

ABT310
Solar Bluetooth hands-free car kit
User's manual

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8. Indication tone

| Status of ABT310 | Indication tone |
|--------------------|--------------------------------|
| Microphone is mute | Two "DU" tones every 5 seconds |
| Low power | A "DU" tone every 15 seconds |

■ **Care and maintenance**

Read the following recommendations before using ABT310. Following these you will be able to enjoy our product for many years.

- ◆ Keep the car kit dry and don't take it to damp places to avoid the product's internal circuit being affected.
- ◆ Do not expose the car kit to temperatures higher than 60 °C. the temperature in side the car can often be as much as 20 deg higher if left standing in direct sunlight on a hot day. So please keep that in mind.
- ◆ Don't expose the car kit to extremely cold areas. It may damage the internal circuit board.
- ◆ Don't try to disassemble the car kit as it may get damaged
- ◆ Don't use intensive chemical products or detergent to clean the car kit.

In case the car kit doesn't function properly, send it to the store you bought it. The staff will help you to solve the problem. Or you can contact our service department:

TDJ Australia
 78 mills rd Braeside Vic
 (613)8587 8888

■ **FAQs**

1. What to do when there is audible interference

- a) Keep a distance between the ABT310 and your mobile phone to minimize interferences due to mobile 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 the ABT310 is charged and turned on;
- b) Ensure the ABT310 is connected to your mobile phone. If they are not connected, press MFB once to reconnect or check your mobile phone's Bluetooth device list.

Welcome to this solar Bluetooth hands-free car kit model ABT310. Please read this user's manual carefully before use.

■ **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 mobile phones, computers, printers, PDAs and other devices. The max transmission range of class II is 10 meters while the max transmission range of class I can reach up to 100 meters.

2. About the car kit

The ABT310 is a solar-powered Bluetooth hands-free car kit. It has the following features:

- ◆ Answer a call, end a call and reject a call
- ◆ Redial last number
- ◆ Voice dial (This function needs to be supported by your mobile phone)
- ◆ Volume control
- ◆ Call transfer between your mobile phone and the car kit
- ◆ Microphone mute
- ◆ LCD showing caller ID
- ◆ Caller ID memory
- ◆ Built-in phone book (Pending comparability with hand set)
- ◆ Charging by solar power
- ◆ Full duplex DSP for echo cancellation and noise reduction
- ◆ Call waiting

3. What to do when the ABT310 doesn't connect to my mobile phone?
 - a) Make sure ABT310 is charged and turned on;
 - b) Ensure ABT310 is paired with your mobile phone;
 - c) Make sure your mobile phone's Bluetooth function is turned on, refer to its user's manual for further information;
 - d) Keep the ABT310 and your mobile 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 the ABT310 in case you still encounter difficulties.

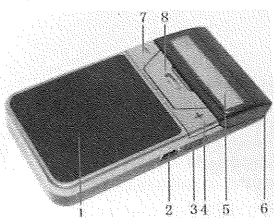
4. What to do when the ABT310 can't be turned off?
Press ON/OFF button and volume + button simultaneously to turn it off

■ Specifications

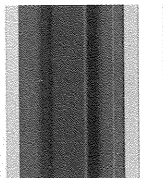
| | |
|------------------------------|---|
| Bluetooth specification | Bluetooth V2.1 |
| Bluetooth profiles supported | HSP and HFP |
| Operating distance | Up to 10 meters Class II |
| Talk time | Up to 10 hours |
| Standby time | Up to 160 hours |
| Charging input voltage | DC 5 V === 500mA |
| Charging time | About 2 hours |
| Solar panel | 5.5V === 50mA |
| Working temperature | -10~60°C |
| Storage temperature | -20~70°C |
| Dimensions | 106×54×15mm |
| Weight | Main body: 65g Windshield mount: 14g |

This Aerpro product was developed by
TDJ Australia.
78 Mills road braeside Victoria Australia
Ph 61 3 8587888

■ Getting started
1. Overview



Front of main body



Back of main body

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

2. Charging the car kit

The car kit comes with a built-in rechargeable Li-polymer battery, prior to using it, it is recommended to charge the battery fully for the first time from A USB port for at least 3 Hrs.

When the LCD screen displays a low power icon and a "DU" tone can be heard every 15 seconds, you have to recharge the battery of the car kit.

Using the USB car charger

Please connect the car kit to car cigarette lighter socket using the supplied USB car charger. It will take about 2 to 3 hours to charge the battery fully.

