

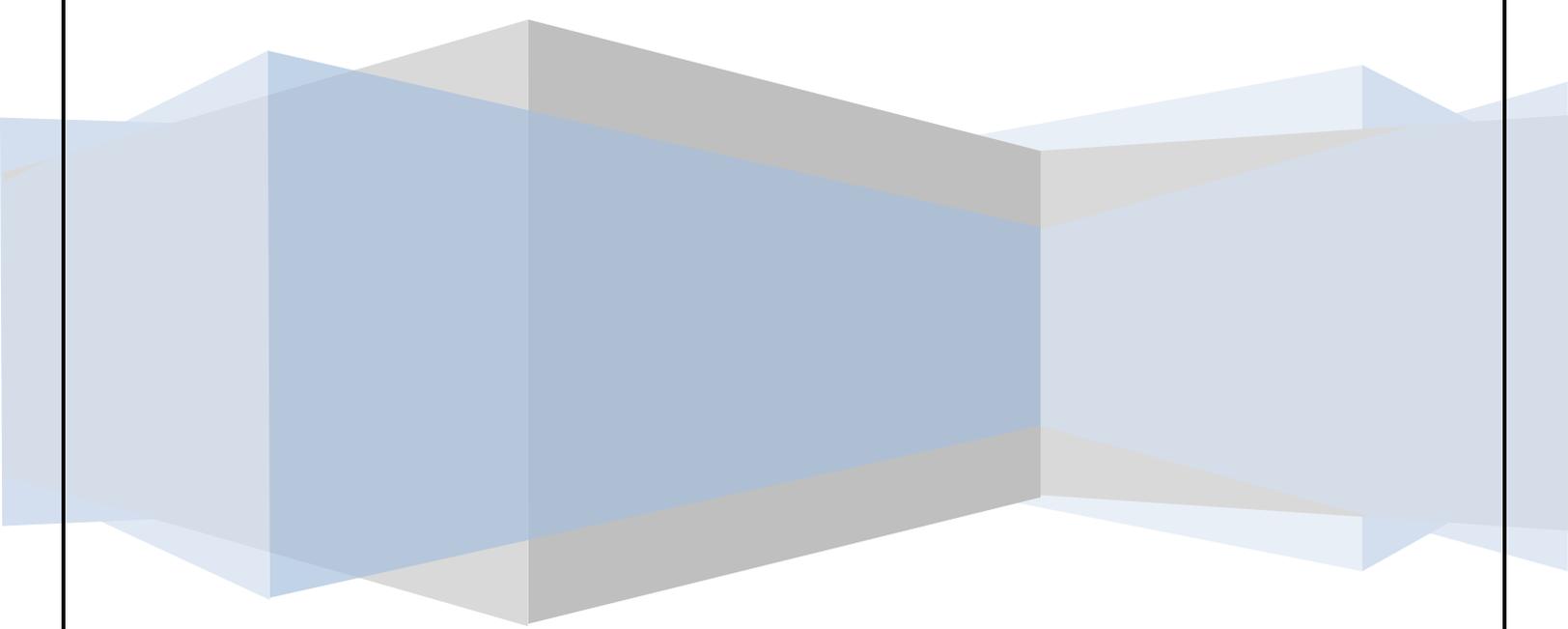
COSTAR Technologies

www.costartech.com

BLUESTAR II

Installation and Operation manual

Revision 3.0



Welcome

Welcome to COSTAR's connected world of Bluetooth personal area wireless networking. The COSTAR BLUESTAR II wireless hands-free car kit makes wireless connection simple and quick.

The advanced, sophisticated BLUESTAR II wireless hands-free car kit offers these features:

- Seamless, wireless hands-free audio through Bluetooth link
- Digital audio interface with high quality, full duplex hands free speech
- Uses voice dialing in your phone (if available)
- Entertainment mute – automatically mutes radio during calls
- Noise reduction and acoustic echo cancellation
- Integrated volume control
- Ignition sense – continue an active call after the car is turned off
- Compatible with Bluetooth 1.5 and backwards compatible with Bluetooth 1.2 devices – supports Hands-free profile (v.1.5), as well as A2DP profile for streaming audio.

Note: The use of wireless devices and their accessories may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these products.

