

BTC003
Solar Bluetooth Car Kit
User manual

- **Brief introduction.....1**
 - 1. Bluetooth wireless communication technology.....1
 - 2. About BTC003.....1
- **Getting started.....2**
 - 1. Overview.....2
 - 2. Charging the battery.....2
 - 3. Installing BTC003.....3
- **Basic operation.....4**
 - 1. Turning BTC003 on/off.....4
 - 2. Pairing with a Bluetooth cell phone.....4
 - 3. Phonebook function.....5
 - 4. Call records.....6
 - 5. Firmware upgrades.....7
 - 6. Making a call with BTC003.....7
 - 7. Call waiting.....8
 - 8. LCD indicator.....8
 - 9. Indication tone.....9
- **Care and maintenance.....9**
- **FAQs.....10**
- **Specifications.....10**

Welcome to use this solar Bluetooth hands-free car kit, BTC003. Please read this

user manual carefully before using it.

■ **Brief introduction**

1. Bluetooth wireless communication technology

Bluetooth is a standard of close range radio-communication technology that was drawn up by Ericsson, IBM, Intel, Nokia and Toshiba. With Bluetooth technology, we can achieve the highest transmission rate among cell phones, computers, printers, PDAs and other devices. The max transmission range of class 2 is 10 meters while the max transmit range of class 1 can reach up to 100 meters.

2. About BTC003

BTC003 is a solar-powered Bluetooth hands-free car kit. It has the following features:

- ◆ Answer call, end call and reject call
- ◆ Redial last number
- ◆ Voice-dial
- ◆ Volume control
- ◆ Transfer Call between cell phone and BTC003 during conversation
- ◆ Microphone mute
- ◆ LCD showing caller ID
- ◆ Caller ID memory
- ◆ Built-in phonebook
- ◆ Charging by solar power
- ◆ Full duplex DSP for echo cancellation and noise reduction
- ◆ Call waiting
- ◆ USB port for firmware upgrades (Connect BTC003 to your computer to upgrade BTC003's firmware)


■ **Getting started**

1. Overview



Front of main body

Back of main body

1	LCD screen—Display current status
2	Volume+ button—Increase volume, see last phone number
3	A/T button—Phonebook transfer
4	USB port—Charging port
5	Loudspeaker
6	 button—Multi-functioned button (MFB)
7	Volume- button—Reduce volume, see next phone number
8	Microphone
9	ON/OFF button—Turn on/off, enter pairing mode
10	Solar panel

2. Charging the battery

First use—The hands-free car kit has a built-in rechargeable lithium battery, you must completely charge it before first use.

Low power—When the LCD screen displays a low power icon and a “DU” sound can be heard every 15 seconds, you have to recharge the battery of BTC003.

Using the USB car charger

Please connect BTC003 to car cigarette lighter socket using USB car charger. It will take about 2 hours to charge the battery fully.

Using solar power

Please stick BTC003 on the car windshield. When the car is in sunlight, BTC003 will be able to use the sunlight to charge the battery. It will take about 28 hours to charge the battery completely.

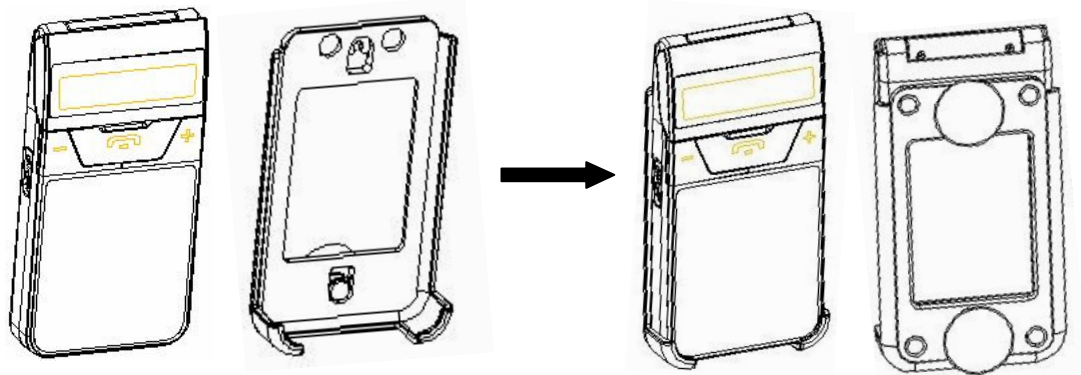
While charging is in progress, the battery icon on the LCD will blink. It will stop blinking after charging has completed.

