

# USER MANUAL QUICK START GUIDE BM654AMPBT



**BLUETOOTH® ENABLED  
2-WAY MARINE WAKETOWER  
SPEAKER SYSTEM**  
**BOSS®  
AUDIO SYSTEMS**  
**REBEL  
POWER SPORTS**  
FEATURING 6.5" MARINE GRADE SPEAKERS  
AND 1" PEI DOME TWEETERS  
with BUILT-IN HIGH POWERED INTERNAL AMPLIFIER

# USER MANUAL BM654AMPBT BLUETOOTH® ENABLED | 2-WAY MARINE WAKETOWER SPEAKER SYSTEM



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**1** Thank you for purchasing this **BOSS AUDIO SYSTEMS** **BM654AMPBT All Terrain Sound System**. Please read through these instructions carefully so you will know how to operate your model properly. After you have finished reading the instructions, keep this document in a safe place for future reference.

**THIS PACKAGE CONTAINS**

- 4- BM654AMPBT Marine Waketower Speaker System (1 Active + 3 Passive)
- 1- Bluetooth Multi-Function Controller
- 1- Handlebar Mounting Kit for Bluetooth Controller
- 1- Mounting Bracket Kit
- 1- Power Wire Harness Kit
- 4- Security Rope
- 1- User Manual Quick Start Guide / Poster
- 1- Warranty Card

**Bluetooth**

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**5** **BLUETOOTH OPERATION**

**PAIRING & DISCOVERING A NEW BLUETOOTH CONNECTION**

- 1) Power on the **BM654AMPBT** by pressing and holding down the **Play/Pause** multifunction button for 3 seconds, the **3** blue LEDs will start to flash, signaling that the **BM654AMPBT** is now ready for Bluetooth pairing.

**NOTE:** You have 30 seconds before you must restart this procedure over again.

- 2) Now that the **BM654AMPBT** is in pairing mode:

**ANDROID users:**

- a. Go into the **Settings Menu** of your device
- b. Enter the **Bluetooth Menu**
- c. **TURN ON Bluetooth** and press **SCAN**
- d. "**BOSS BM654AMPBT**" will now be displayed under **AVAILABLE DEVICES**
- e. Press "**BOSS BM654AMPBT**" to get **Bluetooth connected**

**iOS users:**

- a. Go into the **Settings Menu** of your **iOS** device
- b. Enter the **Bluetooth Menu**
- c. **TURN ON Bluetooth**
- d. "**BOSS BM654AMPBT**" will now be displayed
- e. Press "**BOSS BM654AMPBT**" to get **Bluetooth connected**

- 3) If the **BOSS BM654AMPBT** is not seen, repeat the above steps to refresh the "**Device List**"
- 4) When the connection is successful, you are now ready to stream music from your favorite media player to the **BM654AMPBT**

**9** **BEFORE INSTALLING THIS PRODUCT**

To avoid potential shorts in the electrical system, be sure to only use a fuse of the rating specified on this product. To avoid short-circuiting, cover any disconnected leads with insulating tape. It is especially important to insulate any unused wires, which if left uncovered may cause a short circuit. When connecting other devices to this product, refer to the manual for the product to be connected. The black cable is ground, make sure to connect the ground wire first. Ensure that the ground wire is properly connected to metal parts of the vehicles body frame or direct to the battery if your vehicle does not have a grounded chassis frame. The ground wire of this unit power amp and a second powered system must be connected to the frame separately with different screws. If the screw for the ground wire loosens or falls out, it could result in fire or malfunction.

When replacing the fuse, be sure to only use a fuse of the rating specified on this product. To avoid short-circuiting, cover any disconnected leads with insulating tape. It is especially important to insulate any unused wires, which if left uncovered may cause a short circuit. When connecting other devices to this product, refer to the manual for the product to be connected. The black cable is ground, make sure to connect the ground wire first. Ensure that the ground wire is properly connected to metal parts of the vehicles body frame or direct to the battery if your vehicle does not have a grounded chassis frame. The ground wire of this unit power amp and a second powered system must be connected to the frame separately with different screws. If the screw for the ground wire loosens or falls out, it could result in fire or malfunction.

