

# FANNIE

User Manual



English

# INTRODUCTION

Fannie is the first 12V cooling fan specifically designed to cool car audio amplifiers. The low profile form factor and wide airflow cross-section allows for a flat channel of air to flow across amplifier heat sinks. Fannie offers simple positive and negative input power and can handle up to 18VDC.



## WARNING

Sparked Innovations recommends that you have a qualified 12-volt technician or specialist install your Fannie. Any deviation from these installation guidelines could cause damage to oneself, your Fannie, vehicle, or accessories. Damage caused due to improper installation is not covered under warranty. Fannie is not waterproof; as a result, Sparked Innovations does not recommend underhood or exterior mounting. Externally mounting the unit may cause a person to suffer ridicule from friends and risks the possibility of becoming an internet meme.

# INSTALLATION GUIDE

## Running Power Wire

1. Disconnect the vehicle's Negative (-) Battery Terminal from the Negative (-) Battery Post to reduce the risk of sparks flying
2. Choose an interior mounting location for your Fannie
3. Check and double check what's behind your mounting surface before drilling to avoid screwing into wires or fuel tanks
4. Mount and secure your Fannie housing using four M4 or #8 screws
5. Select an appropriate gauge power wire to run from the Positive (+) Battery Post to your Fannie. Minimum recommended wire gauge is 18 AWG (for runs up to 20ft)
6. Connect the Positive (+) Power Wire to the Positive (+) Battery Post
7. Install an Inline Fuse Holder on the Positive (+) Power Wire within 18 inches of the Positive (+) Battery Post (leave the fuse out of the fuse holder until the installation is complete)
8. Connect the Ignition Wire to the Ignition terminal on your Fannie
9. Run the Positive (+) Power Wire from the Inline Fuse Holder to your Fannie

If running the Power Wire through the firewall or interior body panels of a vehicle, be sure to use an appropriately sized grommet

10. Connect the Positive (+) Power Wire to the red wire of your Fannie
11. Find a clean Negative (-) Grounding Location to ground the Negative (-) Power Wire

We recommend grounding directly to the Negative (-) Battery Post, vehicle's metal body, or a bare metal spot on the chassis. The Negative (-) Power Wire length should be as short as possible. Minimum recommended wire gauge is 18 AWG for runs up to 20ft

