



# **Outdoor Bluetooth Amplifier Build Guide**

## **Assembly Instructions**

## Tools needed:

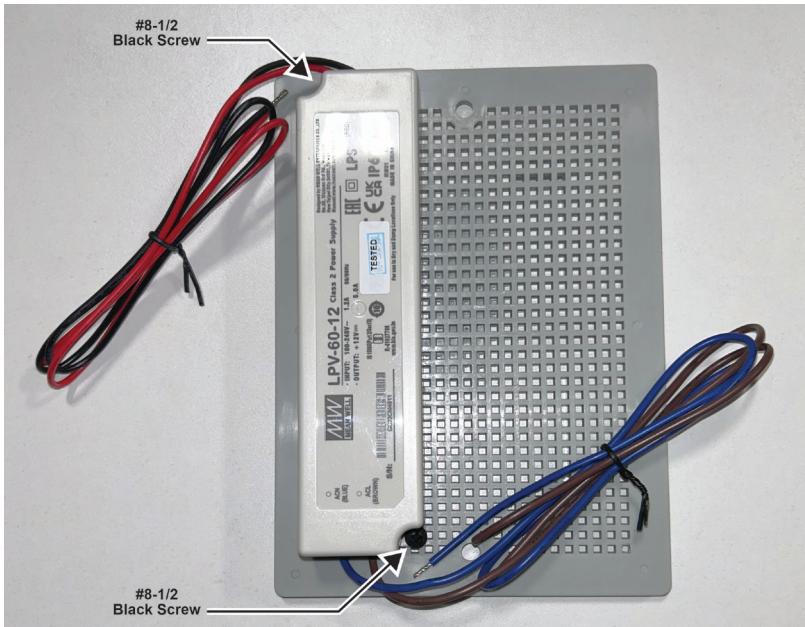
- Variable speed drill with 5/8" bit and #2 Philips bit – stepper bit, hole saw bit, spade bit, or standard bit.
  - Wire cutter with 18 - 14 AWG wire stripper
  - Phillips screw driver with #1 or 2 bit for hand tightening
  - 3/4" and 7/8" (19 and 22 mm) wrench
1. Read through all the instruction before starting. All the parts are pictured below. For safety we decided to use three P9 feedthrough wire glands instead of two different sizes.



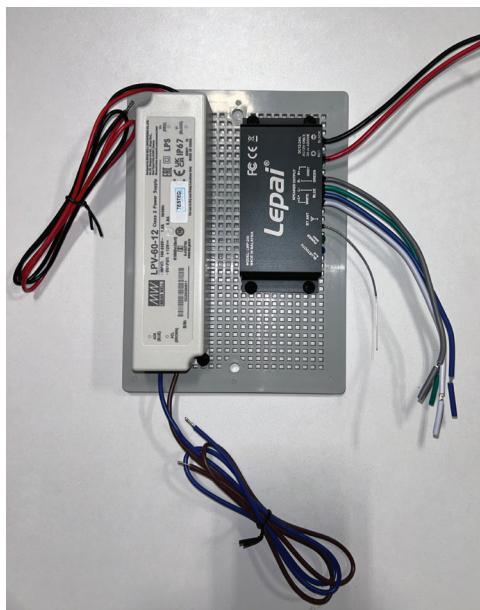
2. Remove the mounting grid from inside the box with a drill or screwdriver.



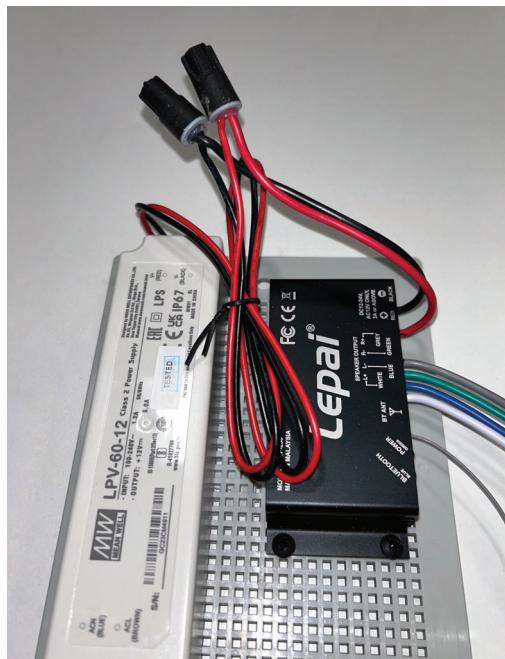
3. Install power supply all the way to the left of the grid with the red and black wire facing up using two of the #8-1/2 black screws.



4. Install the amplifier to the top right of the grid using four of the included #8-1/2 black screws with the wires to the right. Space the amp four holes from the power supply.