Remark: If you want to charge BTC003 using solar power, you must turn on BTC003 first.

3. Installing BTC003

1) Installing BTC003 on the windshield mount

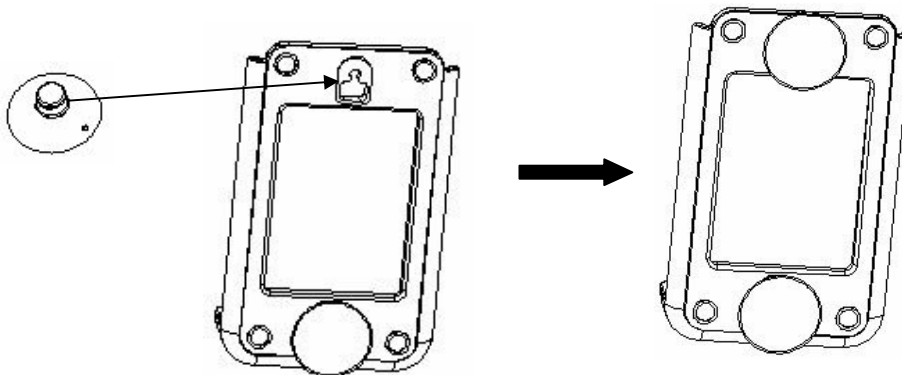
As the following picture shows:



- a) Install BTC003 on the windshield mount;
- b) Let both magnets on the mount snap to the iron sheet on the back of BTC003's body to securely install it on the windshield mount.

2) Installing the suction cups

As the following picture shows, install the suction cups to the suction cups hole on the back of the windshield mount.



3) Attach the windshield mount to the car's windshield

Attach the windshield mount to the car's windshield. Press on the windshield mount to exhaust the air so it is properly secured to the windshield.

■ Basic operation

1. Turning the BTC003 on/off

Function	Operation	LCD indicator	Indication tone
Turning on BTC003	Press ON/OFF button for about 2 seconds	BTC003	4 rising tones
Turning off BTC003	Press ON/OFF button for 3~5 seconds	GOOD BYE	4 falling tones
Entering pairing mode	When turning off, press ON/OFF button for 6~7 seconds	Pairing...	2 lowering "DU-DU" tones
Reset and power off	Press ON/OFF button and volume+ button simultaneously to reset BTC003		None

2. Pairing with a Bluetooth cell phone

You have to pair the hands-free car kit with Bluetooth cell phone before first using it. Please make sure your cell phone is Bluetooth-enabled. Specific pairing steps may vary with different cell phones. Please refer to your cell phone's user manual for further information. The pairing steps are as follows:



- 1) Keep BTC003 and your Bluetooth cell phone within 1 meter when pairing;
- 2) Make sure BTC003 is turned off, otherwise turn it off;
- 3) Press and hold the MFB button for about 6~7 seconds, until the LCD screen displays "Pairing...". Now BTC003 entered pairing mode;
- 4) Turn on your cell phone's Bluetooth function and search for Bluetooth devices. After the search is completed, select "BTC003" from the Bluetooth device list;
- 5) According to indication, enter password or PIN No:"0000", and press "Yes" or "confirm";
- 6) After successful pairing, select "BTC003" from the Bluetooth device list, and press "connect". After successful connecting, the LCD screen will display the name of cell phone.

Remarks:

- ◆ Pairing mode will last 3 minutes. BTC003 will switch to standby mode automatically if it can't pair with any device after 3 minutes. Standby mode will remain activated until BTC003 runs out of power. If you want to continue to pair BTC003 with a Bluetooth device, please switch off BTC003 first and re-pair according to steps 1~6 mentioned above.
- ◆ BTC003 can remember 8 paired devices. When the number of paired devices exceeds 8, previous ones will be replaced starting with the first.
- ◆ When BTC003 is turned on but doesn't connect to any device, you can press MFB to connect BTC003 to the last connected device.
- ◆ Every time you turn on BTC003, it will connect to the last connected device automatically. If you want to pair it with other devices, please turn off the Bluetooth function of the last connected devices first, and then pair BTC003 with new device according to steps 1~6 mentioned above.

