



## BLUE-MOB MOBILE ADAPTER GUIDE For Compatible Wireless Audio Accessories

The BLUE-MOB Mobile Adapter allows you to use a compatible wireless headset or other audio accessory with your mobile or base station two-way radio.



Bluetooth Adapter  
Model No.: BLUE-MOB  
Made in Taiwan

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### Federal Communication Commission Interference Statement

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 interference to radio or television reception, which can be determined by turning the equipment off or on, the user is encouraged to try to correct the interference by one of the following measures:

- Recipient 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.
- FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.



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FIG. 2 Typical Rear Connection Type Radio

### STEP ONE: Connecting the Mobile Adapter to a Two-Way Radio

- \* When connecting the COBALT BLUE-MOB Bluetooth Adapter to a two-way mobile radio, first make sure that the two-way radio is powered off.
  - \* Insert the radio connector of the Mobile Adapter into the corresponding jack on the two-way radio. Push the connector into the jack until it is firmly seated.
- NOTE: Most models of COBALT BLUE-MOB Mobile Adapter connect to the accessory plug on the rear of the two-way radio. However, some models may connect to the radio's front microphone jack and/or rear external speaker jack.
- \* On some models you may need to tighten one or more retaining screws on the adapter after plugging the Mobile Adapter's connector into the two-way radio.
  - \* If you will use the COBALT BLUE-MOB Mobile Adapter with a wired Push-to-Talk (such as a footswitch) plug the connector for the PTT into the External PTT Jack of the adapter and mount the switch.



FIG. 3 Typical Front and Rear Connection Radio

## Controls and Connections

### Adapter Housing

The Bluetooth and radio interface circuitry of the COBALT BLUE-MOB Mobile Adapter are contained inside this compact and rugged polycarbonate housing

### Status LED

The LED flashes messages that lets the user know the current status of the COBALT BLUE-MOB Mobile Adapter.

### Multifunction Button

This button is used to place the COBALT BLUE-MOB Mobile Adapter in pairing mode. It can also be used as a Push-to-Talk (PTT) button

### Velcro for Mounting

The Velcro pad on the bottom of the COBALT BLUE-MOB Mobile Adapter allows it to be mounted in a convenient location near the mobile/base station two-way radio

### External PTT Jack

This 2.5 mm Tip-Sleeve (TS) style jack can be used to connect an (optional) external Push-to-Talk device (such as a foot switch) to the adapter. The correct method for wiring the external switch appears below.

### Radio Connector

The radio connector is the part of the adapter that plugs into your mobile or base station two-way radio

### Connection Cable

The COBALT BLUE-MOB Adapter uses shielded cable to connect the adapter to the mobile/base station radio

### NOTE: BT-M83 Model shown.

Other models may vary slightly in appearance.

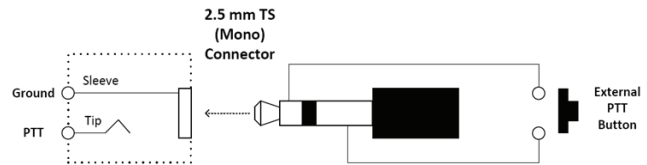


FIG. 1 Connecting a remote PTT

### Reprogramming the Radio

- \* In order for the COBALT BLUE-MOB Mobile Adapter to work properly, some two-way mobile radios may require reprogramming using the radio's manufacturer's Computer Programming Software and a programming cable. This may be necessary to ensure that all of the needed signals are available on the radio's accessory port or to set audio levels to match the headset.
- \* If you believe that your radio requires reprogramming (or are unsure) you should contact your two-way radio dealer or COBALT AV's technical support.

### Mounting the Adapter

Velcro is supplied with the COBALT BLUE-MOB Mobile Adapter allowing you to secure the adapter to nearly any location near the mobile two-way radio. For convenience, you should mount the adapter somewhere that the user will be able to see the status LED and to reach the Multifunction Button for ease of use. Mounting adapter as high as possible and making sure it is not blocked by metal or electrical devices will ensure best possible wireless range.

