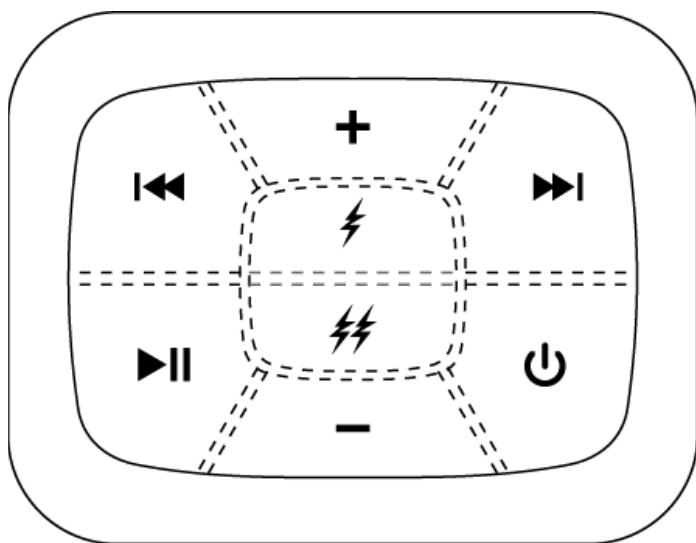# AQUATIC AV

USER MANUAL

BT1 ALL-TERRAIN BLUETOOTH STEREO

BT114

! **PLEASE READ THIS INSTRUCTION MANUAL BEFORE INSTALLATION AND OPERATION** **!**

CONTENTS

1.1 Contents

- BT1 All-Terrain Stereo

- Wiring Harness (AQ-UNH-2)*

- Four (4) Stainless Steel Mounting Screws

- User/Installation Manual

Retail packaged models only.

1.2 Connections

1. **1.2 Connections (see Diagram 1.2.1)**

    The 12-pin harness supplies power and ground connections to the BT1 and four (4) speaker channel output connections from the BT1 (see Wiring Diagram 1.3.1).

    ⚠ *Do not cut or modify the 12-pin harness on the BT1 side or warranty will be void.*

2. **Auxiliary Outputs**

    Allows external amplifiers to be connected to power additional speakers.

3. **12V DC External Trigger (x2)**

    Allows for external lighting or relays to be triggered (3A max load).
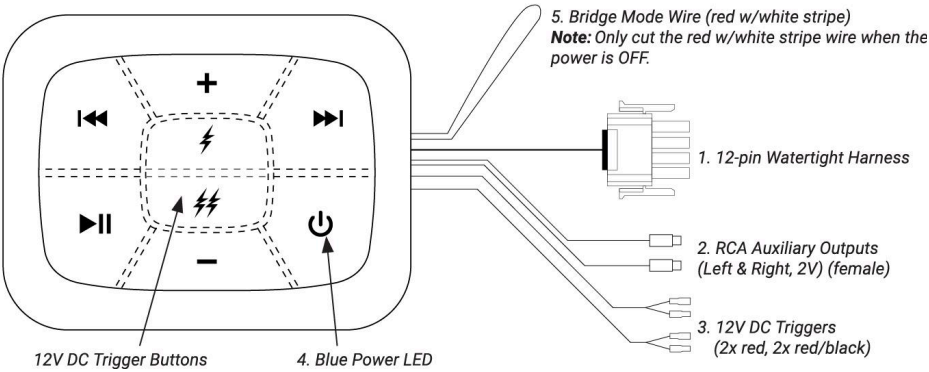
4. **Power On LED**

    When the BT1 is powered On the LED will illuminate blue.

5. **Bridge Mode Wire (red with white stripe)**

    power a standard 4 Ohm DVC (Dual Voice Coil) passive subwoofer (e.g. AQSWP8- 2 and SW102) instead of speakers. See section 1.5 for further details.

