

Installation Guide

Step 1 - Before beginning, check that the following items are present:

Qty	Item
1	BAD BOY Xtreme Wi-Fi device including: <ul style="list-style-type: none">1 Grommet seal, rubber (inside end cover)1 Grease, dielectric, packet (inside end cover)
1	Antenna with mounting nut
1	Optional Mount
1	Optional Cable
1	Optional Power Injector with AC cord
1	Optional Junction Box or Inline Coupler consisting of: <ul style="list-style-type: none">1 Terminal block with cover2 Tie wraps, white1 Wire stripper / punch down tool, plastic
1	Bitstorm Contact Info Card



Step 2 - Device Test and Verification – Doing this prior to installation can save time and effort.

- Check off items when completed.
- Remove the protective cap from Antenna connector and attach to BAD BOY Xtreme Wi-Fi device by screwing the connectors together. Finger tight is adequate. **Do not over tighten.**
- Unscrew the white cover from the other end of the BAD BOY Xtreme. If a cable option was included and has the 12V splice, connect the *unhooded* (PoE) end. If an injector was included in your kit, either cable end can be used.
- For the 12V cable option, attach a 12V power source, red wire to positive, black wire to negative.
- Verify that the BAD BOY Xtreme's green power LED illuminates.
- If using the 12V cable option, connect the *hooded* end to a computer's ethernet port. If using the optional injector, connect as shown in its connection diagram. Observe that the green LAN LED on the BAD BOY Xtreme illuminates.
- Ensure the computer is set to use DHCP (typical) and verify that an IP address has been assigned. Refer to the BAD BOY Quick Start Guide.
- Surf the web to verify your BAD BOY Xtreme is operating correctly. Proceed with installation only after correct operation has been determined.



Step 3 - Installation and Cable Routing

- Determine the best location for the unit. Can be any place convenient or suitable with higher being better.
- Using the items contained in the Universal Mounting kit, attach the mount such that the antenna will be vertical. The rubber strip can be used to provide additional rail mount gripping. **Notes: Not all parts supplied may be needed. Depending on your setup, different screws, anchors, etc. may be required. When installing at the top of a mast with a wind vane, ensure that the installation will not interfere with its rotation.**
- Install the Antenna and secure it with the washer and nut. Maximum performance will be achieved with the antenna vertical.
- Attach BAD BOY Xtreme onto the Antenna. Orient the LEDs as needed for best viewing as desired.



Note: If mounting at mast top, adjust the BAD BOY Xtreme such that the LEDs face toward the mast thus hiding them. Other boats might confuse the LEDs with mast head lights at night.

Note: Some of the following steps may be optional for your installation

- Estimate the amount of cable needed to get from the mounting location to the deck transit location (the place where the cable will go through the deck) and then to a convenient place for splicing below deck. Ensuring that sufficient cable length is remaining for the distance to where the computer is to be located cut the cable. If no through deck fitting will be used or if it is large enough to allow the cable connector to pass through, no cutting may be required. **Note: Do not use excessive force when pulling the cable through conduits, etc. Avoid pulling the cable's connector end through conduit. Do not pull the cable's power connection point through conduit to prevent strain to the splice. Although permitted, there is no need to strip excess cable. It is recommended to simply coil and secure any extra cable. Do not make sharp bends in the cable. When changing direction, bends should never be sharper than the round edge of a standard screw driver handle. Avoid the use of a staple gun – if the insulation is pierced, the cable can be rendered useless.**
- Do NOT plug the connector into the BAD BOY Xtreme yet. This will be done later.
- Route the remaining cable from the location where the computer will be to the transit location leaving the hooded connector where the computer (or optional BAD BOY Unleashed) will be.
- Retrieve the Junction Box kit. Using the tool included, strip back about 1 inch (2.5cm) of the outer jacket from cable ends. Rotate the tool around the cable to make a clean cut all the way around. There is no need to strip the insulation from the individual wires. Refer to photo.
- Connect the wires to the terminals using the metal tip of the included tool. Simply lay the wire onto the spade and push down with the tool. The spade will pierce the insulation thus making electrical contact. Ensure that both cables have the same colour wire connected to the same pin number on both left and right sides. Pin numbers may be on the actual block or on the cover. If the Junction Box has wire colours shown next to the spades, these can be used as a guide as well. If there is a choice of A or B, pick one. Refer to photo. Note: Junction Box may not be exactly as shown. Although not required, you can use the following 'B' option wiring order:

1	Orange/White	5	Blue / White
2	Orange	6	Green
3	Green / White	7	Brown / White
4	Blue	8	Brown
- Secure the cable into the Junction Box using the included tie wraps to prevent stress and snap the cover in place to complete. To separate the cable at a later time, simply snap open the cover and pull each wire from its spade on one of the cables.
- Connect a power source to the red (positive) and black (negative) wires. The voltage source must be between 10 and 20 VDC.
- To prevent corrosion, apply supplied dielectric grease to the contacts of the device cable end connector (non-hooded end).
- Slide the bottom cover over the cable end and plug the cable into the bottom of the device. Observe that the power LED illuminates. Investigate if it does not.
- Standard Antenna Adapter: Screw the adapter onto the 1" 14 post. Rotate the device counterclockwise 6 turns. This will allow the cable to unturn as the Xtreme is screwed onto the adapter.

If using other than the Standard Antenna Adapter: Screw the bottom cover on snugly (**do not over tighten**). Seal the cable opening using the white Grommet. Ensure that the grommet is seated fully to make a weather tight seal.
- Plug the hooded end of the cable into the ethernet port of the computer. Refer to the BAD BOY Quick Start Guide for operation.
- Once everything checks out, screw the Junction Box's cover on and complete any remaining tasks such as tie wrapping cable (if required), silicone sealing transits (if required), etc.