### STEP TWO: Pairing the COBALT BLUE-MOB Mobile Adapter with a Bluetooth Headset

- \* Make sure that the mobile two-way radio and Bluetooth Headset are both turned OFF. The Bluetooth Headset should be fully charged.
  - \* Put the Bluetooth Headset into pairing mode following the instructions provided by the headset's manufacturer.
  - \* On the COBALT BLUE-MOB Mobile Adapter, press and hold the Multifunction Button while turning the radio ON. Continue to hold the Multifunction button down for approximately three seconds. Release the button when the status LED of the adapter begins to flash two times per second. The COBALT BLUE-MOB Mobile Adapter is now in *headset pairing mode*.
- NOTE: Your two-way mobile radio may transmit during this process. You should set the radio to a channel where interference to other operations will be minimized while you are pairing these devices.
- \* Place the Bluetooth Headset near the COBALT BLUE-MOB Mobile Adapter and wait. Within a few seconds, the devices should sync to each other. Once paired, the LED on Mobile Adapter will change to a long blue flash followed by a single blue flash every few seconds.
  - \* If the COBALT BLUE-MOB Mobile Adapter does not detect a compatible Bluetooth Headset within sixty seconds of being put into pairing mode, the adapter will exit the pairing mode and resume normal operation.



FIG. 4 - Wireless Communication System

### STEP THREE: Pairing the PRYMEBLU Mobile Adapter and PRYMEBLU PTT (OPTIONAL)

\* Make sure the mobile two-way radio, Bluetooth Headset, and COBALT BT-PTT are all turned OFF. The BT-PTT should be fully charged.

\* On the BLUE-MOB Mobile Adapter, press and hold the Multifunction Button while turning the radio ON. Continue to hold the Multifunction button down for approximately three seconds. Release the button when the status LED of the adapter begins to flash two times per second.

NOTE: Your two-way mobile radio may transmit during this process. You should set the radio to a channel where interference to other operations will be minimized while you are pairing these devices.

\* Once again, press the Multifunction Button on the BLUE-MOB Mobile Adapter. Release the button. The LED indicator on the Mobile Adapter should now flash three times per second. The BLUE-MOB Mobile Adapter is now in PTT pairing mode.

\* On the COBALT BT-PTT, press and hold the Push-to-Talk button while setting the power switch to the ON position. Continue to hold the Push-to-Talk button down until you see the LED indicator change to a series of rapid flashes. Release the Push-to-Talk button. The BT-PTT is now in pairing mode.

\* Place the BT-PTT near the BLUE-MOB Mobile Adapter and wait. Within a few seconds, the devices should synch to each other.

\* Once paired, the LED on Mobile Adapter will change to a long blue flash followed by a single blue flash every few seconds. The LED on the BT-PTT will also show a quick single flash every second.

\* If the BLUE-MOB Mobile Adapter does not detect a compatible BT-PTT within sixty seconds of being put into pairing mode, the adapter will exit the pairing mode and resume normal operation.

#### Reconnecting to a Previously Paired Headset / COBALT PTT

Once the BLUE-MOB Mobile Adapter has been successfully paired to a Bluetooth Headset or COBALT BT-PTT, it will remember those connections. If the headset or BT-PTT is powered off or loses connection, the adapter will attempt to reestablish the connection. The adapter and headset/BT-PTT will attempt to reestablish their link whenever when the devices are powered on and in within range of each other. Re-establishing this connection can take 10-60 seconds.

### TROUBLESHOOTING

**My Bluetooth Headset or COBALT Push-to-Talk will not pair with the BLUE-MOB Adapter.** Try re-pairing the BLUE-MOB Mobile Adapter and Bluetooth accessory following the instructions in this guide. Make sure that the BLUE-MOB Mobile Adapter and accessory being paired are within one meter of each other. If possible, isolate them from other Bluetooth devices such as phones, laptops, etc. that might interfere with the pairing process.

**My Bluetooth Headset or COBALT Push-to-Talk worked with the BLUE-MOB Adapter previously, but is not working now.** Make sure that the BLUE-MOB Mobile Adapter is properly connected to the two-way radio and that the adapter has power supplied to it. Ensure that your wireless audio accessory has a fully charged battery and is turned on. If the devices will still not work, re-pair the BLUE-MOB Mobile Adapter to the wireless accessories.

