AquaFi™

Installation and Owner's Manual
(For Aftermarket Applications)

AquaFi™ Kit	
Part #	**Description**
781414	AquaFi™ Hotspot

Table of Contents

Introduction

The Taylor Made® AquaFi™ Hotspot provides boating enthusiasts with wireless Internet connectivity. A secure 2.4 GHz WiFi network connects devices to the Internet at 4G LTE speeds up to 150 Mbps. All antennae are fully contained for a splash-proof solution. The 12V DC power is sourced through a mounting dock with snap-in portability.

The AquaFi™Hotspot can be removed from its mounting dock and operated on-shore utilizing an included AC-to-DC wall plug power supply. The SIM card slot and power port are accessible by removing the side compartment cover. Compatible with 4G LTE Bands 2, 4 and 12.

Additional information about this product can be obtained from taylormadeproducts.com/aquafi.

NOTE: AquaFi Hotspot screen images are from an iOS mobile device. Screen images from an Android mobile device may appear slightly different.

Safety

Read and fully understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides

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the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the LCI limited warranty.

⚠ WARNING

THE "WARNING" SYMBOL ABOVE IS A SIGN THAT AN INSTALLATION PROCEDURE HAS A SAFETY RISK INVOLVED AND MAY CAUSE DEATH OR SERIOUS PERSONAL INJURY, SEVERE PRODUCT OR PROPERTY DAMAGE IF NOT PERFORMED SAFELY AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL.

⚠ CAUTION

THE "CAUTION" SYMBOL ABOVE IS A SIGN THAT AN INSTALLATION PROCEDURE HAS A SAFETY RISK INVOLVED AND MAY CAUSE PERSONAL INJURY OR PRODUCT DAMAGE IF NOT PERFORMED SAFELY AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL.

Parts List

NOTE: Part numbers are shown for identification purposes only. Not all parts are available for individual sale. All parts with a link to the Taylor Made Store can be purchased.

AquaFi Kit—781414			
Letter	PN	Description	Qty
A	781411	AquaFi Hotspot Assembly	1
B	781413	AquaFi Hotspot Dock Assembly	1
C	722253	120V AC/DC Power Supply	1

Resources Required

- Phillips screwdriver
- Heat gun
- Heat shrink tubing
- Four #8 pan head screws
- Two butt connectors
- Wire crimpers
- Wire strippers
- 18 AWG power and ground wire (depending on location of installation related to power source)

Fig.1

Installation

1. Make sure watercraft is dry-docked or otherwise supported above water to avoid an unstable condition created by waves.

2. Locate a mounting area that allows connection of the AquaFi Hotspot Dock Assembly's power and ground wires to the watercraft's power source without creating a strain on the completed connection.

NOTE: The mounting dock should be easily accessible with enough room to remove the AquaFi Hotspot Assembly from its dock.

3. If necessary, remove the AquaFi Hotspot (**Fig.2A**) from its mounting dock (**Fig.2B**) and set aside for later use.

  A. Slightly lift and hold the top clamping tab.

  B. Pivot the hotspot unit forward and release the clamping tab.

4. Connect the mounting dock's red power (**Fig.3A**) and black ground (**Fig.3B**) electrical wires to the appropriate wires of the watercraft's power system with crimp-style butt connectors (**Fig.3C**).

NOTE: Mounting dock electrical wires (**Fig.3A and B**) are 6" long.
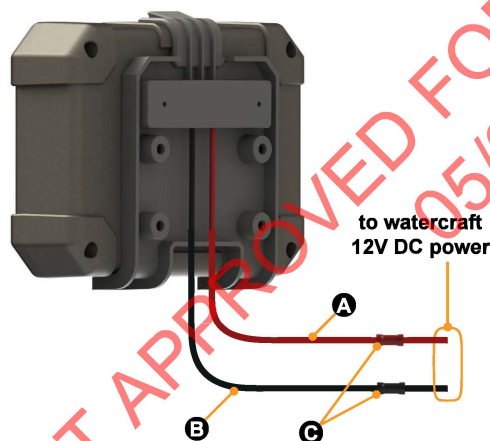
Fig.2

to watercraft
12V DC power

Fig.3

A. If necessary, use wire strippers to expose enough bare wire to make a good electrical connection within the butt connector.

B. Cut a 1 ½" long strip of heat shrink tubing. Slip tubing onto electrical wire.

C. Insert the docking wire into one open end of the butt connector, then crimp butt connector in-place using a crimping tool.