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Safety and General Information

IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION. READ THIS INFORMATION BEFORE USING YOUR DEVICE.

Users are not permitted to make changes or modify the device in any way. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. See 47 CFR Sec. 15.21.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. See 47 CFR Sec. 15.19(3).

Electromagnetic Interference/Compatibility

Note: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility.

Facilities

To avoid electromagnetic interference and/or compatibility conflicts, turn off your device in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.

Medical Devices – Hearing Aids

Some devices may interfere with some hearing aids. In the event of such interference, you may want to consult with your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Industry Canada Notice to Users

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 the device Ref IC RSS 210 Sec. 5.11. The term "IC:" before the certification/registration number only signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment. See Ref IC Self-Marking 6(f) and RSP-100 Sec. 4.

FCC Notice to Users

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 a 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 and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to 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.

Installing the Hands-free Kit

Guidelines for Installation and Connection

- Only Qualified personnel should install this car kit. If necessary, contact with vehicle manufacturer for air bag information specific to the vehicle.

Caution: An air bag inflates with great force. DO NOT place objects, including communication equipment, in the area over the air bag or in the air bag deployment area. If the communication equipment is improperly installed and the air bag inflates, serious injury could occur.

- Mount components securely on strong surfaces to prevent shifting that could cause injury or interfere with safe vehicle operation. Always use the supplied mounting hardware.
- Mounted components and attached wires or cables must not interfere with seating or leg space.
- Route cables so they are protected from pinching, sharp edges, and crushing. Keep all in-line connectors easily accessible.
- This car kit is intended for use in 12 volt negative ground systems only. The car kit draws less than 100 mA. Confirm that the vehicle's electrical system can supply this current.

Installation Procedure

Locate OnStar¹ equipment

Using information found in your service manual, locate the OnStar VCIM (Vehicle Communications Interface Module). Since the car kit utilizes the same connections as the OnStar equipment, it is most convenient to locate car kit where the OnStar equipment is located.

Disconnect the white connectors labeled J1 and J2 on the OnStar VCIM. If J3 and J4 are not populated, you may disconnect the coaxial antenna leads and completely remove the onstar VCIM. If J4 is populated, you should leave it installed in the VCIM to insure that the GMLAN data bus is connected to the rest of the vehicles electronics.

Installing the BLUESTAR II

For optimal Bluetooth performance, mount the unit so that the side ventilation slots are away from the mounting surface. This will help maintain ventilation, and improve bluetooth range.

The location **MUST NOT** interfere with the vehicle's air bag deployment.

¹ OnStar is a registered trademark of General Motors Corporation

System testing and final assembly

Prior to replacing any panels that were removed during installation of the car kit, it is recommended to validate functionality of the car kit by following the directions listed below.

After successful testing, replace all panels following the instructions found in the service manual for your vehicle.

Using Your Car Kit

The User Interface

The user interface enables you to set up and use the BLUESTAR Hands-free car kit. It utilizes the OnStar buttons and LED indicator found on the rear view mirror or on the dash.



Linking Your Car Kit and Phone

Before you can use this car kit, you must link it with your phone. You establish a Bluetooth link between your car kit and phone with a *paired link*.

When you set up a paired link, the BLUESTAR remembers the phone's MAC address. Once the car kit and phone are paired, your car kit automatically connects to your phone every time you start your vehicle or power up the car kit. The BLUESTAR can remember up to 4 phones, and will try to link to them in the order in which they were originally linked.

Initial Pairing

With the car kit and phone in close proximity:

1. Perform a device discovery from the phone. For details on device discovery for your phone, refer to the phone's user guide. Your phone scans all Bluetooth Handsfree devices around it, and displays a list of the devices it finds.
2. Select BLUESTAR from the list of devices.
3. Enter the passkey **0000** when prompted, and press the OK key.
4. Follow the phone's display prompts to confirm the connection.

Note: The BLUESTAR must be awake (ignition on) and not already linked to a phone to pair.

Automatic Connection

After initial pairing, every time you start your vehicle, your phone and car kit will be automatically connected (if your phone's relevant settings are not changed and it is in power on mode). When the wireless connection is established, the LED indicator remains solid GREEN.