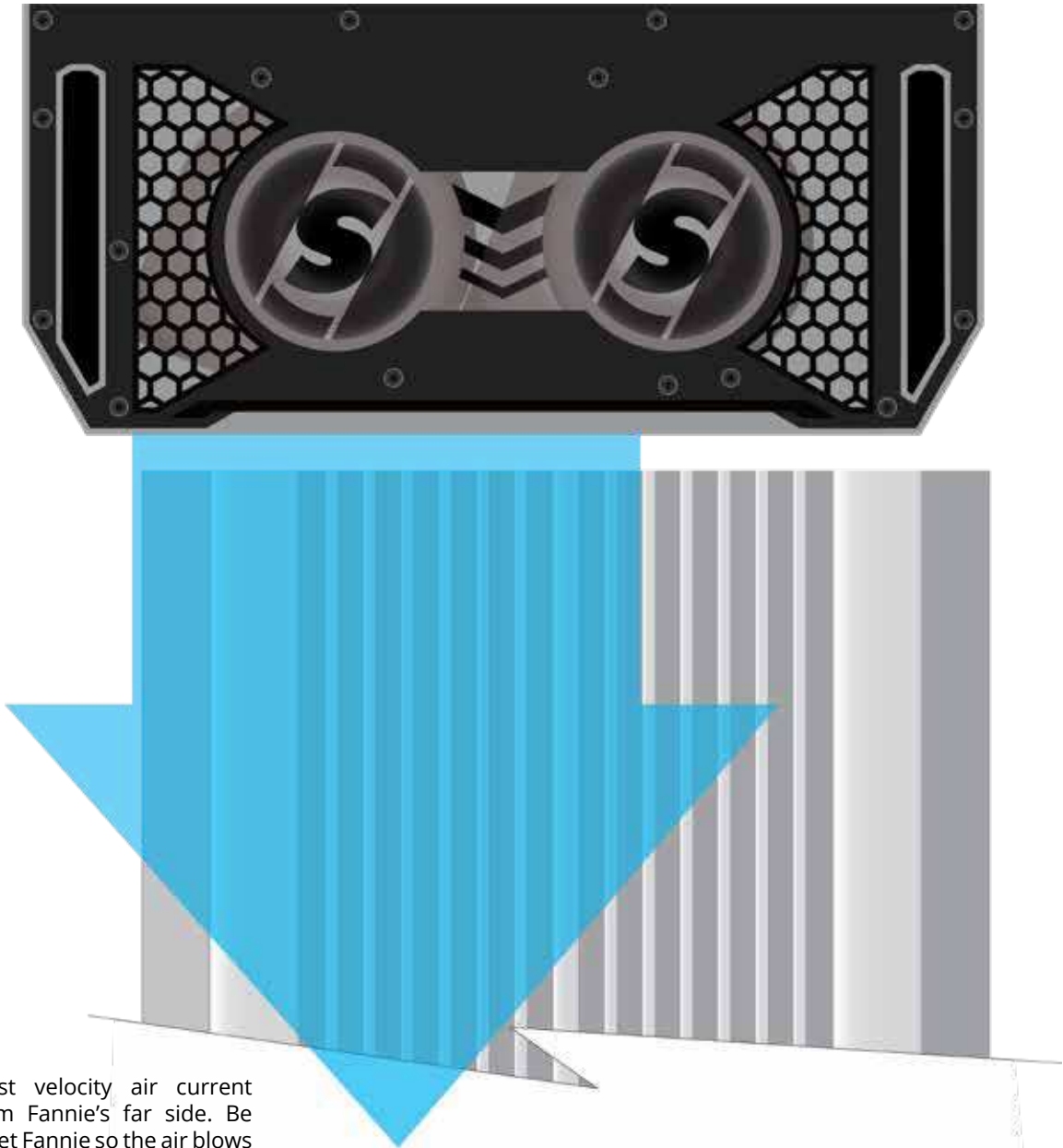
12. Connect the Negative (-) Power Wire to the chosen Negative (-) Grounding Location
13. Run the Negative (-) Power Wire from the Negative (-) Grounding Location to your Fannie
14. Connect the Negative (-) Power Wire to the black wire of your Fannie

If running your Fannie on a switch, make sure the switch is rated at 5A or above. Otherwise, run it to a relay that is rated at at least 5A. We recommend the use of a Sparked Innovations RBX-4CH relay box for easy switching.

