ECOXGEAR

ECOXGEAR

BC

UNDERSEAT BLUETOOTH®
SUBWOOFER

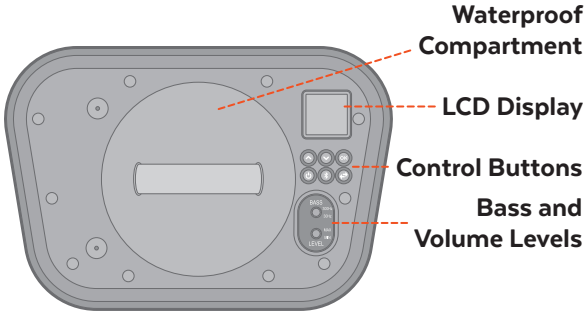
Model: GDI-EXYMHSUB01

User Guide

YAMAHA
Revs Your Heart

Quick Start

1. **Connect your subwoofer to a 12VDC power supply.**
2. **Power on your Marine FX Speakers and allow the two FX speakers to complete the EcoConnect pairing process (see Marine FX Speaker user guide for details).**
3. **Press the Power Button ⏻ on top of your subwoofer to power it on.**
4. **Connect your subwoofer to your Marine FX Speakers.**
5. **Connect your subwoofer to your Smart Device.**
6. **Play.**



CARE, MAINTENANCE, & PRECAUTIONS:

1) The unit is waterproof only when the cap is properly closed.
2) Close the cap properly before use. If the unit is placed in a water environment without the cap properly closed, water may enter into the unit and void your warranty.
3) Dry unit completely before opening the cap. Do **NOT** open the cap if wet or in a wet environment.
4) Do **NOT** apply excessive force to any surfaces of the unit when wet or in a wet environment.
5) Do **NOT** use or store the unit in places with high temperature.
6) **AVOID** prolonged exposure to ultraviolet radiation (UV sunlight) and strong magnetic fields.
7) Periodically check the rubber seal for premature wear.
8) Periodically clean the rubber with a soft moist cloth and ensure no objects such as dirt, hair, or sand are on the rubber seal ring. Do **NOT** use any oily solvent or chemicals for cleaning.
9) Rinse off the unit with tap water after use in salt water.
10) Power the unit by attaching the 12V Power In SAE Connector to the 30" Power Cable intended for use with the unit. The unit must be connected to a 12VDC power source. If the battery terminal voltage is not 12V, you will need a DC-DC converter with output **12V/10A**. Connecting the unit to a non-12VDC power source will lead to a malfunction or damage to the unit.

LIMITED MANUFACTURER'S WARRANTY:

The Underseat Bluetooth Subwoofer is covered by a 1-year limited warranty that covers defects in workmanship and / or materials for a period of 1 year from original purchase date with the exception of the unit's battery. The unit's battery is covered by a conditional 6-month warranty.

This warranty does not apply to any products which have been abused, neglected, modified, or used for a purpose other than the one for which they were manufactured. Please refer to the above care and maintenance instructions for suggested care details. The warranty is valid only for the original owner who purchases the unit from an authorized dealer. Transfers do not qualify for warranty protection. Grace Digital reserves the right to replace any out-of-stock or discontinued product with a comparable product. Discontinued products may not be available for warranty replacement. Any contents are **NOT** covered by the limited manufacturer's warranty. Warranty terms may be revised without notification at the discretion of the manufacturer. Please visit www.ecoxgear.com for additional product & warranty information.

RoHS

Underseat Bluetooth Subwoofer by ECOXGEAR, a division of Grace Digital Inc., San Diego, California. Designed and Engineered in the USA. Made in China.

Patent Pending.

SAFETY ADVISORY & WARNING:

Read and follow all instructions. Use only as intended.

CAUTION: Do **NOT** open to repair. A qualified technician must carry out repair work.

ATTENTION: Do **NOT** connect to a 12VDC power supply while the unit is wet. Make sure all connections are dry **BEFORE** connecting to a power source. Failure to do so may result in electrical damage to the unit and may void the warranty.

PROPOSITION 65

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

ATTENTION: Do **NOT** dispose of in a landfill. Contact Grace Digital at www.gracesupport.com or a certified recycling agent to dispose of the unit.

SAFETY:

This product has a limited life span of use and should be replaced when it shows obvious signs of wear.

Do not modify or remove any original component parts of the subwoofer. Doing so could cause damage to the unit allowing water to ingress. A unit with water ingress should not be charged due to potential risk of fire or shock.