**10** **INSTALLATION INSTRUCTIONS**

**SPEAKER MOUNTING SUGGESTIONS**

**TOOLS NEEDED:**

- 12mm Socket, Wrench or Pliers
- 6mm Allen Wrench

**2** **INFORMATION TO THE USER**

**FCC COMPLIANCE STATEMENT**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of this device.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. The Bluetooth antenna cannot be removed (or replaced) by user. This equipment complies with FCC/ IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure (MPE) evaluation. But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles). Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

**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:

- Relocate or reorient 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.

**CAUTION!!**  
ADJUSTMENT OR ALTERATIONS OF THIS DEVICE MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

**6** **BLUETOOTH / OPERATION**

**RECONNECTION**

- 1) Power on the **BM654AMPBT** and your last paired device Bluetooth.
- 2) The unit will now automatically reconnect
- 3) If your device was previously paired with the **BM654AMPBT**, but it wasn't the last paired device:
  - a. Ensure no other devices are currently paired
  - b. Enter the **Bluetooth Menu** on your device being paired
  - c. "**BOSS BM654AMPBT**" will display under **AVAILABLE DEVICES**
  - d. Choose the "**BOSS BM654AMPBT**" to reconnect
- 4) If the device is out of range from the **BM654AMPBT**, it will disconnect automatically:
  - a. To reconnect once device is back in range, press the **Play/Pause** button once
  - b. The **BM654AMPBT** will now reconnect to the device

To avoid battery exhaustion, be sure to occasionally run the **Tips:** vehicles engine while using this product. Using this product without running the engine can drain the battery.

**11** **WIRE DIAGRAM**

**Hand Tools Required:**

- 3/16" Hex Key and Bit Socket
- 5/32" Hex Key and Bit Socket
- Torque Wrench (in/lbs or nM)
- Thread Lock Compound

**STEP 1: Removing the top half of clamp**

Using the 3/16" Hex Key, remove the top clamp bolts, and note the Caution labels for correct torque settings later.

**STEP 2: To adjust speaker position**

If speaker position is not to be changed, remove the screws and apply threadlocker compound. Using the 5/32" hex bit socket, torque screw access to 44 in/lbs (54N).

To change the speaker position, use the 5/32" hex key to remove the screws. Note: the orientation of the screws must remain in the 12 and 6 o'clock positions after moving the bottom clamp to the desired position.

**STEP 3: Swivel screws**

Apply thread locker compound to the screws. Tighten the screws using the 5/32" hex bit socket and torque wrench to 44 in/lbs (54N).

**STEP 4: Securing clamp bolts**

Using the correct rubber pads (labeled for C.D.) install on both top and bottom half of clamp. Apply thread locker compound to the bolts. Hand tighten the bolts evenly (both sides should have the same torque) between both halves. Using the 3/16" hex bit socket, set the torque wrench to 65 in/lbs (74N).

**STEP 5: Security rope**

Loop the rope around the base of the clamp and bar, secure with the supplied hardware.

**3** **BEFORE YOU START**

**IMPORTANT SAFETY PRECAUTIONS**

- Do not operate mobile equipment while driving a motorized vehicle – safe driving and safety consideration of others should always be your highest priority.
- In the event you should notice smoke, strange noises or odor from this product, or any other abnormal signs, immediately turn off the power and consult your dealer or the nearest authorized **BOSS AUDIO** Service Center. Using this product in this condition may result in permanent damage to the system.
- Set your volume control at a low setting, then slowly increase the sound until you can hear it comfortably without distortion, or ear discomfort.
- BE SURE TO OBSERVE THE FOLLOWING GUIDELINES:**
  - Do not turn up the volume so high that you can't hear what's around you.
  - Use caution or temporarily discontinue use in potentially hazardous situations.

**INSTALLATION PRECAUTIONS**

**WARNING - Always consult a professional installer**

- Do not attempt to install or service this product by yourself. Installation or servicing of this product by persons without professional training and experience in electronic equipment and motorized vehicle accessories may be dangerous and could expose you to the risk of electric shock, injury or other hazards.
- Refer any repairs to a qualified **BOSS AUDIO SYSTEMS** Service Center.
- The **BM654AMPBT** can be powered from a vehicles cigarette lighter / auxiliary power port, or hard wired directly to the battery through an optional relay / accessory switch.
- When wiring directly to the vehicles battery, be sure to disconnect the battery negative terminal wire before starting any wiring procedures. It is suggested that an optional fuse and fuse holder (not included) with minimum rating of **20 Amps** be in line with the positive battery terminal.
- The ground cable length should not exceed 18 inches (See wiring diagram).
- The **BM654AMPBT** has a weather resistant design, it should not be submerged in or under water under any circumstances.
- Use only the installation parts provided with the **BM654AMPBT**.

