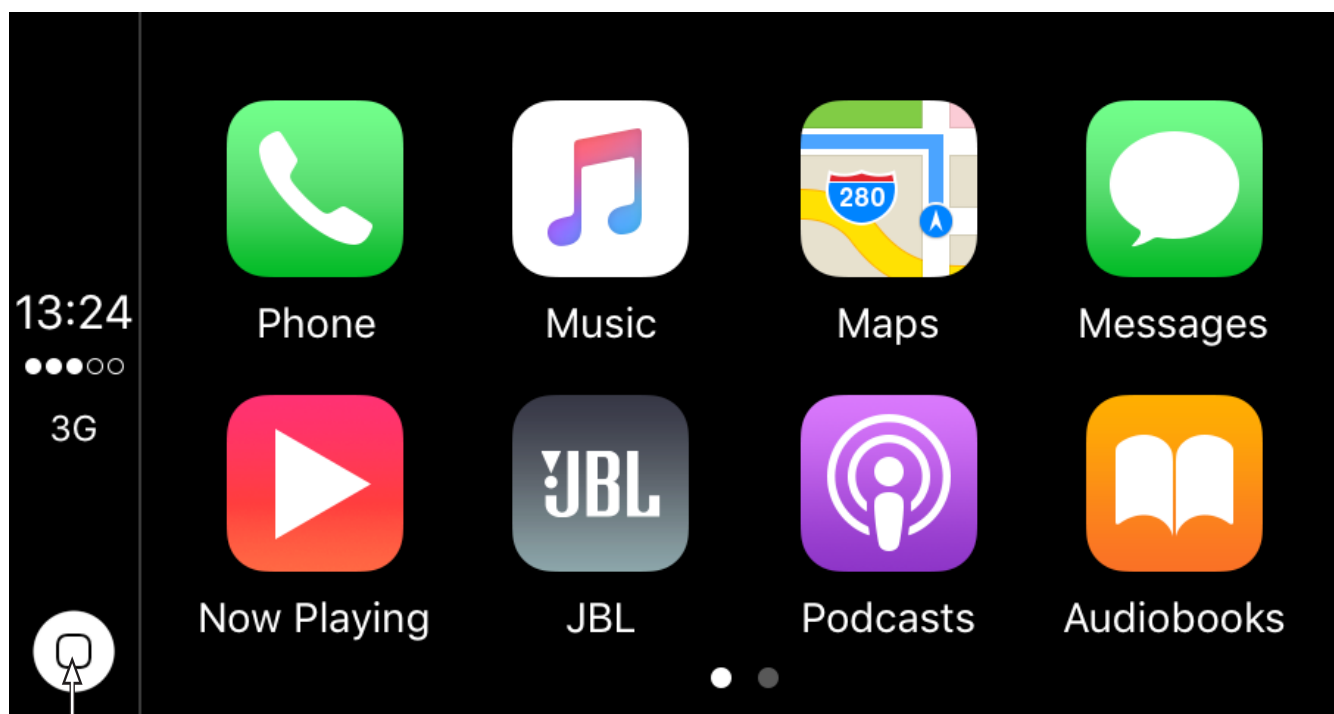
Using Apple CarPlay™

To engage Apple CarPlay, the easier way to use your iPhone in the car, connect your compatible iPhone to the USB input using its Lightning-to-USB™ cable. The Apple CarPlay icon will automatically appear on screen; tap it to enter Apple CarPlay menu screen

Tap the icon of the app you want to use, such as Music, Maps, Messages, Podcasts, Audiobooks, or select audio apps. Press and hold the Apple button at the bottom left or the receiver's microphone button to engage Siri® for voice control. Swipe left and right to scroll the menu screen. Tap the JBL icon to return to the CP100 home screen.



USB input
(iPhone and
extension cables
sold separately)



Press and hold this button to engage Siri for voice control.

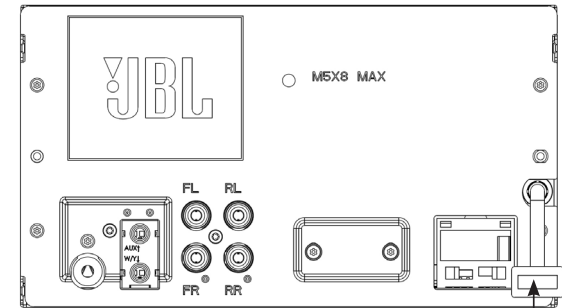
Learn more about
Apple CarPlay at
apple.com