**I can transmit using the Multifunction Button on the BLUE-MOB Mobile Adapter and transmit audio is picked up from my Bluetooth Headset; however the PTT button on my COBALT Push-to-Talk does not key the radio.** Your COBALT BT-PTT is not properly paired with the BLUE-MOB Mobile Adapter or has come un-paired. Try pairing the adapter and BT-PTT again.

**I can transmit using the Multifunction Button on the BLUE-MOB Mobile Adapter or the PTT button on the COBALT Push-to-Talk but no microphone audio is being heard.** Your Bluetooth Headset is not properly paired with the PRYMEBLU Mobile Adapter or has come un-paired. Try pairing the adapter and headset again.

**I have my BLUE-MOB Mobile Adapter plugged into my Mobile Two-Way radio but when I turn the radio on, the LED on the adapter does not light up.** Many radios have an internal micro fuse which protects the radio from being damaged if an accessory draws too much power from the accessory connector. This fuse might blow if the BLUE-MOB Mobile Adapter is plugged into or unplugged from the two-way radio while the radio is powered on. You may need to contact your radio dealer to have this fuse replaced.

**I need more range from my Bluetooth headset.** Try to mount the BT-Mxx as high as possible and clear of any obstructions.

#### STATUS LED MESSAGES

The meanings of the various status LED messages shown by the BLUE-MOB Mobile Adapter are shown on the following table:

LED INDICATION	MEANING
One flash every 4 seconds	Normal operation
Two flashes per second	Headset pairing mode active
Three flashes per second	PTT pairing mode active
One long flash for three seconds	Successfully paired or re-paired
No indication	Radio is turned off or no power is being supplied to the adapter

### STEP FOUR: Transmit and Receive Operation

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

\* Pressing and holding the Multifunction button of the BLUE-MOB Mobile Adapter  
\* Pressing and holding the PTT button on the COBALT PTT (if a BT-PTT is paired to the Mobile Adapter).

\* Pressing and holding the button on the external Push-to-Talk/Footswitch (if one is plugged into the Mobile Adapter) or pressing and holding the PTT switch on any specially designed COBALT headset (such as the BT-LMIC, BT-Earmuff or BT-Throat Mic.) Please note the function key on a normal cell phone type headset DOES NOT activate the radio PTT.

When transmitting, the operator's voice is picked-up by:

\* The microphone in the Bluetooth Headset.

NOTE: If you are using a model of BLUE-MOB Mobile Adapter that connects to the rear accessory jack on the mobile radio, then you can leave the radio's hand microphone attached and use it as a back-up if you wish. Pressing and holding the PTT button on the hand microphone will cause the radio to transmit and the operator's voice will be picked up by the hand microphone.

Receive audio is handled differently depending on whether the model of BLUE-MOB Mobile Adapter you are using connects to the radio's rear accessory jack or front microphone jack/rear speaker jack.

If the adapter you are using connects to the radio's rear accessory jack:

\* Receive audio can be heard over both the radio's internal speaker or over the earphone in the Bluetooth Headset.

\* The volume control knob on the radio controls the internal speaker volume only. If you do not wish to hear received signals over the internal speaker, simply set the radio's volume to zero.

\* The volume of the earphone can be controlled using the Volume Up/Down buttons on the Bluetooth Headset.

If the adapter you are using connects to the radio's front microphone jack and rear speaker jack:

\* Receive audio can be heard only on the earphone in the Bluetooth Headset. The internal speaker in the radio will be disabled.

\* Receive audio volume should be set primarily using the volume control knob on the radio. You can fine tune the volume if needed using the Volume Up/Down keys on the Bluetooth Headset.

### SUPPORT AND WARRANTY

COBALT AV warrants this product against defects in materials or workmanship for a period of one year from the date of retail purchase. COBALT AV 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 COBALT AV 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 COBALT AV, 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 COBALT AV 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.

To return your product for service or repair, please contact our office to be issued an RMA number. PLEASE DO NOT RETURN ANY PRODUCT WITHOUT AN RMA NUMBER.

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**DISCLAIMER:** The Bluetooth link used in this product is an open standard, unsecured technology. As such, it is not recommended for first-responder or other mission critical users.