D. Insert 12V DC electrical system wire into the remaining open end of the butt connector. Crimp butt connector in-place.

E. Slide heat shrink tubing over the connection. Apply heat gun to the tubing. to seal the connection.

F. If using heat shrink/crimp butt connectors, additional heat shrink tubing is not required. Do as follows:

    I. Insert wire into butt connector.

    II. Crimp butt connector.

    III. Repeat steps I and II on the other connector end.

    IV. Use a heat gun on the butt connector to seal it against the electrical wires.

NOTE: Make sure the electrical connections are secure and protected against water.

5. Secure the AquaFi Hotspot Dock Assembly to the watercraft with four #8 pan head screws (**Fig.4A**).

Fig.4

Activation

A data package is required to activate the AquaFi wireless Internet system. Go to taylormadeproducts.com/aquafi for data plan activation. Have the IMEI (International Mobile Equipment Identity) number, Make and Model of the watercraft and a credit card available.

The IMEI number is on the product label located on the backside of the AquaFi Hotspot Assembly.

System Requirements

• Data package

• Android or iOS smart device

• AquaFi app

Preparation

AquaFi system activation requires the AquaFi app installed on a smart phone, or other smart device.

1. Download the AquaFi app (**Fig.5**) from either Apple's App Store (iOS) or Google Play (Android).

2. Install the AquaFi app onto the smart device.

3. Go to Wi-Fi settings on the mobile device (**Fig.6**), then select the hotspot's AquaFi SSID (**Fig.6A**) from the list of available wireless networks.

4. Make sure the selected network name (**Fig.6A**) matches the SSID name located on the backside of the AquaFi Hotspot Assembly (**Fig. 7A**).
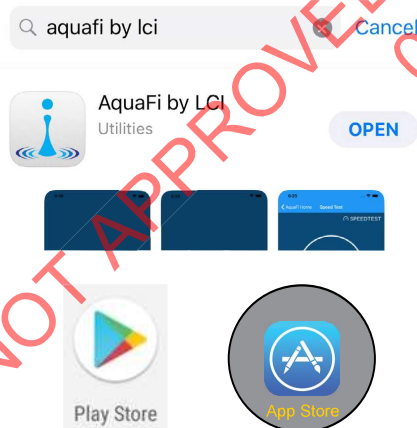

Fig.5

App Store® is a trademark of Apple Inc.
Android™ and Google Play™ are trademarks of Google LLC.

5. Launch the AquaFi app.

6. Enter the Username and Password (**Fig.8A**) printed on the product label (**Fig.7B**).
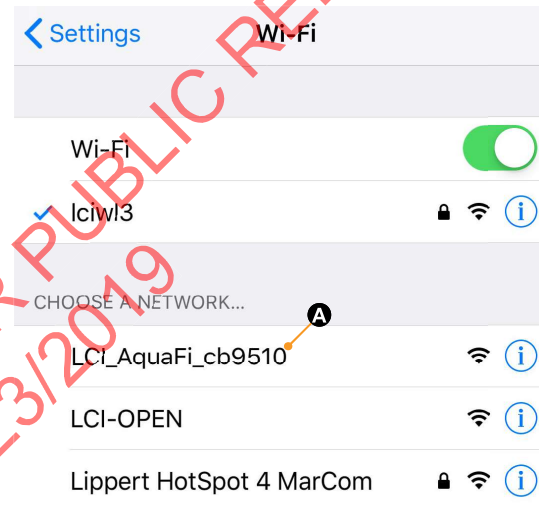
Fig.6

7. After entering the login credentials, tap the Login button (**Fg.8B**).

Fig.7

AquaFi System Activation

Activation of the AquaFi Hotspot system can be performed on land or on a watercraft.
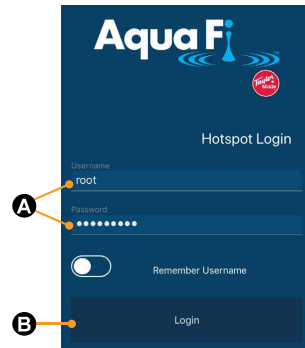

Fig.8

If activating the system on land, the 120V AC/DC power supply (**Fig.1C**) is required. Refer to the Mobile Use section.

1. Make sure watercraft is dry-docked or otherwise supported above water to avoid an unstable condition created by waves.