7. LCD indicator

| Status of ABT310 | LCD indicator |
|------------------------------|---|
| Power on | Power On |
| Power off | Power Off |
| Pairing mode | ☞☞ Pairing... |
| Standby mode (not connected) | ABT310 |
| Standby mode (connected) | Display the name of mobile phone, for example "Motorola V3ie" |
| During a call | { ☞☞ } |
| Dialling | { ☞ } |
| Incoming call | { ☞ } |
| Voice dial | ☞ |
| Microphone mute | ☞>> |
| Cancel mute | ☞<< |
| Volume adjustment | "Volume level" |

| Status of ABT310 | LCD indicator |
|--------------------------------|----------------|
| Call waiting | Calling |
| No call records | No Record |
| Transferring phone book | Sync Phonebook |
| Transferring phone book failed | Sync Failure! |
| Prompting to erase phone book | Erase All? |
| Erasing phone number | Erasing... |
| Successful erasing phone book | Erase Complete |
| Low power | • |
| Charging | • |
| Fully charged | • |

using the answer button on the ABT310, the call will be transferred to the mobile phone bypassing the ABT310. You have to switch the call to the hands-free car kit manually then. Please refer to your mobile phone's user's manual for further information.

6. Call waiting

The ABT310 supports call waiting function, so you will never have to worry about missing a call while talking on the phone. It requires your mobile phone to have call waiting function enabled.

| Function | Operation | Indication tone |
|---|--|---|
| Incoming ring | When there is a new incoming call, ABT310 will ring | 4 tones every 3 seconds, a total of 3 times of indication tones |
| End current call and then answer a new call | When there is a new incoming call, short press MFB button once | None |
| Keep current call and then answer a new call | When there is a new incoming call, press and hold MFB button for about 2 seconds, when put through, the LCD screen will display "Call2" | 1 short tone |
| Call transfer | Press and hold MFB button for about 2 seconds during a call | 1 short tone |
| End current call and then switch to the call to be kept | Short press MFB button once during a call | None |

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

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5. Making a call with the car kit

You can make a call with ABT310 when it connects to a mobile phone, and you can make a call in different ways.

- 1) Make a call from your mobile phone: Find the number you want to dial from the phone book of mobile phone and dial it.
- 2) Make a call from the phone book of the ABT310: When the ABT310 is in standby mode, short press **A/T** button once to open the phone book of the ABT310, LCD screen will display the phone book of ABT310, and then press volume + button or volume - button to see previous or next phone number to find the number you want to dial, at last short press button.
- 3) Make a call from the call records of ABT310: When the ABT310 is in standby mode, short press volume + button or volume - button once to open the call records of the ABT310, LCD screen will display the last incoming call, and then press volume + button or volume - button to see previous or next phone number to find the number you want to dial, at last short press button.
- 4) Redial last number from the ABT310: Double click button to dial last number.

The operation is as following:

| Function | Operation | Indication tone |
|--------------------|-------------------------|-----------------|
| Voice dial | Short press button once | None |
| Redial last number | Double click button | None |
| Cancel calling | Short press button once | None |

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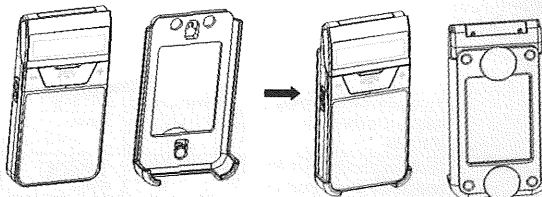
Using solar power

Please place the car kit onto the car windshield, when the car is in sunlight, the car kit will be able to use the sunlight to charge its battery. It will take about 28 hours of sunlight to charge the battery fully from a flat condition. The battery may still need charging via the cigaret lighter adapter from time to time if the unit is being used extensively. However, many some users may not have to charge the unit for extended periods of time. 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 the battery of the car kit by using solar power, you must turn on the car kit firstly.

3. Installing the car kit

1) Installing the car kit on the windshield mount



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

2) Installing the suction cups

As the following pictures show, install the suction cups to the suction cup hole on the back of the windshield mount.

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2. Pairing with a Bluetooth mobile phone

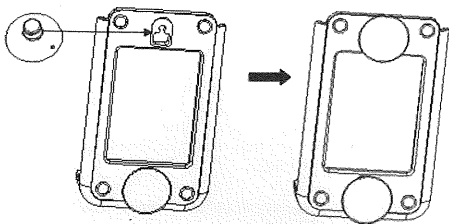
Prior to using the car kit for the first time, you have to pair it with a Bluetooth-enabled mobile phone. The pairing procedures are subject to different models of mobile phones. Please refer to your mobile phone's user's manual for further information. The general pairing procedures is as follows:

- 1) Keep the car kit and your Bluetooth mobile phone within 1 meter when pairing;
- 2) Make sure the car kit is turned off, otherwise turn it off;
- 3) Press and hold the **ON/OFF** button for about 6~7 seconds until the LCD screen displays "Pairing...". Now the car kit has entered pairing mode;
- 4) Activate your mobile phone's Bluetooth function and search for Bluetooth devices. After the search is completed, select "ABT310" from the Bluetooth device list;
- 5) Enter the password or PIN No: "0000", and press "Yes" or "confirm";
- 6) After successful pairing, select "ABT310" from the Bluetooth device list, and press "connect". After successful connecting, the LCD screen will display the name of your mobile phone.