Please exercise care and good judgment when using your subwoofer. Audio levels should be appropriate to your environment, comply with all local regulations, and always ensure that you can hear and be aware of any potential hazards around you.

You should always

1) Use the subwoofer in accordance with any music or noise rules and regulations.
2) Properly seal the unit prior and after each use when in humid or water environments to avoid water damage to the internal components. Salt water / air is particularly corrosive. Always make sure that the gaskets are sealed when in salt water environment and the unit properly rinsed off after use.
3) Properly clean the ECOXGEAR and ensure the gaskets have no sand, dirt, or water on them prior to storage or removing the back cover.
4) Store your unit with all caps properly sealed to avoid long term internal moisture damage inside your unit.
5) Return the ECOXGEAR to Grace Digital if you suspect water ingress into the unit or if the unit has experienced a severe impact that may have affected the integrity of the unit to take on water.

You should never

1) Never power your ECOXGEAR unit if you suspect water has entered the device. Powering a device with water inside could be potentially hazardous and cause fire or a spark.
2) Never use your ECOXGEAR if you have dropped it or thrown it against a hard surface which may have destroyed the integrity of the subwoofers, housings, or gaskets. In the event of a severe impact to your unit please return the unit to Grace Digital to review for potential damage.
3) Never open the cap in a water environment. This could cause water to ingress into the unit which could potentially be hazardous and cause a fire or a spark.
4) Never attempt to fix, repair your ECOXGEAR unit. Please send it back to Grace Digital for any assessments and repairs.

Connecting to 12VDC Power Supply

The Underseat Bluetooth Subwoofer does not have an internal battery. It must be connected to an external 12VDC power supply to function. When you install the subwoofer to a battery or a voltage regulator on a Yamaha WaveRunner, you need to make sure that your WaveRunner battery or battery pack terminal voltage is 12VDC. If the battery terminal voltage is not 12V, you will need a DC-DC converter with output 12V/10A Connecting the subwoofer to a non-12VDC power source will lead to a malfunction or damage to the subwoofer.

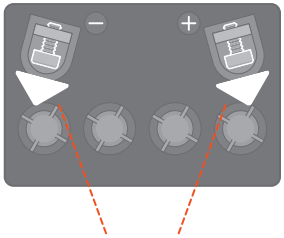
WARNING: Even when powered off, the subwoofer will draw a small amount of power from your battery. To prevent draining your battery when your subwoofer or powersports vehicle are not in use for more than 48hrs, we suggest unplugging the subwoofer from the battery or adding toggle switch. (Toggle switch sold separately.)

Installation

1. Loosen the bolts on the battery terminals.

Use Caution: Do **NOT** attempt to loosen bolts if battery is wet. Contact may cause electric shock and injury if wet.

2. Connect the **BLACK** wire to the **BLACK**, negative terminal, then the **RED** wire to the **RED**, positive terminal. Unit will not work correctly and may be damaged if wires are not correctly attached.

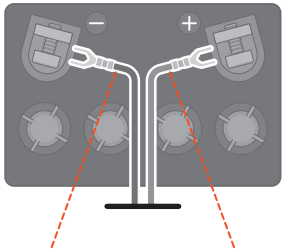


3. Tighten the bolts on the battery terminals until the connectors are held firmly in place.
4. Clip the Power Cable in the provided self-stick clip. Remove the adhesive backing paper and attach the clip to the underside of the deck. The Cable can slide within the clip to get sufficient length as needed for connecting to the subwoofer.
5. Attach the 30in Power Cable to the 12V Power In SAE Connector.

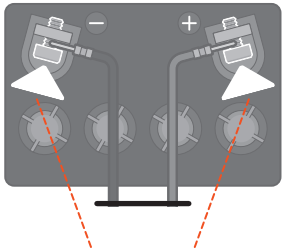
Use Caution: Do **NOT** connect to 12V Battery if the Power In SAE Connector is wet. Contact may cause electric shock and injury if wet.

NOTE: When the battery voltage is lower than 11.6V, the battery icon on the subwoofer LCD Display will flash, and the connected Marine FX Speaker will announce, “Battery low,” 3 times.

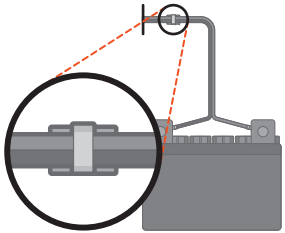
When the battery voltage is lower than 10.8V, the subwoofer will automatically turn off.