2. Make sure the AquaFi Hotspot is securely seated in its mounting dock. The dock should snap onto the hotspot.

NOTE: A secured AquaFi Hotspot will make good electrical connections across the mounting dock and hotspot mating contact pins.

3. Turn system power on.

4. All LEDs should light up (**Fig.9A**).

NOTE: The LEDs will flash blue as the AquaFi system boots up, then green in a steady state when the system connects to 3G/4G LTE.

NOTE: If LEDs are red, this indicates one of the following conditions exists: no service, no SIM card, 2G or less connection or APN information is incorrect.

Connecting to the Hotspot

1. After a successful connection has been established, go to Wi-Fi settings on the mobile device (**Fig.10A**), then select the hotspot's AquaFi SSID (**Fig.11A**) from the list of available wireless networks.

Fig.9

2. When prompted, enter the username and password (**Fig.12A**) located on the product label (**Fig.7B**).

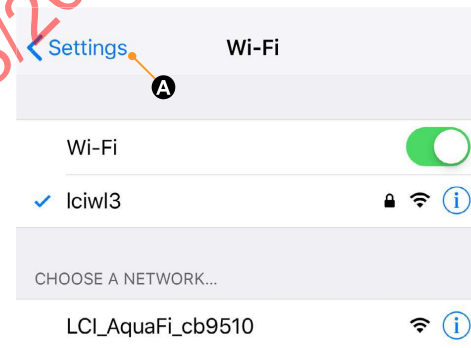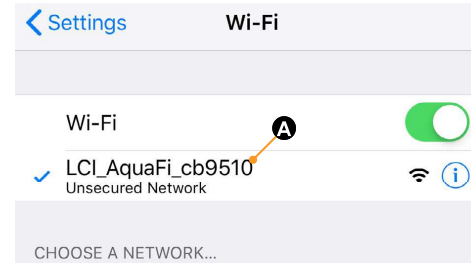**3.** After login credentials have been entered (**Fig.13A**), press the Login button (**Fig.13B**).

Fig.10

Fig.11

4. The AquaFi Home screen will display showing SETTINGS (**Fig.14A**) and BANDWIDTH (**Fig.14B**) options.
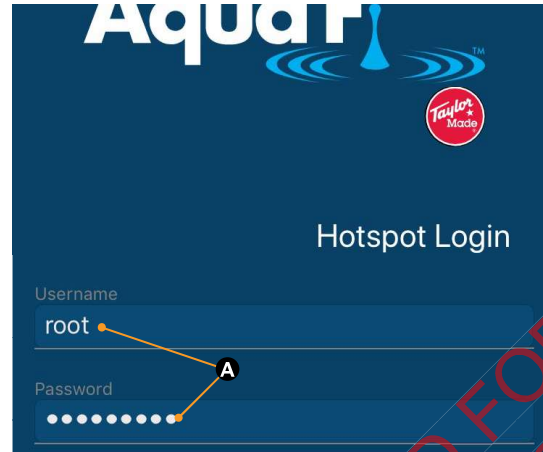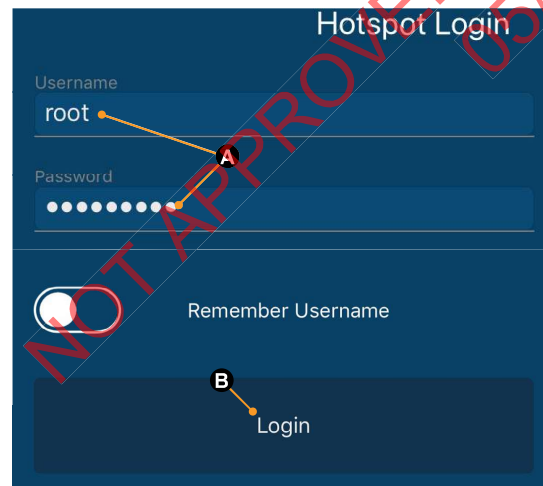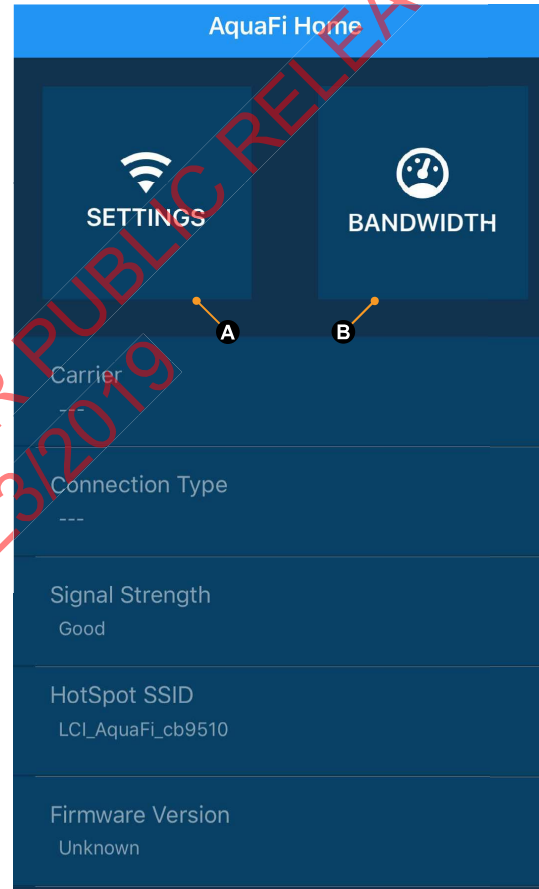