Remarks:

- ◆ Pairing mode will last 3 minutes. ABT310 will switch to standby mode automatically if it can't pair with any devices after 3 minutes. Standby mode will remain activated until ABT310 runs out of power. If you want to continue to pair ABT310 with a Bluetooth device, please turn off ABT310 first and re-pair according to steps 1~6 mentioned above.
- ◆ The ABT310 can remember 8 paired devices. When the number of paired devices exceeds 8, the first one will be replaced.
- ◆ When the ABT310 is turned on but doesn't connect to any devices, you can press the **MFB** once to connect ABT310 to the last connected device.
- ◆ Every time ABT310 is turned on, 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 try to pair ABT310 with a new device according to steps 1~6 mentioned above.

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3) **Attaching 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. **Power on/off**

| Function | Operation | LCD indicator | Indication tone |
|-----------------------|--|---------------|-----------------------|
| Power on | Press and hold ON/OFF button for about 2 seconds | Power On | 4 rising tones |
| Power off | Press and hold ON/OFF button for 3~5 seconds | Power Off | 4 falling tones |
| Entering pairing mode | When power off, press and hold ON/OFF button for 6~7 seconds | Pairing... | 2 lowering "DU" tones |
| Reset to power off | Press ON/OFF button and volume + button simultaneously to reset the car kit | None | None |

Remark: The car kit will turn off automatically if it is in standby mode and can't connect to any devices after 10 minutes.

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3. **Built-in phone book function**

The car kit has a built-in phone book. You can transfer the phone book from your mobile phone to the car kit, which will be more convenient for you to make a call with the car kit. However please note this function is subject to compatibility of the hand set to the AB310's Phone book functionality.

- 1) Transferring the phone book from a mobile phone via AT command:
 Please make sure the ABT310 and the mobile 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 Phonebook" and then will 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 Complete". If the transfer has failed, the LCD screen will display "Sync Failure".
- 2) Transferring phone numbers via OPP (Object Push Profile): When the ABT310 and your mobile phone are paired or connected, you can transfer phone numbers from your mobile phone to the ABT310. Please refer to your mobile phone's user's manual for further information.
- 3) Displaying phone book: Short press the **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 previous/next phone number.
- 4) Erasing the phone book: Short press **A/T** button once to enter the phone book and the LCD screen will now display a phone number, and then press the

button for about 5 seconds, the LCD screen will display "Erase All?". If you want to erase all phone numbers, please short press

button once, when all phone numbers are erased, the LCD screen will display "Erase Complete".

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| Function | Operation | Indication tone |
|--|--|-----------------|
| Volume up | Short press volume + button | None |
| Volume down | Short press volume - button | None |
| End a call | Short press button once | None |
| Answer a call | Short press button once | None |
| Reject a call | When there is an incoming call, short press button twice | None |
| Transfer call (ABT310 to mobile phone) | Press and hold volume + button for 2 seconds | A short tone |
| Transfer call (mobile phone to ABT310) | Press and hold volume + button for 2 seconds | A short tone |
| Microphone mute | Press and hold volume - button for 2 seconds | A short tone |
| Cancel mute | Press and hold volume - button for 2 seconds | A short tone |
| Reconnection | Short press button once | 2 long tones |

Remarks:

- ◆ Not all mobile phones support all the functions listed above. Please refer to your mobile phone's user's manual for further information.
- ◆ When the volume is adjusted to max. or min. you will hear a long "DU" tone.
- ◆ When pressing the answer button on some mobile phones instead of

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- 5) Erasing a single phone number: Short press the **A/T** button to enter the phone book. The LCD screen will display the first phone number now. By pressing volume + button or volume - button, you can search for the phone number you want to erase and by pressing volume + and volume - button simultaneously, the phone number will be deleted. The LCD screen now displays "Erase Complete".

Remarks:

- ◆ When the phone number being transferred already has been sent to ABT310, the LCD screen will display "Same Number" and prompt "Sync Complete" while exiting the transfer. When you use ABT310 to draw all phone numbers from a mobile phone, the LCD screen will display "Same Number" when encountering an already copied number and move on with the next one.
- ◆ The car kit's phone book can store 400 phone numbers at most. When transferring the phone book from a mobile phone via AT command, ABT310 can only search 400 phone numbers stored in the mobile phone and 200 phone numbers stored in the SIM card.
- ◆ When transferring the phonebook from the mobile phone via AT command, an HFP connection will be used.

4. **Call records**

ABT310 can store the last 20 call records, including received calls and missed calls.

- 1) Checking call records: When ABT310 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 Complete".

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