    ⚠ *Only cut the red with white stripe wire when the power is OFF.*

1.2.1 Connections Diagram

5. Bridge Mode Wire (red w/white stripe)
Note: Only cut the red w/white stripe wire when the power is OFF.

1. 12-pin Watertight Harness

2. RCA Auxiliary Outputs (Left & Right, 2V) (female)

3. 12V DC Triggers (2x red, 2x red/black)

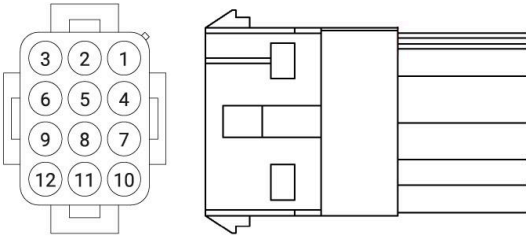12V DC Trigger Buttons   4. Blue Power LED

1.3 12-Pin Harness Connection (Retail Packaged Models Only)

If your BT1 was purchased from an Aquatic AV dealer and/or supplied with retail packaging it is supplied with the Aquatic AV universal harness AQ-UNH-2 in order to connect the BT1 to power and speakers. Please proceed to section 1.4.

If your BT1 was supplied as a pre-installed waterproof entertainment system it will utilise 3rd party wiring connections and is not supplied with the Aquatic AV 12-pin Harness. Please proceed to section 1.6.

12-pin Wiring Harness (AQ-UNH-2)

PIN	COLOR	AWG	LENGTH
1	RED	18AWG	7"
2	GREEN/BLACK	20AWG	7"
3	GREEN	20AWG	7"
4	NOT USED	N/A	N/A
5	WHITE/BLACK	20AWG	7"
6	WHITE	20AWG	7"
7	BLUE	20AWG	7"
8	GRAY/BLACK	20AWG	7"
9	GRAY	20AWG	7"
10	BLACK	20AWG	7"
11	VIOLET/BLACK	20AWG	7"
12	VIOLET	20AWG	7"

1.4 Connecting Power And Speakers

If your BT1 was purchased from an Aquatic AV dealer and/or supplied with retail packaging it is supplied with the Aquatic AV universal harness AQ-UNH-2 in order to connect the BT1 to power and either two or four speakers.

1.4.1 Connecting Power And Two Speakers
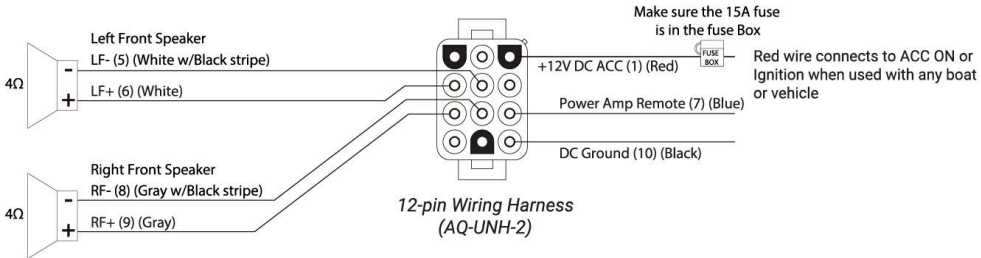
⚠ *No lower than a 4 Ohm speaker load should be used or damage may occur to the BT1. Make sure the polarity of speakers are connected correctly.*

⚠ *All open wire connections should be soldered and protected against water and dust for best long term performance*

1.4.2 Connecting Power And Four Speakers
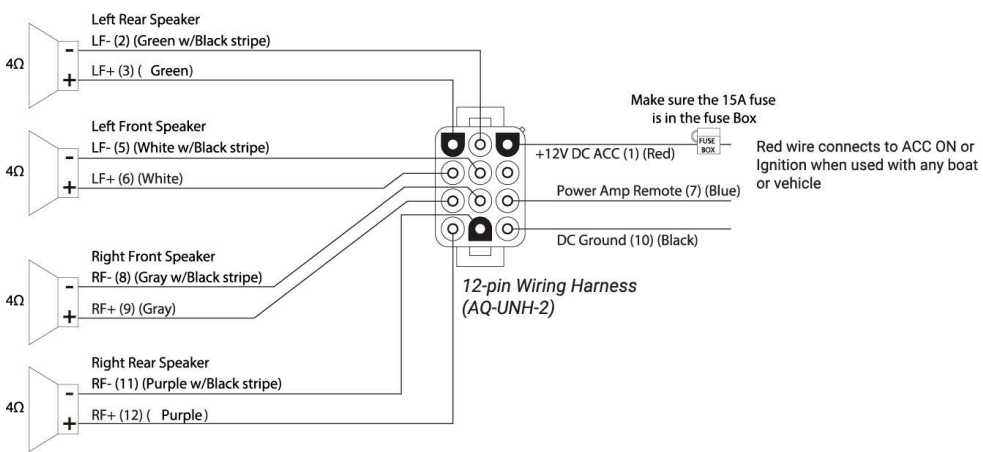
⚠ *No lower than a 4 Ohm speaker load should be used or damage may occur to the BT1. Make sure the polarity of speakers are connected correctly.!*