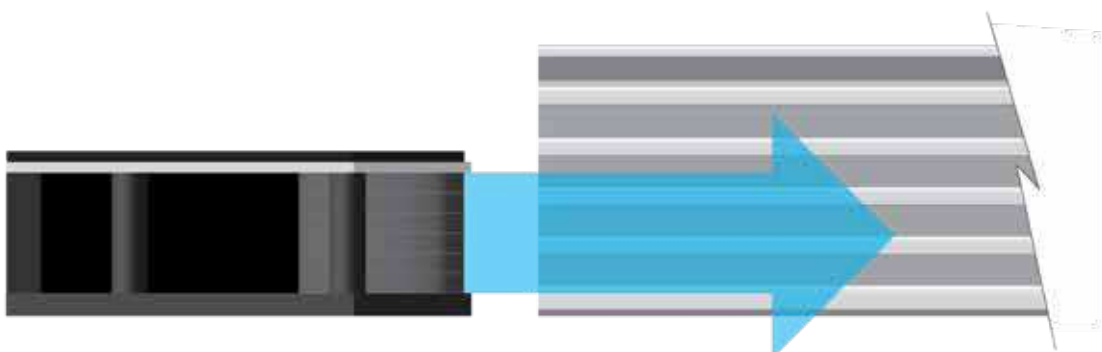
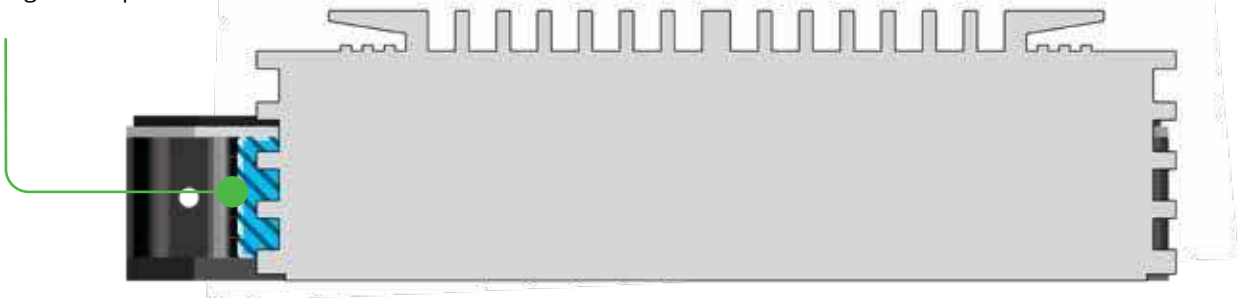
15. Double check all wiring and ensure your Fannie is secure.
16. Install an appropriately sized fuse into the Inline Fuse Holder on the Positive (+) Power Wire near the Positive (+) Battery Post. Sparked Innovations recommends a 60~75A fuse.
17. Activate your Fannie . The LEDs will illuminate and the fans will start spinning!

# EXAMPLE SETUPS

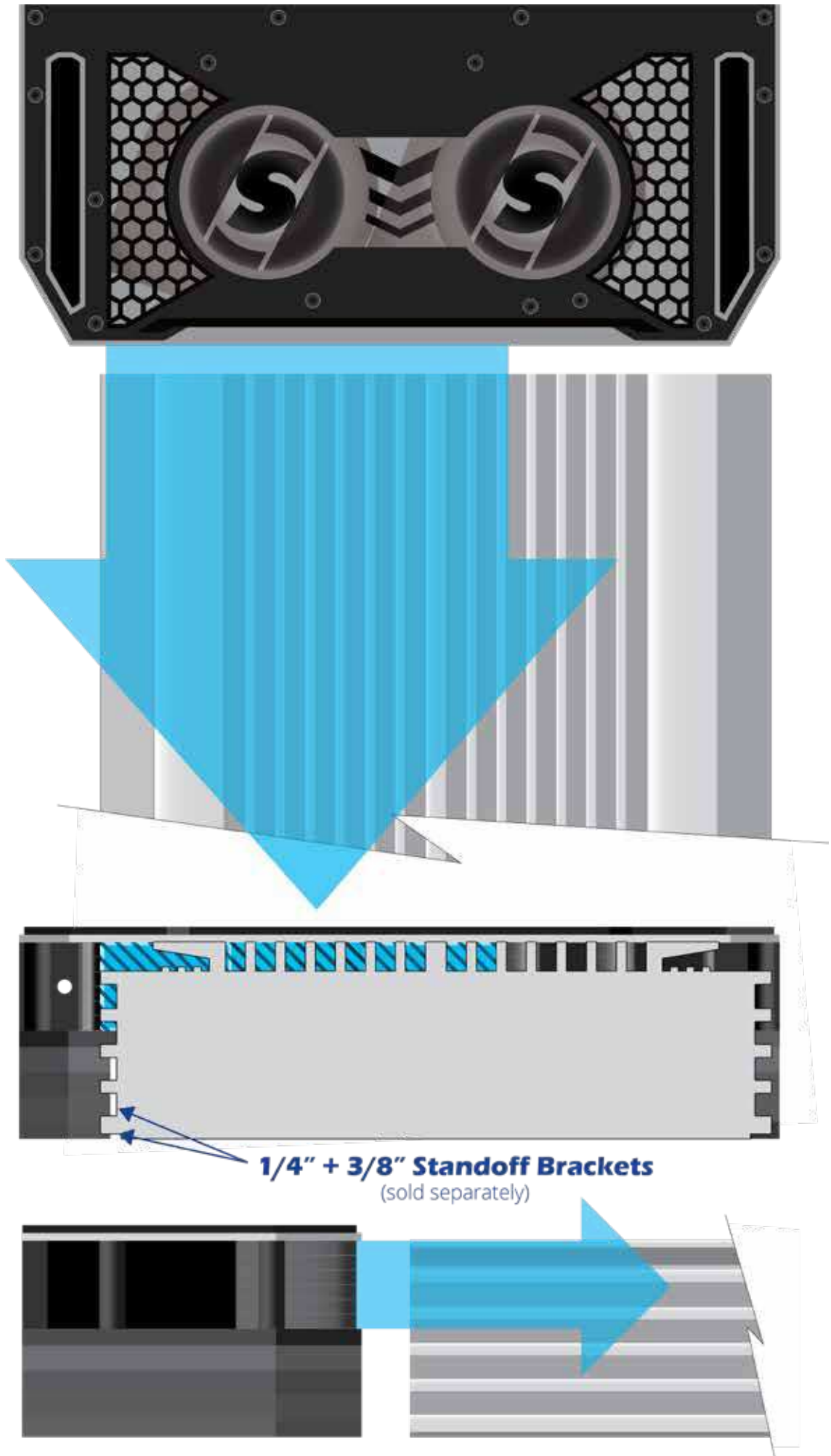
1. **Tall amplifier with top and side heat sinks (e.g. Sundown SALT amps)**
  - a. Fannie will not be tall enough to reach the top heat sinks, therefore, utilize the fastest air current to send air rushing down the length of the side heat sink.