3. Phonebook function

BTC003 has a built-in phonebook. You can transfer the phonebook from your cell phone to BTC003, which will make it very convenient for you to make calls with BTC003.

- 1) Transferring the phonebook from a cell phone via AT command: Please make sure BTC003 and the cell phone are connected to each other and press and hold **A/T** button for about 3 seconds to start transfer. The LCD screen will display "SYNC PB" and display the searching phone number during the transfer. If there are no phone numbers in searching position, the LCD screen will display "Downloading". After the transfer is completed, the LCD screen will display "SYNC DONE". If the transfer failed, the LCD screen will display "SYNC FAIL".
- 2) Transferring phone numbers via OPP (Object Push Profile): When BTC003 and your cell phone are connected, you can send contact details from your cell phone to BTC003. Please refer to your cell phone's user manual for further information.
- 3) Displaying phonebook: Short press **A/T** button once to display names and telephone numbers. When the name is Chinese, just the phone number will be displayed. Press **volume+** button or **volume-** button to see the next / previous phone number.
- 4) Erasing the phonebook: When BTC003 is in standby mode and connected to a device, short press **A/T** button once to enter the phonebook. The LCD screen will now display a phone number. If you press the  button for about 5 seconds, the LCD screen will display "Erase all". If you want to erase all phone numbers, short press  button once and the LCD screen will display "Erase OK". The phonebook has been deleted.
- 5) Erasing a single phone number: Short press **A/T** button to enter the phonebook. The LCD screen will display a phone number now. By pressing

volume+ button and **volume-** button you can search for the phone number you want to erase and by pressing **volume+** and **volume-** button simultaneously the number will be deleted. The LCD screen now displays "Erase OK".


Remarks:

- ◆ When the phone number being transferred already has been sent to BTC003, the LCD screen will display "Same Number" and prompt "SYNC DONE" while exiting the transfer. When you use BTC003 to draw all phone numbers from a cell phone, the LCD screen will display "Same Number" when encountering an already copied number and move on with the next one.

- ◆ BTC003's phonebook can store 400 phone numbers at most. When transferring the phonebook from a cell phone via AT command, BTC003 can only search 400 phone numbers stored in the cell phone and 200 phone numbers stored in the SIM card.
- ◆ When transferring the phonebook from the cell phone via AT command, an HFP connection will be used.

4. Call records

BTC003 can store the last 20 call records, including received calls and missed calls.

- 1) Checking call records: When BTC003 is in standby mode and connect to a device, short press **volume+** button or **volume-** button to check the call records. The LCD screen will display corresponding phone number and contact name, simply press  button to dial the phone number.
- 2) Erasing call records: When the LCD screen displays a phone number, press **volume+** button and **volume-** button simultaneously to erase the current phone number. After deletion the LCD screen will display "Erase OK".








5. Firmware upgrades

Connect BTC003 to your computer by USB cable and press and hold Volume+ button and Volume- button simultaneously for 10 seconds. The LCD screen will display "Upgrading". You can now upgrade BTC003's firmware.

Remarks:

- 1) BTC003 can only enter upgrade mode when it is in standby mode;
- 2) If your computer does not have related drivers installed, the system will prompt you to install related drivers when BTC003 enters upgrade mode.

6. Making a call with BTC003

Function	Operation	Indication tone
Voice -dial	Short press  button once	None
Redial	Short press  button for 2 seconds	None
Cancel call	Short press  button once	None
Volume up	Short press volume+ button	None
Volume down	Short press volume- button	None
End call	Short press  button once	None
Answer call	Short press  button once	None
Reject call	When incoming call, short press  button twice	None
Transfer call (from BTC003 to cell phone)	Press and hold volume+ button for 2 seconds	A short tone
Transfer call (from cell phone to BTC003)	Press and hold volume+ button for 2 seconds	A short tone
Microphone mute	Press and hold volume- button for 2 seconds	A short tone
Cancelling microphone mute	Press and hold volume- button for 2 seconds	A short tone
Reconnection	Short press  button once	2 long tones

Remarks:

- ◆ Not all cell phones support all the functions listed above. Please refer to your cell phone's user manual for further information.
- ◆ When the volume is adjusted to max. you will hear a long "DU" tone.
- ◆ When pressing the answer button on some cell phones, the conversation will be sent to the cell phone. You have to switch the call to the hands-free kit manually then. Please refer to your cell phone's user manual for further information.