⚠ *All open wire connections should be soldered and protected against water and dust for best long term performance.*

1.5 Bridge Mode

The BT1 is capable of powering up to four 4 Ohm speakers, however should you wish to power a subwoofer in addition to standard speakers this can be achieved by using the two rear speaker channels in Bridge Mode.

With power turned OFF, cut the red with white stripe wire (see section 1.2.1, point 5) to place the BT1 in Bridge Mode and you will now be able to use the left and right rear channels to power a standard passive subwoofer such as the Aquatic AV AQ-SWP8-2 and SW102.

In Bridge Mode you will only be able to power up to four 4 Ohm speakers (two from the front left channel and two from the front right channel) plus a subwoofer. See Bridge Mode Wiring Diagram, Section 1.4.1 below. These modifications should only be carried out by an experienced audio installer.

⚠ *Only cut the red with white stripe wire when the power is OFF.*

1.5.1 Bridge Mode - Connecting Power, Four Speakers & Subwoofer

⚠ *No lower than a 4 Ohm speaker load should be used or damage may occur to the BT1. Make sure the polarity of speakers are connected correctly.!*
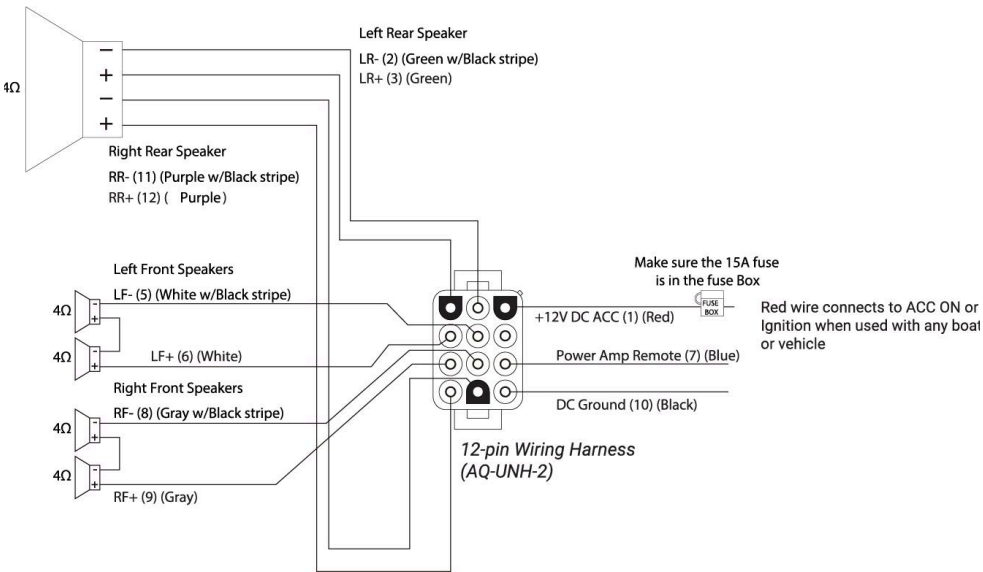
⚠ *All open wire connections should be soldered and protected against water and dust for best long term performance.*

⚠ *Only cut the red with white stripe wire when the power is OFF.*

*Retail packaged models only.