Fig.12

Fig.13

Fig.14

Changing Network Name and Password

1. From an established network connection, the Settings screen (**Fig.15**) shows three options:

   A. SSID—Change WiFi SSID and Password (**Fig.15A**)

   B. Login—Change administrator password (**Fig.15B**)

C. Advanced—View and update advanced settings (**Fig.15C**).

Fig.15

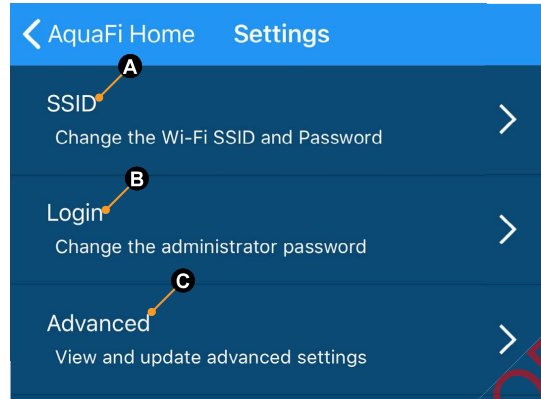**NOTE:** The SSID is the network name and Password is used to connect to the hotspot. The Login changes the administrator password used to access the mobile app—AquaFi. The Advanced settings allows viewing and updating of select advanced settings.

2. To change the WiFi SSID name, tap the right bracket (❯) to display the Change WiFi Info screen (**Fig.16**).

3. Highlight the current SSID name (**Fig.16A**), then type in the new name.

4. Next, select the Password field (**Fig.16B**) and enter a new password for the new WiFi SSID.

5. Press the Enter button (**Fig.16C**) to apply the changes or Cancel (**Fig.16D**) to retain default settings.

6. If the Enter button was pressed, the **Success** screen (**Fig.17**) will display.

7. Press the **OK** button (**Fig.17A**) to reboot the hotspot and login to the reconfigured system with the new credentials.

8. Go to the device's WiFi settings and select the new SSID network name (**Fig.18A**).

9. Enter the password for the new SSID network (**Fig.19A**).

10. To change the Login administrator password, go to the AquaFi Home Settings screen (**Fig.15**) and select the Login option (**Fig.15B**).
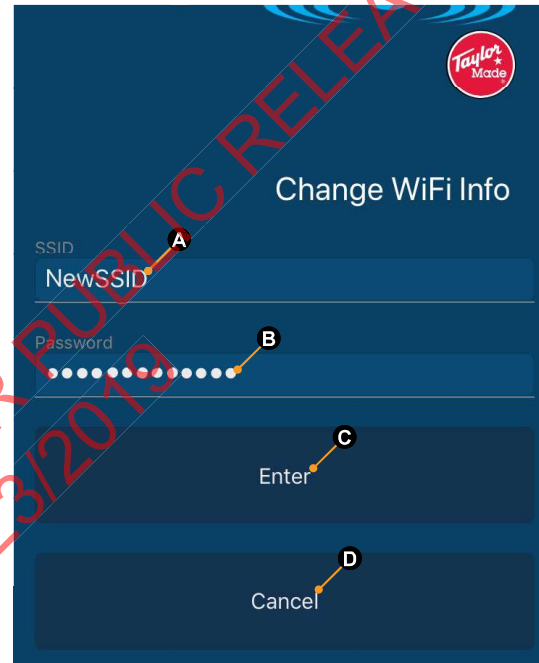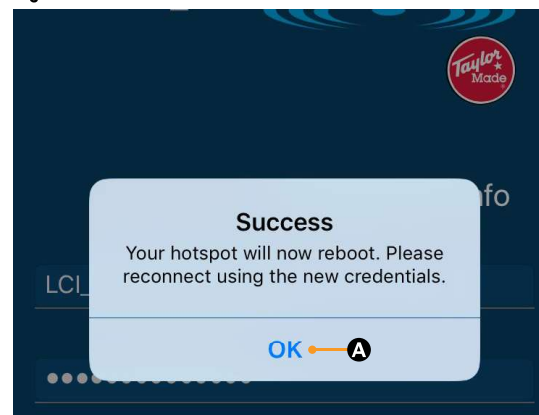

