



# PRYME BT-583 Advanced BT Adapter for Portable Radio User Guide

[Home](#) » [PRYME](#) » PRYME BT-583 Advanced BT Adapter for Portable Radio User Guide 

## Contents

- [1 PRYME BT-583 Advanced BT Adapter for Portable Radio](#)
- [2 Controls and Connection](#)
- [3 QUICK START](#)
- [4 Connecting the Adapter to Radio](#)
- [5 Pairing with a Wireless Audio Accessory](#)
- [6 Pairing with a Wireless PTT Button](#)
- [7 Connecting a Wired Audio Accessory to the PRYMEBLU Adapter](#)
- [8 AUDIO ACCESSORY CONFIGURATIONS](#)
- [9 USING THE ADAPTER](#)
- [10 TROUBLESHOOTING](#)
- [11 Documents / Resources](#)
- [12 Related Posts](#)

# PRYME®

**PRYME BT-583 Advanced BT Adapter for Portable Radio**



The PRYMEBLU advanced adapter allows you to use a compatible wireless headset or other audio accessory with your portable two-way radio.



**BT-583**



**BT-PTT-Z (mini)**

(Optional Push-To-Talk button sold separately.)

Advanced BT Adapter

Applicable Models: All multipin BT-5xx-V2 models Made in Taiwan

FCC ID: N2E-xxxxx

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## Controls and Connection



## QUICK START

1. Connect the PRYMEBLU Radio Adapter to a compatible two-way radio.
2. Pair the PRYMEBLU Radio Adapter with a compatible wireless audio accessory.
3. Pair a PRYMEBLU Wireless Push-to-Talk button with the PRYMEBLU Advanced Adapter (optional).
4. Connect a wired Push-to-Talk button or wired audio accessory to the Quick-Disconnect accessory port on the PRYMEBLU Radio Adapter (optional).
5. Test and use.

## Connecting the Adapter to Radio

To connect your PRYMEBLU Advanced Adapter to a two-way radio, follow these steps:

- Always turn off your two-way radio before connecting the PRYMEBLU Advanced Adapter.
- Plug the PRYMEBLU Advanced Adapter into the audio accessory jack of your two-way radio.
- On some models of two-way radio, you may need to tighten a retaining screw or fasten a latch in order to ensure that the PRYMEBLU Advanced Adapter remains securely attached to the radio



### **Pairing with a Wireless Audio Accessory**

- Turn off the radio that the PRYMEBLU Advanced Adapter is connected to. Wait at least three seconds.
- Turn the radio on while holding down the Talk button on the PRYMEBLU Advanced Adapter.
- Continue to hold the Talk button down until the status LED begins to flash two times per second. (You may need to angle your finger off to the side of the Talk button to see the LED.) This can take approximately three to five seconds.
- Release the Talk button. The PRYMEBLU Advanced Adapter is now in audio accessory pairing mode.
- Activate the pairing mode on your compatible wireless audio accessory using the process provided by that device's manufacturer.
- Keep the PRYMEBLU Advanced Adapter and wireless audio accessory close to each other and wait a few seconds.
- Once the audio accessory and adapter are paired with each other, the status LED on the adapter will show a long blue flash and then begin to flash approximately once every second. Once successfully paired, you will be able to operate your two-way radio using your compatible wireless accessory.



## Pairing with a Wireless PTT Button

The PRYMEBLU Advanced Adapter is compatible with a few different wireless PTT buttons:

- PRYMEBLU BT-PTT2, which uses conventional BT.
- PRYMEBLU BT-PTT-Z or PRYMEBLU BT-PTT-ZU, which use a special form of BT called BT Low Energy (BLE).

To pair the adapter with a PTT button, follow these steps:

- Power off any wireless headset or audio accessory that has previously been paired to the PRYMEBLU Advanced Adapter.
- Power off the BT PTT button that you intent to use with the PRYMEBLU Advanced Adapter.
- Power off the radio that the PRYMEBLU Advanced Adapter is connected to. Wait at least three seconds.
- Turn the radio on while holding down the Talk button on the PRYMEBLU Advanced Adapter.
- Continue to hold the Talk button down until the status LED begins to flash two times per second. (You may need to angle your finger off to the side of the Talk button to see the LED.) Note that the LED on the adapter may show several single flashes before shows double flashes. This can take approximately three to five seconds.
- Release the Talk button. The PRYMEBLU Advanced Adapter is now in audio accessory pairing mode. To enter PTT pairing mode, proceed to the next step.
- Press and release the Talk button again. The LED on the PRYMEBLU Advanced Adapter will now change to three flashes per second. The PRYMEBLU Advanced Adapter is now in Push-to-Talk pairing mode.
- IF YOU ARE USING A CONVENTIONAL PTT BUTTON (BT-PTT2): Place the button into pairing mode by pressing down the PTT button and pressing the power switch. Continue to hold the button down until the LED on the BT-PTT2 flashes two times per second.
- IF YOU ARE USING A BT LOW ENERGY BUTTON (BT-PTT-Z, BT-PTT-ZU): Power the button on

using the slide switch and then press and release the PTT button two to three times.