The highest velocity air current comes from Fannie's far side. Be sure to offset Fannie so the air blows along the amp's side heat sink.

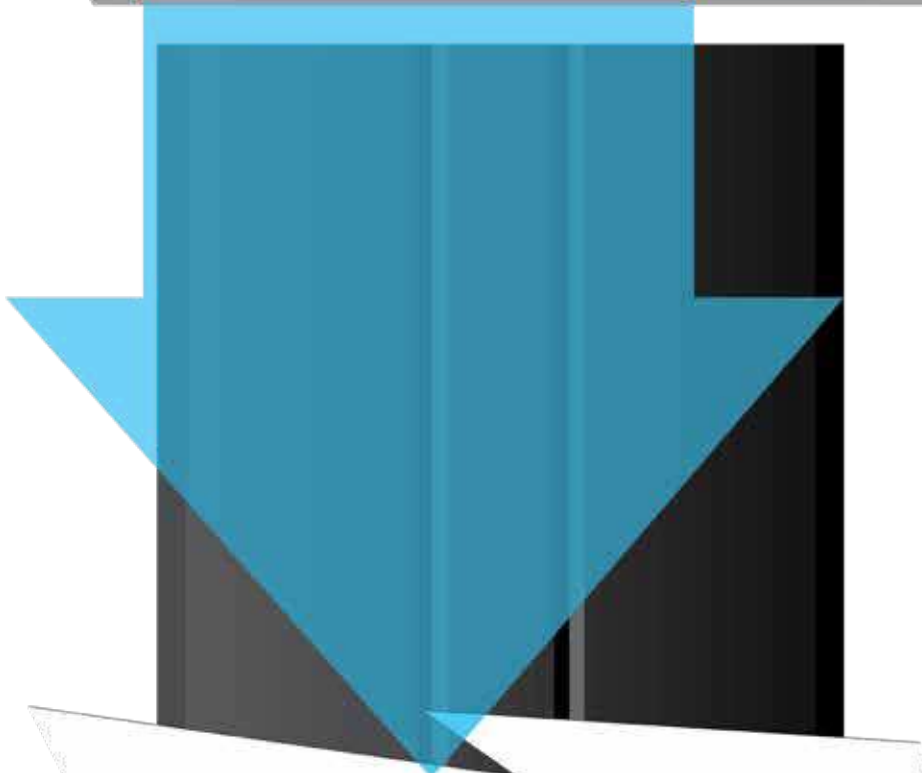
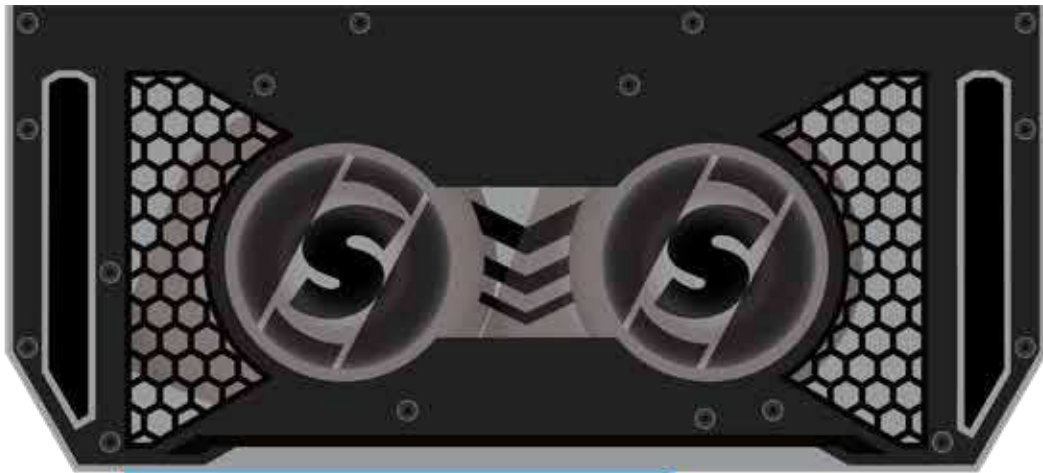