Fig.16

Fig.17

< Settings   Wi-Fi

Wi-Fi   (A)

⟳ Bub's Pontoon (AquaFi)   🔒 📶 ⓘ

CHOOSE A NETWORK...

LCI-OPEN   📶 ⓘ
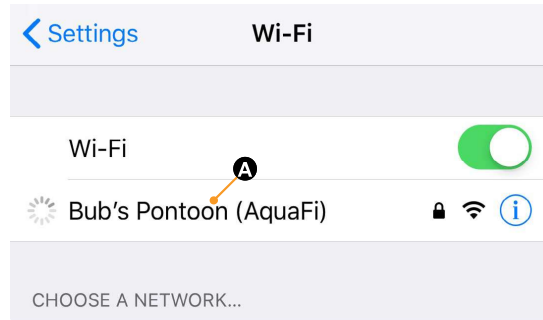
Fig.18

Enter the password for "Bub's Pontoon (AquaFi)"

Cancel   Enter Password   Join
                                         (A)

Password   ●●●●●●●●●●●●

You can also access this Wi-Fi network by bringing your iPhone near any iPhone, iPad, or Mac which has connected to this network and has you in their contacts.

Fig.19

Change Admin Password

New Password   (A)
●●●●●●●●●

New Password Again   (B)
●●●●●

Enter   (C)

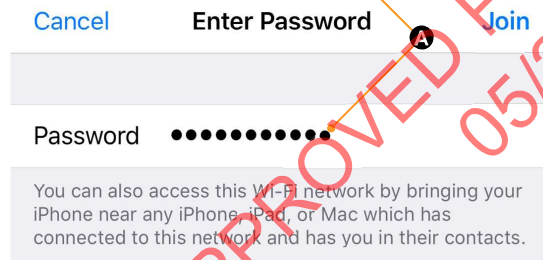Cancel   (D)

Fig.20

11. Tap the right bracket (❯) to display the Change Admin Password screen (**Fig.20**).

12. Select the New Password field (**Fig.20A**) and enter a new administrator password, then select the New Password Again field (**Fig.20B**) and re-enter the new administrator password.

13. Press the Enter button (**Fig.20C**) to apply the changes or Cancel (**Fig.20D**) to retain default settings.

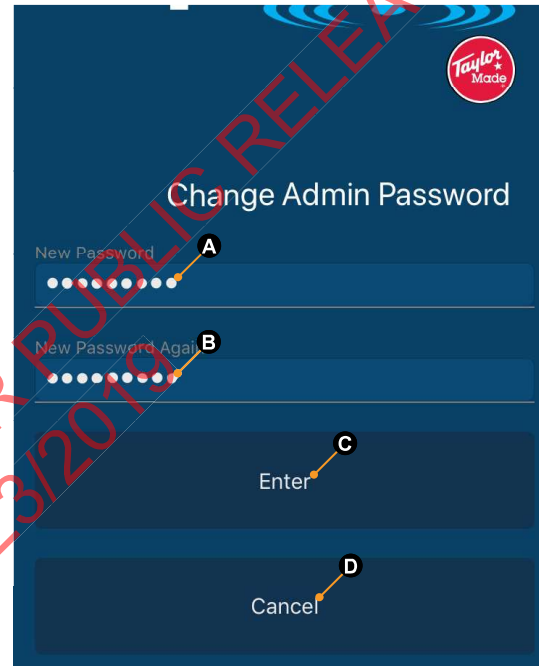**14.** To reconnect, go to Wi-Fi settings on the mobile device, then when prompted, enter the new login credentials.