- Keep the PRYMEBLU Advanced Adapter and wireless PTT button close to each other and wait a few seconds.
- Once the devices are paired with each other, the LED on the PRYMEBLU Advanced Adapter will revert to one flash every second.
- You can now power back on the headset or audio accessory that you previously paired with the PRYMEBLU Advanced Adapter and let it reconnect.
- Once the audio accessory has reconnected, pressing the PTT on the wireless button will cause the radio to transmit.

### **Reconnecting to a Previously Paired Headset or PTT Button**

Once the PRYMEBLU Advanced Adapter has been successfully paired to a wireless audio accessory and/or PTT button, it will remember that connection. You only need to complete the pairing process for each device once.

If the wireless accessory is powered off or loses connection, the adapter will attempt to re-establish the link as long as both are turned on and in within range of each other. Re-establishing this connection can take 10-60 seconds.



### **Connecting a Wired Audio Accessory to the PRYMEBLU Adapter**

The Quick-Disconnect port on the PRYMEBLU Advanced Adapter allows the connection of a compatible wired PRYME QD series accessory. This includes compatible Push-to-Talk buttons, earphones, surveillance kits, remote microphones, and other accessories.

- To connect a wired accessory, first turn off the two-way radio that the PRYMEBLU Advanced Adapter is connected to.
- Lift up and remove the protective cap covering the Quick-Disconnect port on the PRYMEBLU Advanced Adapter.
- Align the Quick-Disconnect connector of the wired accessory with the Quick-Disconnect port on the PRYMEBLU Advanced Adapter.

Then, push the two connectors together gently until they click into place. NOTE: the male and female connectors are keyed so they must be properly aligned before the two halves can be pushed together.

- To remove a wired accessory that has been installed, gently pull up on the outer barrel of the Quick-

Disconnect connector until the accessory is released.

Then pull the accessory upwards to remove it from the adapter.

**NOTE:** The Quick Disconnect Port is not available on all models.



## AUDIO ACCESSORY CONFIGURATIONS

All of the following are valid ways to use the PRYMEBLU Advanced Adapter:

- A PRYMEBLU wireless audio accessory with a built-in PTT button (BTH-600, BTH-550, or BTH-300)
- A PRYMEBLU wireless audio accessory (BTH-600, BTH-550, or BTH-300) with a PRYMEBLU wireless PTT button (PRYMEBLU BT-PTT2, BT-PTT-Z, or BT-PTT-ZU)
- A PRYMEBLU wireless audio accessory (BTH-600, BTH-550, or BTH-300) with a wired PTT button\* (PRYME PTT-5)
- A wireless headset with no PTT button
- A wireless headset with a PRYMEBLU wireless PTT button (PRYMEBLU BT-PTT2, BT-PTT-Z, or BT-PTT-ZU)
- A wireless headset with a wired PTT button\* (PRYME PTT-5)
- A wired PRYME Quick Disconnect audio accessory\* (with built in wired PTT button)
- A wired PRYME Quick Disconnect audio accessory\* with a PRYMEBLU wireless PTT button (PRYMEBLU BT-PTT2, BT-PTT-Z, or BT-PTT-ZU)
- \* Useable only on adapter models which have a built-in QuickDisconnect accessory port.

## USING THE ADAPTER

The PRYMEBLU Advanced Radio Adapter will automatically route radio calls based on the following priority:  
Transmit and Receive Operation

- If a wired audio accessory is connected to the Quick-Disconnect Port of the PRYMEBLU Advanced Radio Adapter, radio calls (transmit and receive) will be routed to this accessory.



- If no wired accessory is connected, calls (transmit and receive) will be routed to a wireless accessory, if one is paired with the PRYMEBLU Advanced Radio Adapter.

When a new accessory is connected, paired, disconnected, or powered off, it may take several seconds for the audio from received radio calls to be routed appropriately.

**IMPORTANT NOTE:** On some radios, if no wired or wireless audio accessory is connected to the PRYMEBLU Advanced Adapter, then the radio's receive audio may be muted, causing you to miss radio calls. However, on most radios, when no audio accessory is connected, the radio's speaker will be unmuted so that calls can be heard. This feature varies from radio model to radio model and is a function of the radio itself rather than of the PRYMEBLU Advanced Adapter.

In the event that you cannot hear radio calls when no accessory is connected to the adapter, you should detach the PRYMEBLU Advanced Adapter during times when you do not wish to use a compatible wired or wireless audio accessory.