If your phone is powered off when you start your vehicle, the Bluetooth connection may not be automatically established when you turn on your phone.

To manually establish the connection:

1. Turn on the phone.
2. Press the Multi-Function button. The GREEN led will begin to flash, and the car kit will attempt to connect to your phone. If the wireless connection is established, the GREEN led will stop flashing and remain lit. If the connection is not established in 1 minute, press the Multi-Function button again to restart the paging.

Placing a Call with the Car Kit

You can place a call with the car kit in these ways:

- Dial a number from the phone.
- Press the Voice Dial Button and follow the phone's instructions for voice dialing.
- Press and hold the Voice Dial button for three seconds to redial the last number.

In all cases, you must first link your car kit and phone as described in “Linking Your Car Kit and Phone” on page 9.

When connected, the call is hands-free.

Answering a Call with the Car Kit

While the phone is ringing, answer the call by pressing the Talk button. The indicator LED will be RED during a call.

You can reject the call by pressing the Red Mute / Cancel button.

Note: Performance may vary on different phones. For example, for some phones (such as Ericsson’s T68), rejecting an incoming call can break the Bluetooth link.

Using Features While on a Call

Note: To use the functions described below, a Bluetooth link must be established between the car kit and your phone. Most phones automatically activate a Bluetooth connection when you place a call.

Transferring a Call

From the car kit to your phone:

During a call, press and hold the Multi-Function Button for more than three seconds. (Most phones prompt you to accept the transfer before completing the transfer.)

From your phone to the car kit:

During a call, press and release the Multi-Function button. (Some phones require you to press and hold the Multi-Function button twice. See the user's guide for your phone for more information.)

Muting and Unmuting a Call

To mute the microphone during a call, press the Microphone Mute button. The indication LED will alternate between GREEN and RED and the other party will not be able to hear you.

To un-mute the call, press the Microphone Mute button again. The indication LED will go back to a steady GREEN.

Receiving a Second Call

If you receive a call while you already have a call in progress, you can end the current call or place it on hold while you answer the second call.

Note: Your car kit supports second call notification with phones that support the Handsfree profile. To see what your phone supports, please consult your phone's user guide.

- To reject the second call, press and hold the Microphone Mute button for three seconds.

- To end the current call and answer the second call, press the Multi-Function button for one second.
- To put the current call on hold and answer the second call, hold the Multi-Function button for three seconds.

To switch between the active and held calls, hold the Multi-Function button for three seconds. To end a call on hold, press the Voice Dial button for one second.

Note: Call waiting is a subscription-dependent feature. Contact your network service provider for more information.

Using Three-Way Calling

Note: Your car kit supports three-way calling features with phones that support the Handsfree profile. To see what your phone supports, please consult your phone's user guide.

Three-way calling is a subscription-dependent feature. Contact your network service provider for more information.

If a call is in progress and another call is incoming or on hold, press the Mute buttons for three seconds to create a three-way conference call.

Note: Some phones may require you to press the Voice Dial Button and Volume Down buttons together for three seconds twice.

Tip: You can reject the second incoming call by holding the Microphone Mute button for three seconds.

Volume Control

Press the volume buttons on the steering wheel to increase and decrease the volume.

You can also adjust the volume remotely by pressing the phone's volume buttons, if your phone supports this feature.

Using the Car Kit When the Ignition is Off

When your car ignition is off, you can connect the car kit to the last phone it used by pressing the Multi-Function button for 1 second.

The indication LED will flash GREEN as the car kit tries to connect to the phone. When the car kit connects, the indication LED will remain GREEN.

If the car kit does not connect in 1 minute, or connects but does not detect any sound for 1 hour, it shuts off.

Disconnecting the Car Kit from your Phone

To disconnect the car kit from your phone, press and hold the Multi-Function Button for more than three seconds.

The car kit and phone are automatically disconnected when you turn off the vehicle, unless you are on an active call.

Troubleshooting

You cannot pair your phone with the car kit.

Turn the phone off and then back on. (You may need to remove the phone's battery.) Try pairing the phone and car kit again.