Black Cable Red Cable



Tighten Bolts



Run Cable Through Clip

FCC 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.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority 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: 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.

RF WARNING STATEMENT:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

IC STATEMENT:

This device complies with Industry Canada licence-exempt RSS standard(s). 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 the device.

PRODUCT USE AND PROTECTION:

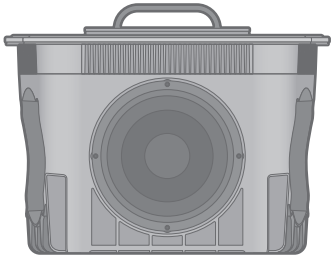
Read and follow all instructions. Use only as intended.

The Underseat Bluetooth Subwoofer is intended to be used indoors or outdoors and in land or water environments. The subwoofer has been tested to **IP67** waterproofing standards. However, the subwoofer is **NOT** intended for constant underwater use.

Always make sure the cap(s) / covers(s) are clean, free from sand or debris, and correctly fitted. The subwoofer will only meet **IP67** ratings if all rubber seals, gasket(s), and cover(s) / cap(s) are in place. If you notice a muffling of audio after submersion, gently shake the unit to clear excess water. If your subwoofer is exposed to salt water, clean it thoroughly after use with fresh water.

To prevent fire or shock, do **NOT** attempt to power this unit if you suspect water has entered the unit. In this situation, please return the unit to Grace Digital for a free assessment. If we have found that the unit has carried water, we will repair or replace the unit free of charge.

What's in the Box



Underseat Bluetooth Subwoofer

User Guide

30" Power Cable

Connect Power Cable to Power In SAE Connector

15 Amp Blade Fuse

The subwoofer has a 15 Amp Blade Fuse in a waterproof Fuse Holder on the SAE connector cable. In the case of a blown fuse, remove the 15 Amp Blade Fuse from the Fuse Holder.

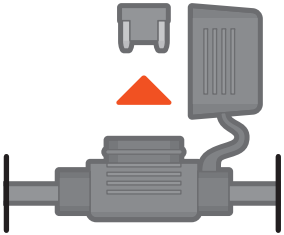
Use Caution: Do **NOT** remove Fuse if the Fuse Holder is wet. An improperly fitted cap may cause electric shock and injury if wet.

To close properly, push firmly to be sure the cap snaps into place.

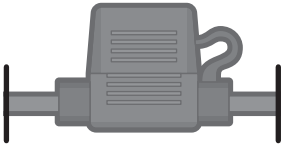
Low Battery

When the battery voltage is lower than 11.6V, the battery icon on the LCD Display will flash, and the Marine FX Speaker will repeat, "Battery low," 3 times.

When the battery voltage is lower than 10.8V, the subwoofer will automatically turn off.



Remove Blown Fuse



Close Cap Firmly

Control Buttons & Operations

On/Off ⏻

Press ⏻ once to power ON.
Press ⏻ for 3 seconds to power OFF.

Bluetooth ✱

When turned ON, the subwoofer will power on and search for your Bluetooth. Refer to **Bluetooth Pairing & Your Audio** for details.

Wireless Connection with Marine FX Speakers ⇄

This Subwoofer is designed to connect with a pair of ECOXGEAR Marine FX Speakers, creating a complete audio system. Refer to **Wireless Connection with Marine FX Speakers** for details.

Making Selections

Use ∧ & ∨ to highlight a Marine FX Speaker to connect to, or to switch between pairing with <ONE Speaker> or <TWO Speakers>, on the LCD Display.

Press **OK** to make selections on the LCD Display.

Bass & Volume Levels

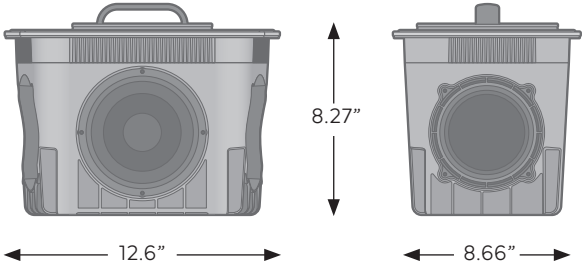
Use the knobs to increase and decrease the Bass (between 30Hz to 300Hz) and Volume Levels.

LCD Display

The LCD screen displays Bluetooth pairing status, wireless connection with Marine FX Speakers status, and external battery status.

