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Bluetooth Module User's Guide

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Welcome

Welcome to Motorola's "connected" world of Bluetooth personal area wireless networking. We are pleased you have chosen the Motorola Bluetooth Phone Module to keep you connected with ease.

The Bluetooth Phone Module enables you to exchange data and/or audio seamlessly between your cellular telephone and other Bluetooth devices such as PDAs or notebook computers.

All Motorola wireless products are designed and manufactured to meet Motorola's rigorous specifications and world-class quality standards. During development, our testing team took the Motorola Bluetooth Phone Module through rigorous durability tests including temperature, humidity, shock, dust, vibration, and drop tests—and it worked perfectly.

We are confident that you will find your Bluetooth Phone Module to be a convenient and secure way to exchange voice signals and other data. Thank you for choosing a Motorola Bluetooth product!

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Safety and General Information

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

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 phone 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.

Aircraft

When instructed to do so, turn off your phone when on board an aircraft. Any use of a phone must be in accordance with applicable regulations per airline crew instructions.

Medical Devices

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of 6 inches (15 centimeters) be maintained between a handheld wireless phone and a pacemaker. These recommendations are consistent with the independent research by, and recommendations of, Wireless Technology Research.

Persons with pacemakers should:

- ALWAYS keep the phone and Bluetooth phone module more than six inches (15 centimeters) from your pacemaker when the phone is turned ON.
- NOT carry the phone and Bluetooth phone module in the breast pocket.
- use the ear opposite the pacemaker to minimize the potential for interference.
- turn OFF the phone immediately if you have any reason to suspect that interference is taking place.

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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.

Getting Started

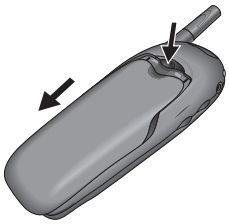
What Is Bluetooth?

Bluetooth is a type of radio communication. Bluetooth *devices* can find and communicate with each other without using any wires.

Bluetooth *devices* (such as Bluetooth Phone Modules and speakerphones) communicate through a common link that the two devices share.

A Bluetooth device can *seek* other Bluetooth devices and determine which ones are open. An *open* device is one that is awaiting a link. A Bluetooth device can then *link*—establish an active connection—to the device and begin exchanging voice signals or other data with it.

Attaching the Module to Your Phone

Do This	
1 Turn off your phone.	
2 Remove the battery cover.	
3 Attach the Bluetooth module. **Note:** The Bluetooth module uses some battery power whenever it is attached. (See "Turning Voice Dial On and Off" on page 11.)	

Bluetooth Menus

Note: Bluetooth menu items only appear when the Bluetooth module is attached.

Before you make a bond, the `Bluetooth Link` Menu includes these selections:

- **Bluetooth Link**
  - **Hands Free**
    - Reconnect
    - Scan All
    - Voice Dial
  - **Devices**
  - **Setup**
    - Await Link
    - Name

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- **Bluetooth Link**
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    - Disconnect
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  - **Devices**
  - **Setup**
    - Await Link
    - Name

Naming Your Module

When other Bluetooth devices find your module in a scan, they see its 12-character Bluetooth address. (PC tools can see more character.)

If you want them to see a text name instead, you can "name" your module:

Find the Feature MENU > Settings > Connection > Bluetooth Link > Setup > Name

Press	To
1 keypad keys	enter the characters for the name (40 characters maximum)
2 OK (⊙)	save the name that you entered

Turning Voice Dial On and Off

You can change the function of the button on some Bluetooth headsets. This only applies to phones with voice recognition.

- With Voice Dial On, this button functions like your phone's Voice Dial button.
- With Voice Dial Off, this button functions like .

Find the Feature MENU > Settings > Connection > Bluetooth Link > *device name* > Voice Dial

Press	To
1 ‹◦›	scroll to On or Off
2 SELECT (⊙)	select the option

Linking Devices

Starting a Link to Another Device

You can tell your module to find and link to other Bluetooth devices. Your module remembers the last device it linked, so you can reconnect it quickly.

Note: You can only link to one device at a time.

Finding and Linking Devices

To look for available Bluetooth devices and select one to link:

Find the Feature MENU > Settings > Connection > Bluetooth Link > Hands Free > Scan All

The module scans for devices and shows you a list of the ones it finds. To link a device in the list:

Press	To
1 ‹◦›	scroll to the device you want to link
2 LINK (⊙)	ask the device to link Your phone displays a linking notice when the link is complete.

Linking the Last Device

You can quickly reconnect the last device that linked to your module:

Find the Feature MENU > Settings > Connection > Bluetooth Link > Reconnect

The module links to the device.