7. Call waiting









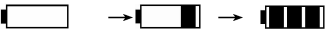

BTC003 supports call waiting function, so you will never have to worry about missing a call while talking on the phone. It requires your cell phone to have call waiting function enabled.

Function	Operation	Indication tone
Incoming call	When there is a third-party incoming call, BTC003 will ring	4 indication tones every 3 seconds, a total of 3 times of indication tones
Ending call and then answering new call	When there is a third-party incoming call, short press MFB button once	None

Keeping current conversation and then answering new call	When there is a third-party incoming call, press and hold MFB button for about 2 seconds	1 short tone
Switching the conversation	Press and hold MFB button for about 2 seconds during conversation	1 short tone
Ending current conversation and then switching to conversation to be kept	Short press MFB button once during conversation	None

Remark: When there is third-party incoming call, the LCD screen will display the caller ID. When put through and during conversation, the LCD screen will display "calling" all the time.

8. LCD indicator

Status of BTC003	LCD indicator
Turing on	BTC003
Turning off	GOOD BYE
Pairing mode	 Pairing...
Standby (not connected)	BTC003
Standby (connected)	Display the name of mobile phone, for example "Motorola V3ie"
Answering a call	
Dialing	
Incoming call	
Voice dialing	
Microphone muted	
Cancelling microphone mute	
Volume adjustment	"Volume level"
Call waiting	Calling
No call records	No Record
Transferring phonebook	SYNC PB
Transferring phonebook failed	Sync Fail!
Prompting to erase phonebook	Erase all?
Erasing phone number	Erase.....
Successful erasing phonebook	Erase OK
Low power	
Charging	
Fully charged	

9. Indication tone

Status of BTC003	Indication tone
Microphone is muted	Two “DU” tones every 5 seconds
Low power	A “DU” tone every 15 seconds

■ Care and maintenance

Read the following recommendations before using BTC003. Following these you will be able to enjoy our product for many years.

- ◆ Keep it dry and don't take it to damp places to avoid the product's internal circuit being affected.
- ◆ Keep the product away from direct sunlight or hot places. High temperatures will shorten the life of electronic devices, destroy the battery or distort certain plastic parts.
- ◆ Don't expose the product to cold areas. It may damage the internal circuit board.
- ◆ Don't try to disassemble the product as it may get damaged if you are not professional.
- ◆ Don't let it fall down onto the floor or other hard surfaces. The internal circuit might get damaged.
- ◆ Don't use intensive chemical products or detergent to clean the product.
- ◆ Don't scratch the surface with sharp things.

In case the product doesn't function properly, send it to the store you bought it. The staff will help you to solve the problem.

■ FAQs

1. **What to do when there is noise?**
 - a) Keep a little distance between BTC003 and your cell phone to minimize interferences due to cell phone radiation;
 - b) Stay within the Bluetooth operating range and avoid barriers between the devices to ensure good conversation quality.
2. **What to do when there is no sound?**
 - a) Make sure BTC003 is charged and turned on;
 - b) Ensure BTC003 is connected to your cell phone. If they are not connected, press MFB once to reconnect or check your cell phone's Bluetooth device list.
3. **What to do when BTC003 doesn't connect to my cell phone?**
 - a) Make sure BTC003 is charged and turned on;
 - b) Ensure BTC003 is paired with your cell phone;

- c) Make sure your cell phone's Bluetooth function is turned on, refer to its user manual for further information;
- d) Keep BTC003 and your cell phone within 10 meters and make sure there are no barriers like walls or other electronic devices between them.
- e) Try repairing your cell phone with BTC003 in case you still encounter difficulties.

4. What to do when BTC003 can't be turned off?

Press **ON/OFF** button and **volume+** button simultaneously to turn off BTC003.

■ Specifications

Bluetooth version	Bluetooth V2.1
Bluetooth profiles	Headset, Hands-free
Effective range	Up to 10m
Working time	Up to 13hrs
Standby time	Up to 100hrs
Charging input	DC 5.5V --- 500 mA
Charging time	About 2hrs
Dimensions	106*54*15mm
Weight	Main body: 65g Windshield: 14g

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:

- Reorient or relocate 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.

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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.