Specifications

Unit Dimensions



Unit Weight
10 pounds 11 ounces

Output Power
100W Peak

S/N Ratio
88dB +/- 3dB

Power Supply
Input Voltage: 12VDC, 10A (requires connection to external DC battery for power)

Blade Fuse
15A, 32V

Frequency Range
30Hz-300Hz

Bluetooth
Bluetooth® CSR 5.0
Up to 100 ft / 30 m

Recommended Storage Temperature
59°F / 15°C

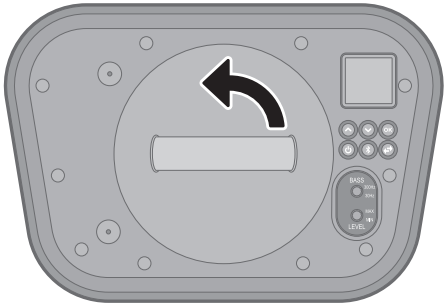
Operating Temperature
23°F to 104°F / -5°C to 40°C

Waterproof/Dustproof Rating
IP67

RECOMMENDATION: If you are not familiar with Bluetooth pairing for your Smartphone or other Smart Device, refer to the User Guide for your Smartphone to learn how to add and pair a new device (the Underseat Bluetooth Subwoofer, for instance) to your Smartphone using Bluetooth.

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Any changes or modifications not expressly approved by the party responsible for compliance
could void the user's authority 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:
-- 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.
To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.
FCC ID: 2AAUI-GDIEXYMHSUB01

Waterproof Case



Open Case

To open and access the waterproof case, grab the handle firmly and turn the lid, counter-clockwise.

Important: Maintaining Waterproofness

If the case is not properly closed, the unit is **NOT** watertight.

To ensure the unit is watertight & waterproof, **ALWAYS CLOSE THE CASE PROPERLY** before use.

To close the lid properly, secure the lid into place, grab the handle firmly, and turn the lid clockwise.

Wireless Connection with Marine FX Speakers

This Subwoofer is designed to connect with one or a pair of ECOXGEAR Marine FX Speakers, creating a complete audio system. In order to transmit music to the Marine FX Speakers, complete the following steps:

1. Power on your Marine FX Speaker(s). If you choose to pair both Marine FX Speakers, allow the two speakers to complete the EcoConnect pairing process. (Refer to your Marine FX Speakers user guide for details).
2. Press the Bluetooth button on one of the Marine FX Speakers, putting it into pairing mode.
3. Press Bluetooth Transmit button on the subwoofer. The Transmit icon will flash.
4. Available Bluetooth connections shall appear on the subwoofer LCD screen. Use the ^ or ˇ buttons to select ECOXGEAR from the list of discovered devices, if needed. Press **OK** to connect. Wait for a few seconds until the connection is completed. The Transmit icon will stop flashing and the Marine FX Speaker will announce, “Connection successful.”
5. Pair your subwoofer to your smartphone.

NOTE: The default wireless connection setting is <TWO Speakers>. If only one speaker is connected to the subwoofer, **PRESS & HOLD** both ^ and ˇ buttons for approximately 5 seconds until <ONE Speaker> appears on the LCD screen.

Pair and Connect Subwoofer to your Smart Device

Connecting With Bluetooth: Connect To Your Smart Device & Play Audio

When your subwoofer is turned on, the Bluetooth icon on the LCD Display will flash, indicating that it is ready to pair.

Turn on Bluetooth on your Bluetooth device (Smart Device) and set the device in pairing mode. Available Bluetooth connections shall appear. Select SUB-ECOXGEAR from the list of discovered devices on your Bluetooth device. Wait for a few seconds until the connection is completed.

NOTE: Bluetooth connection feature is found in the Settings section of most mobile phones and other Bluetooth enabled devices.

When the SUB-ECOXGEAR selection is made and the Bluetooth connection is completed, the Bluetooth icon will stop flashing.

Pairing Mode

If the Bluetooth icon is not flashing or if you wish to place your subwoofer in pairing mode, press and release the Bluetooth button on the top panel. The Bluetooth icon will flash on the LCD Display, indicating that the subwoofer is ready to pair.

NOTE: Your subwoofer shall sync & wirelessly pair with most Bluetooth enabled devices. The unit remembers the last device paired and will automatically search for previous connections when the subwoofer is turned on or when a device comes back into Bluetooth range. If a connection is lost due to range, the subwoofer will look to re-establish that connection. If Bluetooth is turned off on your Smart Device, the subwoofer may not automatically look for the device.