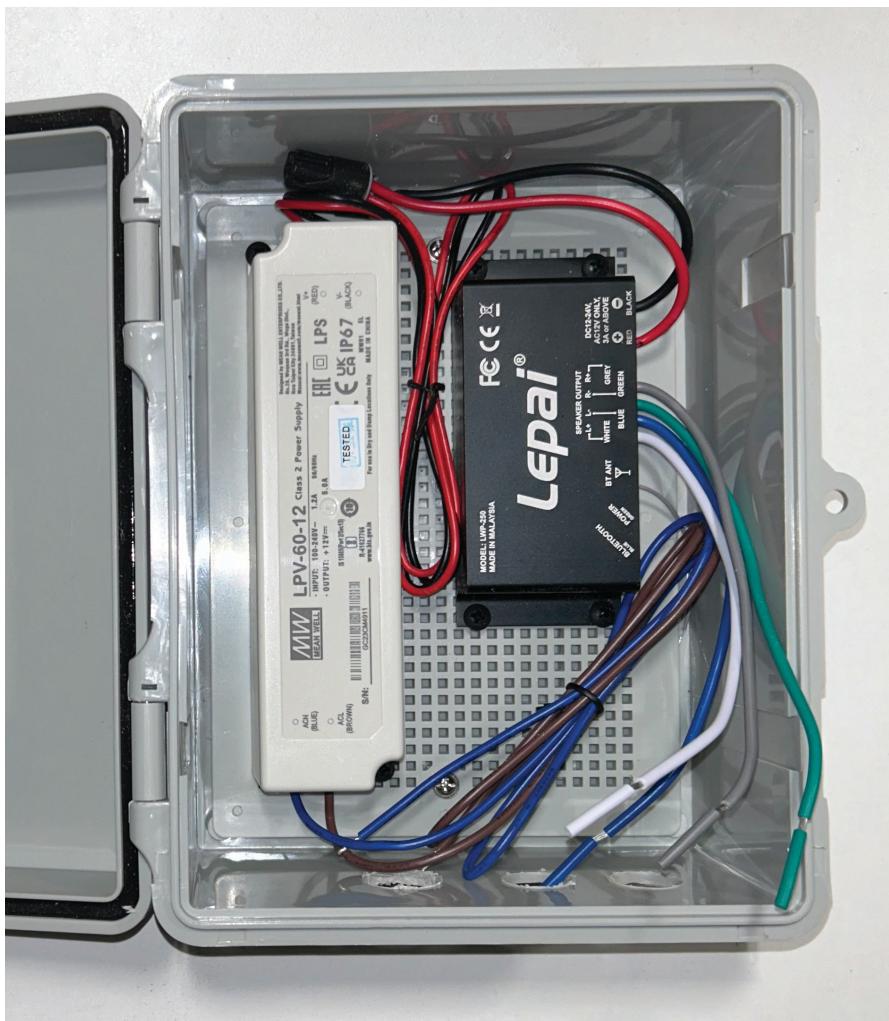
5. Connect the stripped red and black wires from the power supply and amp together with the included wire nuts. Trim the bare wires to the same length..



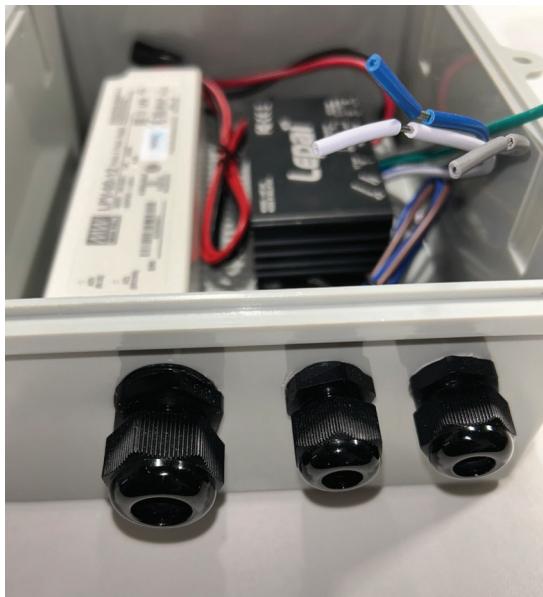
6. Drill three 5/8" holes for the P9 feed through waterproof cable glands.
  - a. The first hole should be 1" from the right side and 1" from the front of the open box.
  - b. The second hole should be to the left 1-1/4" from the first hole.
  - c. The third hole should be 1-1/4" from the second hole