1.6 Mounting The BT1

1. Remove the face plate carefully if not removed already.

2. Make sure the outside surface is clean and clear of debris.
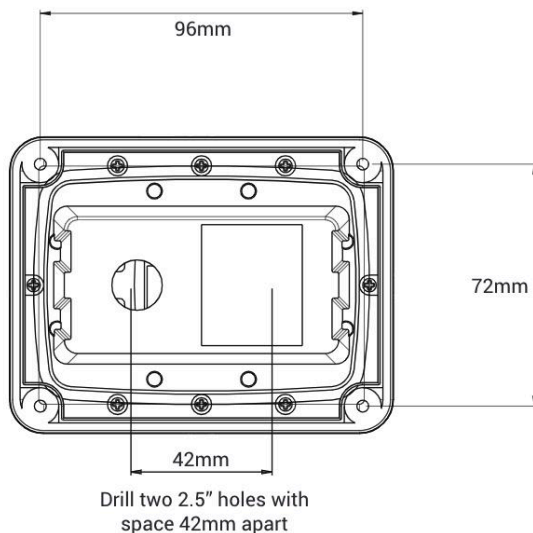
3. The BT1 has four (4) front screws. Drive the screws using a screw driver. Make sure screws are snug and do not over tighten.

4. Re-install the face plate after the screws are fixed in place.

Drill two 2.5" holes with space 42mm apart

1.7 Power On

The BT1 requires +12V DC to the red wire. The stereo will power on after the power button is pressed and held for 5 seconds. The stereo will power off when the power button is clicked short. Ground is connected to the black wire.

In a spa application this requires the red wire to connected to the +12VDC output of the power source. In this set up the BT1 will always be on, with a very low current draw when idle.

In a boat, ATV, car, golf cart or other application requiring power from a battery, the red wire should be connected to the ignition or a switch. When the key is in the Accessory or ON position there is power to the BT144.

2.1 Listening Via Bluetooth

2.1.1 Pair With Bluetooth Audio Device
1. Switch on your Bluetooth Audio device.
2. Select 'AQUATIC AV BT144' from the list of available devices to pair. The default password is '0000'.

2.1.2 Listening Via Bluetooth Device
1. Play the song from device and the sound will play through the BT1.
2. Press PLAY/PAUSE to play/pause the song.
3. Press FAST REWIND/FORWARD buttons to play previous/next song file.
4. Press and hold FAST REWIND/FORWARD buttons to fast forward / fast rewind the song file.
5. Previous/next track and volume up/down can be controlled directly from your Bluetooth device or directly from the Media Player controls.

2.1.3 Bluetooth Multi-Link
A second Bluetooth Audio device can pair to the BT1 even when music is playing from the first Bluetooth Audio device.

Once paired, playing music from Device 2 will override Device 1 and the BT1 will begin playing music from Device 2.

Should you wish to play music from Device 1 again, wait 10 seconds and press play on Device 1. This process can be repeated between Device 1 and Device 2 indefinitely while both devices are paired.

2.2 Adjust Volume Level
1. Press VOLUME UP once to increase the volume.
2. Press VOLUME DOWN once to reduce the volume.
3. Press and hold either VOLUME UP or VOLUME DOWN to increase or decrease audio volume continuously.

3.1 Specifications

Supported Media:	Bluetooth Audio
Power:	4x 45W (4 Ohms), 4x 72W (2 Ohms)
Outputs:	1x Stereo Pair RCA Pre-Outs (2V), 2x 12V DC Triggers (3A)
Current Draw:	5A (Max) / 2mA (Standby)
Operation Voltage:	9.6V – 14.4V DC
Water Resistant:	Yes - IP65
Salt/Fog/UV Protection:	500hrs Stable, ASTM D4329 & ASTM B117 Compliant
Materials:	Stainless Steel Mountings