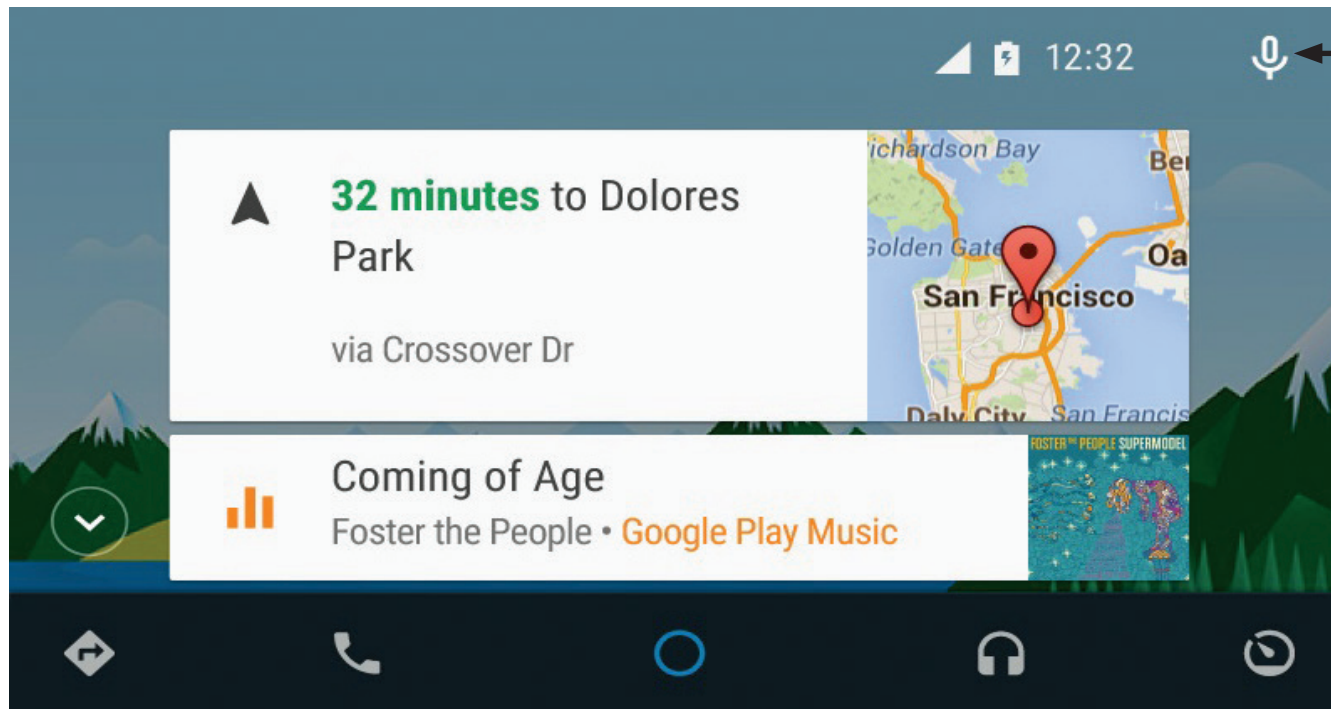
Using Android Auto™

To use Android Auto for streamlined control over your compatible Android device, connect it to the Legend CP100 USB input with its USB cable; the Android Auto icon will automatically appear on screen. Tap it to enter the Android Auto home screen

Use the buttons at the bottom of the screen to use your phone's navigation app, play music, and make calls. Tap the microphone icon at the upper right of the screen to activate Google Voice™ for hands-free control.



USB input
(Android and
extension cables
sold separately)



Press and hold this button
to engage Google Voice
for hands-free control

Learn more about
Android Auto and
see if your phone
is compatible at
android.com/auto

Tap these buttons to launch your navigation app, make phone calls, play music, and return to the JBL home screen.

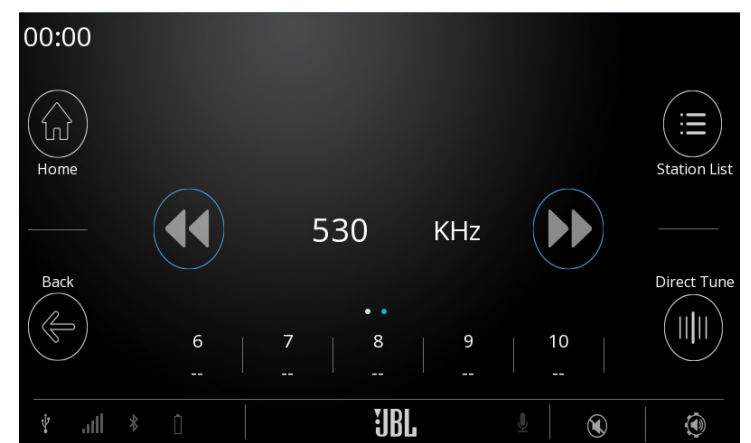
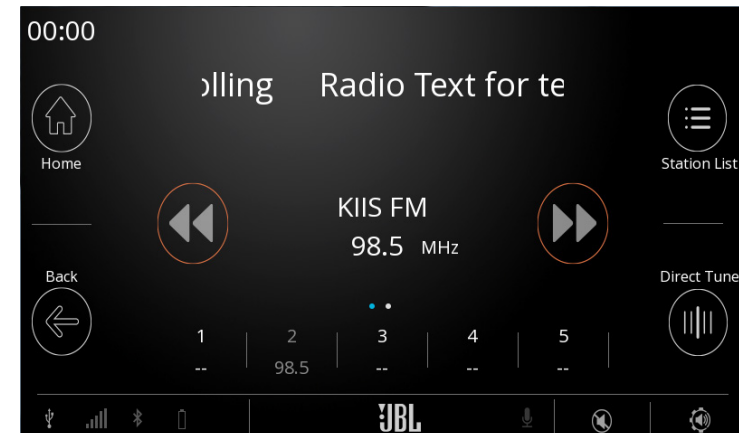