Verify that your phone supports Bluetooth capability

Calling Features Quick Reference

State	Action	Indication
Off	IGN is removed and no call is active	None
Pairing	Press the Multi-Function button for 3 seconds.	Fast Alternating GREEN / RED
Paging (Attempting connection)	Press the Multi-Function button for 1 second.	Flashing GREEN
Standby and Not Connected	Car kit is able to connect to a previously paired phone	Brief Green Flash every 2 seconds
Connected	Car kit is connected to a phone	Solid GREEN
Call in Progress	Car kit is connected to a phone and audio is available	Solid RED
Mute Call	Press Microphone Mute button for 1 second.	Fast Alternating GREEN / RED

State	Action	Indication
UnMute Call	Press Microphone Mute button for 1 second.	Solid GREEN
Last Number Dialed *	Car kit is connected to a phone. Press Voice Dial button for three seconds.	Flash RED
Reject Incoming Call *	Car kit is connected to a phone. Press Mute/Cancel button.	Flash RED
Voice Recognition Activation	Car kit is connected to a phone. Press Voice Dial Button for 1 second.	Flash RED
Disconnect from Phone	Car kit is connected to a phone. Press Multi-Function Button for three seconds.	Brief Green Flash every 2 seconds

State	Action	Indication
Answer Call	Car kit is connected to a phone. Press Voice Dial button for 1 second.	Solid RED
End Call	During a call, press Voice Dial button for 1 second.	Solid GREEN
Transfer Call to Phone *	During a call, press Multi-Function Button for 1 second.	Brief Green Flash every 2 seconds
Volume Up	During a call, press and release volume up button on steering wheel.	Tone indicates volume increase.

State	Action	Indication
Volume Down	During a call, press and release volume down button on steering wheel.	Tone indicates volume decrease.
Place Call on Hold *	One call is in progress and the other is alerting. Press Multi-Function button for 1 second.	Slow Alternating GREEN / RED
Answer incoming call and end current call. *	One call is in progress and the other is alerting. Press Multi-Function button for 3 seconds.	Solid RED

State	Action	Indication
Toggle Held Calls *	One call is in progress and the other is on hold. Press Multi-Function button for one second.	Slow Alternating GREEN / RED
Create Three Way Call *	One call is in progress and the other is on hold. Press Mute Button for 3 seconds	Slow Alternating GREEN / RED
End Held Call *	One call is in progress and the other is on hold. Press Mute Button for 1 second.	Solid RED
Reject 2nd Incoming call *	One call is in progress and the other is alerting. Press Mute button for 1 seconds.	Solid RED

* Requires Handsfree Profile Connection

COSTAR Limited 1 Year Warranty for Accessories

Coverage: COSTAR Technologies warrants this accessory against defects in materials and workmanship under normal consumer use for one year from the date of purchase. COSTAR, at its option, will at no charge repair, replace or refund the purchase price of this accessory should it not conform to this warranty. This limited warranty is a consumer's exclusive remedy, extends only to the first consumer purchaser, is not transferable and is valid only on Accessories purchased by consumers in the United States or Canada.

Exclusions:

Normal Wear and Tear: Periodic maintenance, repair and replacement of parts due to normal wear and tear are excluded from coverage.

Batteries: Only batteries whose fully charged capacity falls below 80% of their rated capacity and batteries that leak are covered by this limited warranty.

Miscellaneous: This warranty does NOT cover defects or damage that results from: (a) improper operation, storage, misuse or abuse, accident, or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the Accessory resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand dirt or the like, extreme heat, or food; (c) use of the accessory to abnormal usage or conditions; (d) service, installation, alteration, or modification in any way by someone other than COSTAR, and (e) other acts which are not the fault of COSTAR.

Obtaining Service: To obtain service information, please e-mail techsupport@COSTARtech.com and you will receive instructions on how to ship the accessory at your expense, to a COSTAR service center.

What Other Limitations are there?

ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, OTHERWISE THE REPAIR, REPLACEMENT, OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL COSTAR BE LIABLE, WHETHER IN CONTRACT OR IN TORT (INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE ACCESSORY, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA, SOFTWARE OR APPLICATIONS OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE ACCESSORY OR ANY PRODUCT USED WITH THE ACCESSORY TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

Some states and jurisdictions do not allow the limitation on exclusion of incidental or consequential damages, or limitation on the length of the implied warranty, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or from one jurisdiction to another.