Push-to-Talk can be activated by any of the following methods:

- Pressing and holding the Talk button of the PRYMEBLU Radio Adapter
- Using the PTT button on a wired PRYME Quick-Disconnect accessory (if one is connected to the PRYMEBLU Advanced Radio Adapter)
- Wirelessly using an optional wireless PRYMEBLU wireless Push-to-Talk button

#### **CHOOSING A WIRELESS HEADSET FOR USE WITH THE ADAPTER**

The PRYMEBLU Advanced Adapter should work well with most cellular style wireless headsets. To be compatible with the adapter, we recommend that the headset should meet all the following specifications:

- BT version 3.0 or higher
- Supports BT profiles HSP (Headset) and HFP (Hands Free)
- Has a battery talk time rating in excess of the amount of time you intend to use it between charges. (For example, 9 or 10 hours if you intend to use the headset for an 8-hour period.) Note that the talk time specification is different than the battery standby time.

#### **STATUS LED MESSAGES**

The meanings of the various status LED messages shown by the PRYMEBLU Radio Adapter are shown on the following table:

| LED INDICATION           | MEANING   |
|--------------------------|---|
| One flash per second     | Normal operation                                    |
| Two flashes per second   | Adapter is in pairing mode for BT audio accessories |
| Three flashes per second | Adapter is in pairing mode for PTT devices          |
| One long flash           | BT accessory connected or reconnected successfully  |
| No indication            | Radio is powered off                                |





## TROUBLESHOOTING

### **My wireless audio accessory or PTT button will not pair with the PRYMEBLU Adapter.**

If you are correctly following the pairing processes shown on page 3 and 4 of this manual and cannot get the devices to connect, the most likely problem is that another nearby wireless device is interfering with the pairing process. Please disable BT in all nearby devices other than the adapter and accessory that you are attempting to pair. This includes phones, tablets, wireless headsets, keyboards, printers, and other consumer devices. If you cannot disable (or locate) the wireless device that might be interfering, then we recommend taking the radio, adapter, and accessory to a different area at least 50 feet away from the original location and trying again.

### **My radio shows “Keyloader” on the LCD when I press the Talk button of the PRYMEBLU Adapter.**

When you press the Talk key with no wireless headset paired, the radio believes a keyloader is attached to the radio. Disable the keyloader function in the radio’s programming software or pair a wireless accessory with the adapter.

### **Pressing the Talk button on the PRYMEBLU Advanced Adapter activates the “emergency” or “man down” feature of my two-way radio**

This can happen on some radios which are programmed to use an external wired speaker microphone that has a built-in emergency button. To prevent this from happening, you should reprogram the radio, so the “External Emergency Button” feature is disabled. Doing so will not affect the operation of an emergency button that is built into the radio itself.

### **When the PRYMEBLU Advanced Adapter is connected to my radio but no audio accessory is connected, I cannot send/receive radio calls.**

On some radios, if no wired or wireless audio accessory is connected to the PRYMEBLU Advanced Adapter, then the radio’s audio may be muted, causing you to miss radio calls. This is a function of the radio itself rather than of the PRYMEBLU Advanced Adapter. In the event that you cannot hear radio calls when no accessory is connected to the adapter, you should detach the PRYMEBLU Advanced Adapter during times when you do not wish to use a compatible wired or wireless audio accessory.

## SUPPORT AND WARRANTY

PRYME Radio Products warrants this product against defects in materials or workmanship for a period of one year from the date of retail purchase. PRYME will repair or replace a defective unit, at our option, without charge for parts or labor. The limited warranty is extended only to the original purchaser and is valid only to consumers in the United States and Canada. It does not cover damage or failure caused by or attributable to Acts of God, abuse, misuse, improper or abnormal usage, faulty installation, improper maintenance, lightning, or other incidences of

excessive voltage, or any tampering or repairs by other than a PRYME authorized repair facility. It does not cover replacement of consumable parts, transportation costs, or damage in transit.

Repair or replacement under the terms of this warranty does not extend the terms of this warranty. This warranty can only be modified by an officer of PRYME Radio Products, and then, only in writing. Should this product prove defective in workmanship or material, the consumer's sole remedies shall be such repair or replacement as provided by the terms of this warranty. Under no circumstances shall PRYME Radio Products be liable for any loss or damage, direct, consequential, or incidental, arising out of the use of or inability to use this product. Some states do not allow limitations on how long an implied warranty lasts or the exclusions or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights, which may vary, from state to state.

For support or warranty service on your PRYME product, contact us at 1-800-666-2654 or visit us on the web at [www.PRYME.com](http://www.PRYME.com).


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**DISCLAIMER:** The wireless link used by PRYMEBLU products is an open standard, unsecured technology. Additionally, this product can mute the portable radios internal speaker and microphone if used with no wireless or wired audio accessory connected. This product is not recommended for first-responder or other mission critical users.

## Documents / Resources

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|---|--|
|  | <p><a href="#">PRYME BT-583 Advanced BT Adapter for Portable Radio</a> [pdf] User Guide<br/>BT-583, BT-PTT-Z, Advanced BT Adapter for Portable Radio</p> |
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