Listening to FM/AM radio

To listen to FM or AM radio, tap the FM or AM icon on the home screen. You'll then be able to find stations by tapping the left and right double arrow keys (below, right) or direct tuning. Press the arrow keys once for manual tuning; press and hold for seek tuning. To enter a station directly, tap the "Direct Tune" button.



You can also set up to 10 FM and 10 AM presets. To set one, press and hold a preset button until the station's frequency appears. When you're listening to a station, tap the "Station List" button to pull up all of your presets and select the one you want to hear.



Specifications

Display	
Size	6.75"
LCD type	TFT active matrix
Pixels	1,152,000 [800 x 480 x 3 (RGB)]
Illumination	LED

Power	
General power requirement	14.4V DC (11–16V allowable)
Operating Temperature	-20°C to 70°C (-4°F to 158°F)
Power Output	20W RMS x4 (Primary amplifier ratings per CEA-2006 standard. Power output measured at 4 Ohms and < 10% THD+N.)
S/N ratio	107 dBa (reference: 1W into 4 ohms)

Audio Output Level	
Front, rear preamp outputs	2V/10k ohms (max)

FM tuner	
Frequency range	87.7 – 107.9 MHz
Sensitivity	11 dBf (0.8 uV/75 ohms)
Signal-to-noise ratio	60 dB

AM tuner	
Tuning	530 – 1,170 kHz
Sensitivity	25 uV/20 dB

USB	
USB Standard	USB 1.1/2.0
Max Current Supply	1.0 A
USB Class	MSC (Mass Storage Class)
File System	FAT 16/32, NTFS FAT 16/32, NTFS
File Playback	MP3

Bluetooth	
Version	Bluetooth 3.0
Output Power	+4 dBm Max. (Power class 2)

Rear-view camera input	Composite video
-------------------------------	-----------------

Chassis	
Width	178mm (7")
Height	100mm (3.94")
Depth	148.7mm (5.85")
Weight	1.05kg (2.32 lbs.)

Troubleshooting

Problem	Possible cause(s)	Possible solution(s)
No function or display	Vehicle's ignition is in the off position.	The receiver will not function with the vehicle's ignition off; turn the key to the "on" position, or start the vehicle.
	Improper power/ground wire connections.	Verify power/ground wire connections.
	Blown fuse.	Check the fuse on the back panel of the receiver; replace with a fuse with the same rating, if necessary.
	Internal malfunction due to problem such as interference, noise, or electrical overload.	Turn the ignition key off, and then set to "on" again.
No sound or distorted sound	Incorrect setting of volume, balance, or fader controls.	Check and readjust settings as necessary.
	Connections are not properly or securely made.	Ensure that all wiring connections are firm and secure.
Display not working	Temperature in the vehicle is too low.	Increase the vehicle's interior temperature to operation temperature range.
Unable to receive radio stations	No antenna, or fault in the antenna cable.	Make sure the antenna is properly connected; replace the antenna or cable if damaged.
Unable to find stations in seek mode	Antenna may not be grounded or connected properly.	Check your antenna connections; make sure the antenna is properly grounded to the vehicle chassis.
	The antenna may not be the proper length.	Make sure the antenna is fully extended, if adjustable; if antenna is broken, replace with a new one.

Troubleshooting

Problem	Possible cause(s)	Possible solution(s)
Broadcast distorted by noise or interference	The antenna is not the proper length.	Extend the antenna fully, if possible; replace if broken.
	The antenna is poorly grounded.	Check your antenna connections; make sure the antenna is properly grounded to the vehicle chassis.
	The signal originated at the station is weak and noisy.	Tune in another station.
Content from a connected USB device or smartphone will not play	A smartphone that is not supported by the receiver is connected.	<ul style="list-style-type: none"> • Connect a compatible smartphone. • Reset the iPhone.
	A USB device, such as a thumb drive, that is not supported by the receiver is connected.	Connect another USB device.
	Communication interruption between device and receiver.	<ul style="list-style-type: none"> • Turn the ignition key off, and then set to “on” again. • Disconnect then reconnect the USB device or smartphone.
	Smartphone software version is not compatible with the receiver.	Update the smartphone’s software version.