- b. Using optional standoff brackets, Fannie can be raised to a desired height and send air both alongside and across the top of the amplifier's heat sinks. This increases the surface area that the air current is cooling, providing a more efficient exodus of hot air.

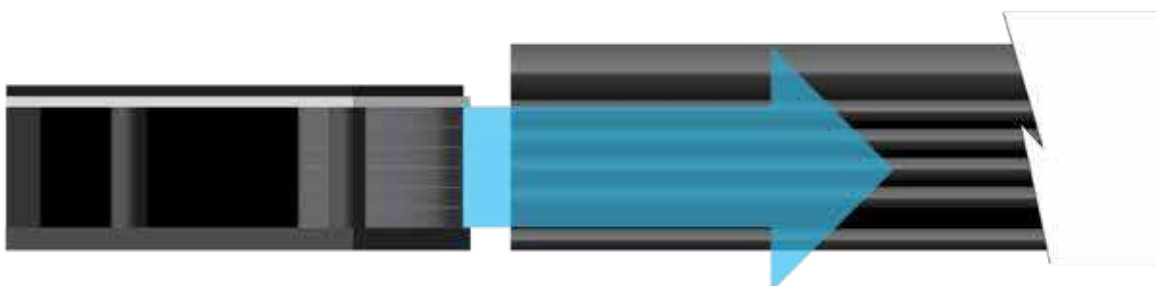
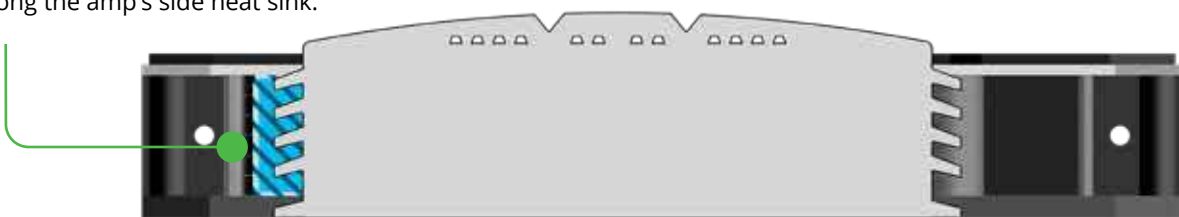