Mobile Use

To use the AquaFi Hotspot on land, do as follows:

1. Remove the hotspot unit from its mounting dock (**Fig.2**).

A. Slightly lift and hold the top clamping tab.

B. Pivot the hotspot unit forward and release the clamping tab.

2. Take the hotspot and the 120V AC/DC power supply (**Fig.1C**) to a land-based 120V wall outlet.

⚠ CAUTION

REMOVAL OF ACCESS DOOR EXPOSES INTERNAL COMPONENTS TO CONTAMINATION BY WATER. WATER CONTAMINATION CAN SERIOUSLY DAMAGE INTERNAL ELECTRICAL COMPONENTS, RENDERING THE UNIT INOPERABLE. USE CARE WHEN OPERATING THE UNIT WHILE PROTECTIVE ACCESS DOOR IS REMOVED.

3. Remove the access door (**Fig.21A**) by unscrewing the two countersunk screws (**Fig.21B**).

4. Set the screws and access door aside for later installation.
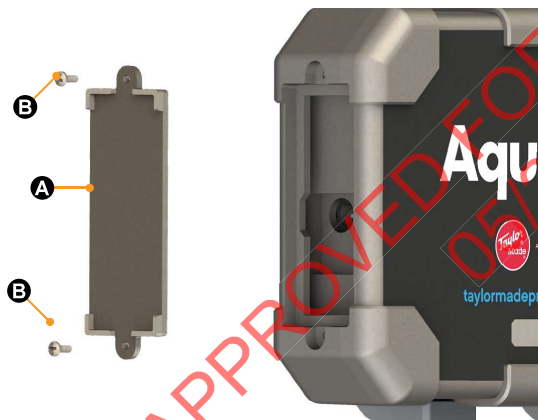

Fig.21

5. Insert the power supply's barrel connector into the hotspot's power supply port (**Fig.22A**).

6. Plug the 120V AC/DC power supply (**Fig.22B**) into a wall outlet (**Fig.22C**).

7. Go to the mobile device's WiFi settings.

A. Select the AquaFi network.

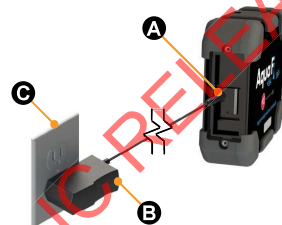**B.** Enter login credentials to reconnect to the AquaFi network.

Fig.22

Troubleshooting

Most concerns with the AquaFi Hotspot can be diagnosed by checking the indicator lights (LEDs) located on the front of the unit (**Fig.9A**). Refer to the following LED Status Chart when troubleshooting.

Maintenance

Periodically check mounting dock for cracked or missing clamping tab and cradle hooks. Replace dock, if necessary.

Turn off power to the AquaFi system. Remove the hotspot from its dock. Separately, wipe the unit and dock with a fresh-water dampened cloth. Make sure both components, and their electrical contacts, are completely dry before reattaching the hotspot to the mounting dock.

Clean system with fresh-water dampened cloths after each use in salt water environments.

Remove the AquaFi Hotspot from its mounting dock when watercraft is not in use or in storage. Keep hotspot in a dry, cool location when not being used on watercraft.

Environment	
Operating Temperature	32 °F ~ 131 °F
Storage Temperature	-40 °F ~ 158 °F
Operating Humidity	10% ~ 90%
Storage Humidity	5% ~ 95%

LED Status Chart			
LED Color	**What is happening?**	**Why?**	**What should be done?**
Blue	System is booting up.	System was off.	Nothing. This is normal.
Green	Successful network connection.	No previous network connection.	Nothing. This is normal.
Red	No service.	Out of carrier's service coverage area.	Relocate within carrier's coverage area.
	No SIM card.	Missing or damaged SIM card.	Replace SIM card.
	2G or less connection.	Weak service area.	Relocate within a stronger service area.
	Incorrect APN information.	Access Point Name (APN) has been changed or blocked.	Contact plan carrier.
No color	No power.	Hotspot not fully seated in its mounting dock.	Remove hotspot from mounting dock, then reinsert into dock.
			Make sure hotspot and dock clamps are fully engaged, creating a good electrical connection.
		Main power off.	Turn main power on.
		Obstruction between electrical contacts.	Clear any obstruction from between the mounting dock and hotspot electrical contacts.

FCC Compliance

FCC 15B 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 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:

• Reorient 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 Part 15 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 harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Non-modification Warning

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

RF Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines

This equipment should be installed and operated keeping the radiator at least 30cm or more away from person's body.