**CAUTION!!** Using other mounting methods may void this warranty

**7** **STREAMING MUSIC**

**MULTIFUNCTION CONTROLLER BLUETOOTH OPERATION**

- 1) Press the **PLAY/PAUSE** once to start playing music or press the **PLAY** button from your device touch screen
- 2) To skip songs or advance, press the **NEXT TRACK** button
- 3) To select the previous song, press the **PREVIOUS TRACK** button

**VOLUME CONTROL**

- 4) To raise the volume, **Press and Hold** the **VOL +** button 2 ~ 3 seconds
- 5) To lower the volume, **Press and Hold** the **VOL -** button 2 ~ 3 seconds

**Tips:** Make sure your device Bluetooth volume is set at 75% level before stowing in to the carry pouch

**11** **WIRE DIAGRAM**

**SPECIFICATIONS**

**BLUETOOTH**

- Version: 4.0 w/EDR
- A2DP
- Range: 33ft (10m)

**SPEAKERS**

- Impedance: 4Ω
- Magnet: Ferrite
- Cone Type: Injected Polypropylene Cone with Butyl Rubber Surround
- Tweeter Size: 1" PEI DOME

**AMPLIFIER**

- Maximum Output Power: 1500 Watts
- Input Impedance: 16Ω
- Frequency Response: 40Hz-20kHz

**GENERAL**

- Operational Power: 12VDC (10-16V allowable)
- Max Current Draw: 17.5 A
- Replacement Fuse: 20A AGC TYPE
- Color: Black
- Weight: 19.84lbs / 8.9kg
- Dimensions on Wkt/Net: 21.7 x 28.4 x 23.8
- Dimensions Inches Wkt/Net: 8.54 x 11.18 x 9.37

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

**4** **GETTING TO KNOW YOUR BM654AMPBT MULTIFUNCTION CONTROLLER (MFC)**

- 1 MFC - MULTIFUNCTION CONTROLLER
- 2 BLUETOOTH INDICATOR LED(BLUE) / AUX-IN STATUS INDICATOR(RED)
- 3 3.5mm AUX-INPUT
- 4 PLAY/PAUSE / Press and hold for POWER ON
- 5 PREVIOUS TRACK / Press and hold for VOL -
- 6 NEXT TRACK / Press and hold for VOL +
- 7 Warning tone while up to maximum volume
- 8 Disconnect any paired Bluetooth device by pressing **8** button for 4 seconds
- 9 Clear any paired Bluetooth device in memory by pressing **8** button for 10 seconds
- 10 Disconnect any paired Bluetooth device by turning off bluetooth in your device setting menu
- 11 When power on, blue back lit **6** button sparkles slowly for 30+ seconds to search for ex-paired device; after then **6** button blue back lit turns to sparkle quickly for 9mins 30secs until it is powered off
- 12 When Bluetooth device is out of connection range and Bluetooth pairing is disconnected automatically, and then blue back lit **6** button sparkles slowly for 1 min to look for ex-paired device, after then **6** button blue back lit turns to sparkle quickly for 9mins until it is powered off
- 13 When operation voltage is lower than 9.5Volt, MFC gives warning tone
- 13 MFC concludes tones of definition : Power On/Off, Bluetooth connection / Disconnection, Maximum volume, Lower voltage

**8** **AUX-IN**

**BM654AMPBT** can play audio from any device that has a 3.5mm headphone audio jack.

**YOUR DEVICE**

**MULTIFUNCTION CONTROLLER AUX-IN OPERATION**

- 1) Power on the **BM654AMPBT** by pressing and holding down the **PLAY/PAUSE** multifunction button for 3 seconds
- 2) Disconnect any paired **Bluetooth** device by turning off **Bluetooth** in your devices **Settings Menu**
- 3) Connect the integrated 3.5mm **AUX-IN** cable located on right side of the MFC to your devices headphone jack

**VOLUME CONTROL**

- 4) To raise the volume, **Press and Hold** the **VOL +** button 2 ~ 3 seconds
- 5) To lower the volume, **Press and Hold** the **VOL -** button 2 ~ 3 seconds

**Tips:** Make sure your device headphone volume is set at 75% level before stowing in to the carry pouch

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