## 2. Low profile amp w/mainly side heat sinks (e.g. Incriminator I Series)

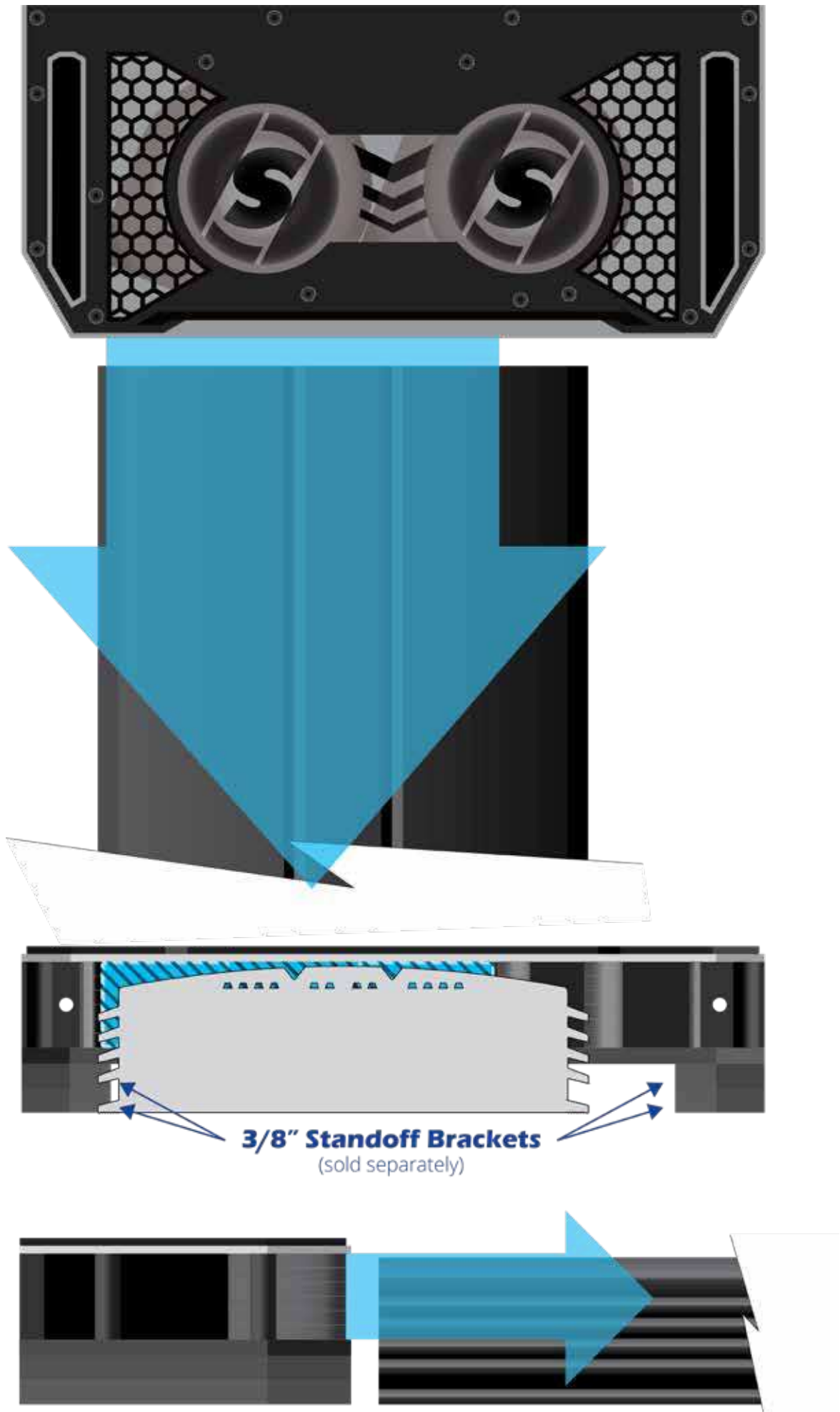
- a. Utilize the fastest air current to send air rushing down the side heat sink.



The highest velocity air current comes from Fannie's far side. Be sure to offset Fannie so the air blows along the amp's side heat sink.