Tip: Reconnect to the last device during a voice call by pressing MENU > Use Bluetooth.

Resolving a Lost Link

If the module loses its link to a handsfree device, it automatically tries to reconnect for 8 seconds. If it cannot reconnect, it displays `Retrying Bluetooth Link: Use Handset?`.

Note: This applies only to handsfree devices such as headsets and car kits.

To resolve the lost link:

Do This	To
Press `YES` (⌔)	switch to your phone's handset and resume the call
or	
Wait	let the module try to reconnect for 30 seconds If the module fails, it ends the call.
or	
Plug in another device (such as a wired headset)	switch to the new device and resume the call

Ending a Link

To disconnect your Bluetooth module from another device:

Find the Feature MENU > Settings > Connection > Bluetooth Link > Disconnect

Press	To
YES (⊙)	confirm the disconnect

Tip: If you are using a handsfree device during a voice call, you can switch to the *handset* (the phone's earpiece and microphone) by pressing MENU > Use Handset.

Receiving a Link from Another Device

Other Bluetooth devices may ask to link with your module, if it is awaiting links.

Awaiting Links

Your module *automatically* awaits links from new devices for 60 seconds when you turn on your phone.

You can also *manually* direct your module to await links for a 60-second period:

Find the Feature MENU > Settings > Connection > Bluetooth Link > Setup > Await Link

The phone displays a brief notice, and the module awaits new links for 60 seconds.

Responding to Link Requests

If a device's access level is set to Automatic (the standard setting), then your module grants the device's link requests without any notice. To change a device's access level, refer to "Editing a Device in Your Device List" on page 19.

If your module receives a link request from a device with Ask access, your phone displays a message such as Bond with Computer?.

Press	To
YES (⊙)	grant the device access to a service on your module
or	
NO (⊘)	deny access

For additional security, the requesting device may also require you to enter a passkey (authorization code):

Press	To
1 keypad keys	enter your Bluetooth passkey
2 OK (⊙)	submit your passkey and grant access

Managing Your Device List

Your module keeps a list of the devices that link with it. If you change the name and access level for a device in this list, your module will use your settings the next time it links to the device.

Note: Your device list holds up to seven devices. To add a device to the list, link to the device (your module adds it to the list).

Access Level Descriptions

You can grant one of two access levels to a device:

Access	Description
Automatic (standard access)	The device can use any of your module's services without asking you for approval.
Ask	Your phone asks for your approval each time the device wants to use a service on your module.

Editing a Device in Your Device List

To edit a device in your list:

Find the Feature MENU > Settings > Connection > Bluetooth Link > Devices

Press	To
1 ‹◦›	scroll to the device you want to edit
2 EDIT (⊙)	display the device's details
3 CHANGE (⊙)	select Name, if you want to change the name that appears
4 keypad keys	enter the new name (20 characters maximum)
5 OK (⊙)	store the name
6 ‹◦›	scroll to Access
7 CHANGE (⊙)	select Access
8 ‹◦›	scroll to Automatic or Ask
9 SELECT (⊙)	store the access level

Deleting a Device in Your Device List

To delete a device in your list:

Find the Feature MENU > Settings > Connection > Bluetooth Link > Devices

Press	To
1 ‹◇›	scroll to the device you want to delete
2 MENU	display the device list menu
3 SELECT (⊙)	select Delete

Ensuring Successful Fax Transmission

When originating a fax from a PC (a *mobile originated*, or *MO* fax) with a Bluetooth connection to a Motorola cellular phone, follow these guidelines:

Type of Fax	Use This Fax Application	Use This Interface
one or more text-filled pages	• 32bitFax **or** • CallCenter	TAPI **Note:** Do not use the COM interface.
pages with less text and large blank areas	• WinFax Pro **or** • FaxTalk Communicator	

Troubleshooting

Error	Resolution
Bluetooth Module Not Attached	Check to make sure that the Bluetooth module is attached and connected correctly. This error appears if the module was attached but became loose or unattached.
Bluetooth Bond Failed: List Full	Your phone may display this error when you try to establish a bond connection between your module and another device. The reason for this error is that your module uses a small amount of memory to establish connections. If your device list is full, your module does not have enough memory to use. To resolve the error, delete one or more items from your device list (refer to "Deleting a Device in Your Device List" on page 20). Then try the connection again from the beginning.
Invalid: Bluetooth Passkey	If you enter an incorrect Passkey, you need to start the bond again. You do not get another chance to enter the Passkey.
No links found	The module found no devices during a scan.

Troubleshooting

Error	Resolution
Unable to Connect (Connection Failed)	This error appears if a device is not available when you try to "reconnect" it or select it from the device list.