3.2 Dimensions
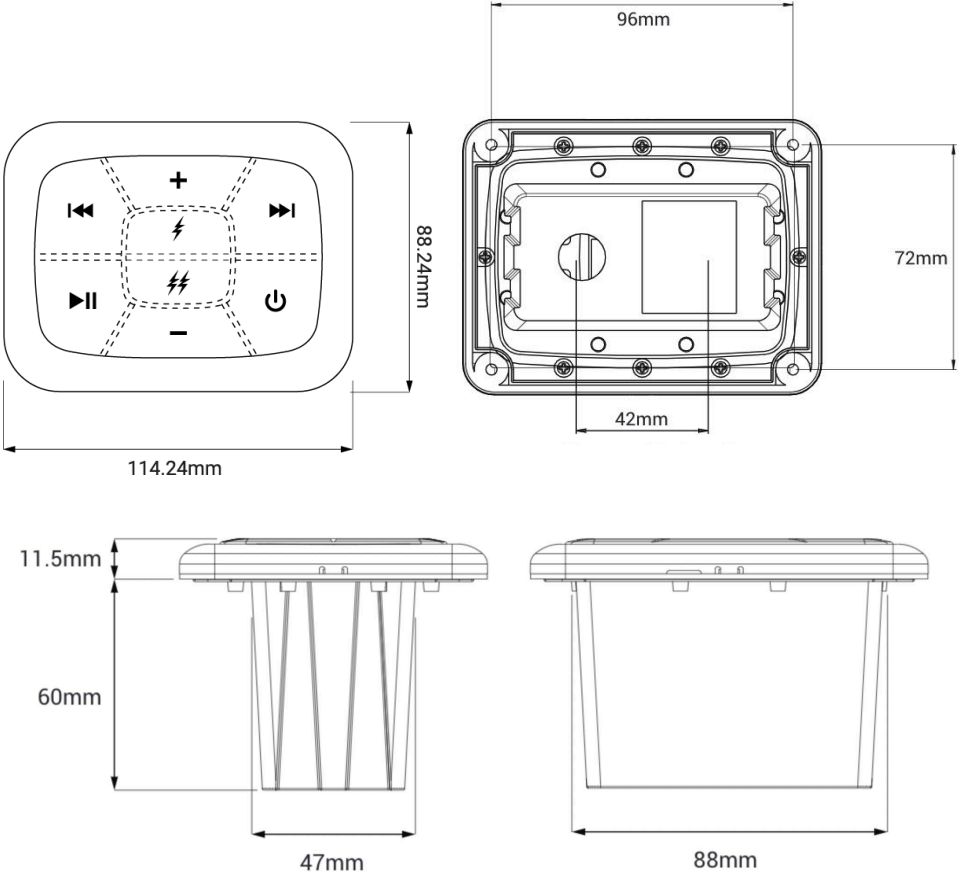
Product Registration

Register your new Aquatic AV product in order to receive a 2-year warranty. You will need proof of purchase, such as a receipt, from an authorized dealer. Additionally, you will have to provide your contact information, the date and location of the purchase.

You can submit a Product Registration form at the Aquatic AV Support Center or through the Aquatic AV App. The app is available on the App Store for iOS devices and on the Play Store for Androids.

Warranty

Aquatic AV offers a limited warranty of our products on the following terms:

Length Of Warranty

2 years on audio systems, electronics, speakers, and accessories (receipt required).

Coverage

This warranty covers only the original purchaser of a Aquatic AV product purchased from an authorized Aquatic AV dealer in the United States. In order to receive service, the purchaser must provide Aquatic AV with a copy of the receipt stating the customer name, dealer name, product purchased and date of purchase.

Defective Products

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Aquatic AV's discretion.

What Is Not Covered

- Damage caused by accident, abuse, improper operations, theft.
- Any cost or expense related to the removal or reinstallation of product.
- Any product with the serial number or tamper labels defaced, altered, or removed.
- Subsequent damage to other components.
- Any product not purchased from an authorized Aquatic AV dealer.

Limit On Implied Warranties

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for Aquatic AV any other liability in connection with the sale of the product.

How To Obtain Service

You must obtain a return material authorization number (RMA) to return any product to Aquatic AV. You are responsible for shipping charges of returned products to Aquatic AV.

FCC ID:
MADE IN CHINA
FCC Statement to the User

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 of the following measures:

1. Reorient or relocate the receiving antenna.
2. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
3. Increase the separation between the equipment and receiver.
4. 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

Product design and specification subject to change without notice. E&OE.

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