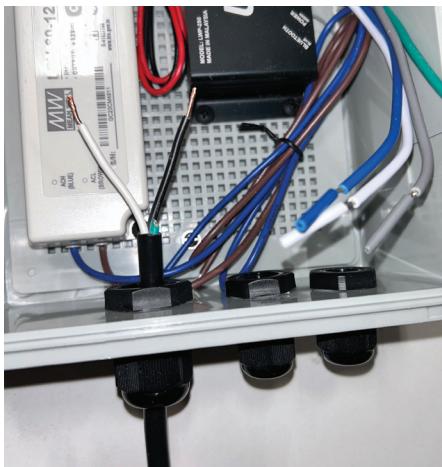
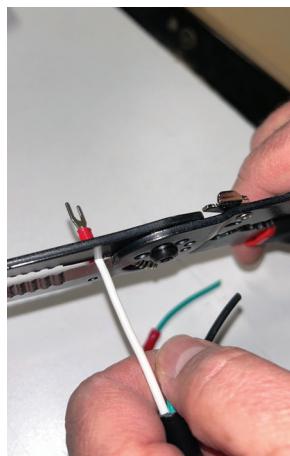
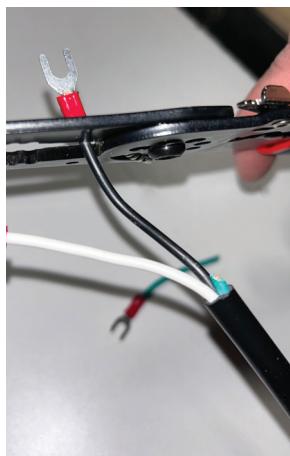
7. Install the grid to the inside of the waterproof utility box with the included silver machine screws that were removed earlier. Don't over tighten.



8. Install the three P9 waterproof feed through cable glands into the three holes made in the box with the rubber gasket on the outside of the box. Hand tighten the nuts, then secure with a wrench if needed.



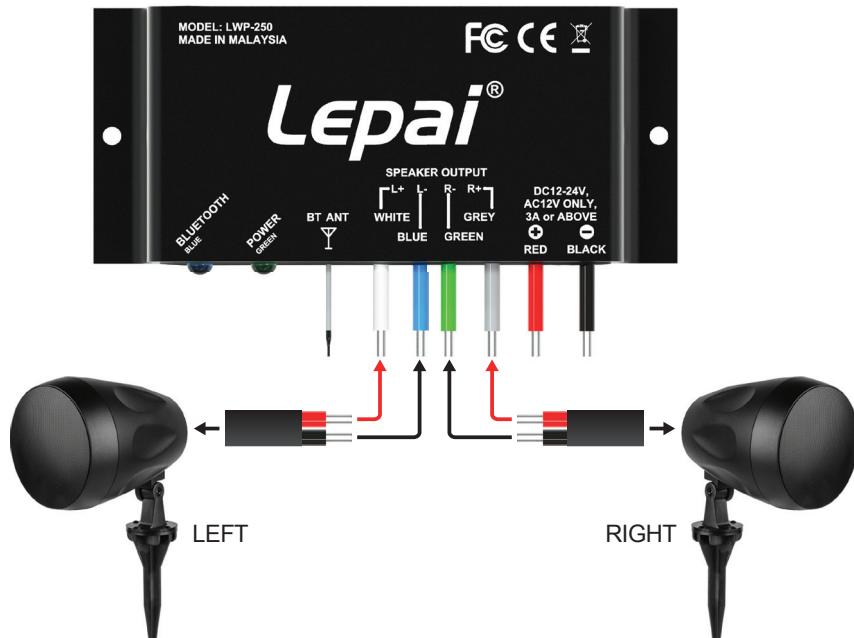
9. Prepare the AC cord for installation.
  - a. Clip the green wire off next to the black outer jacket.
  - b. Clip the forks off the white and black wire.
  - c. Strip 1/4" of the white and black insulator of each wire
  - d. Run the AC cord through the P9 gland so that 1/2" of the black outer jacket is inside the box.
  - e. Hand tighten the P9 wire gland around the black outer jacket so the wire doesn't pull out which also prevents moisture from entering the box. Carefully use a wrench if needed. Don't over tighten.



10. Connect the AC's white wire to the power supply's blue wire, and the black wire to the brown wire using the included wire nuts.



11. Install the outdoor speaker wire (sold separately) through the P9 glands and wire them to the amp following Left/Right and plus/minus silk screen. See wiring diagram below. Once they're installed tighten the gland nuts so the wires don't pull out easily which also prevents moisture from entering the box. Tuck in the AC wires to the left of the power supply away from the amp.



There're many options that you can add to this project to meet individual needs.

1. Outdoor timer to turn the amplifier on during the times that you would be using it.
2. You could turn the amplifier on/off with a light switch that controls your outdoor lights, therefore you wouldn't need the AC plug since you would wire it directly to the light's box.
3. You could mount a waterproof switch to the amplifier box by drilling another hole in the bottom of the box and turn it on/off that way.