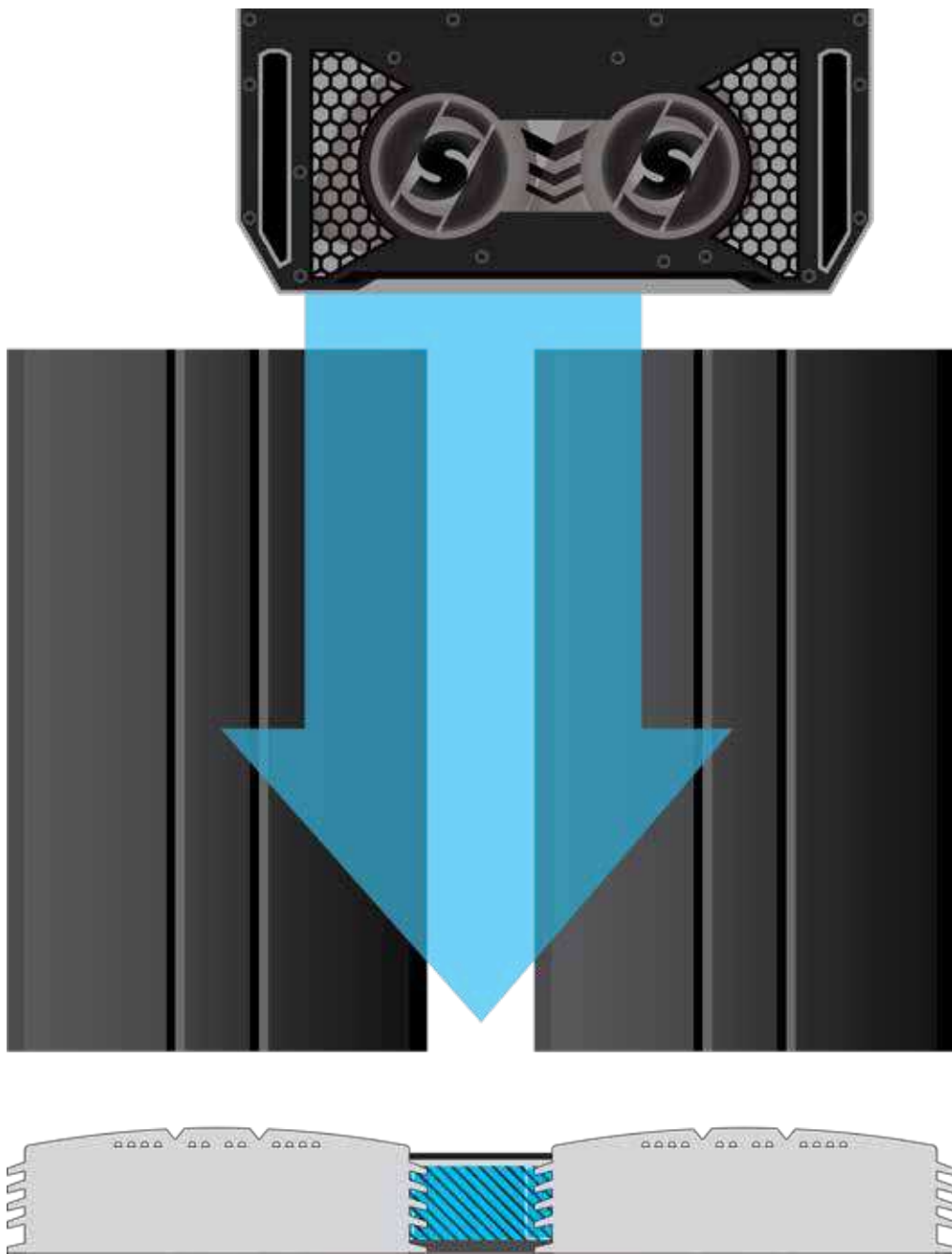


- b. Using optional standoff brackets, Fannie can be raised to a desired height and send air both alongside the heat sinks and across the top of the amplifier. This increases the surface area that the air current is cooling, providing a more efficient exodus of hot air.



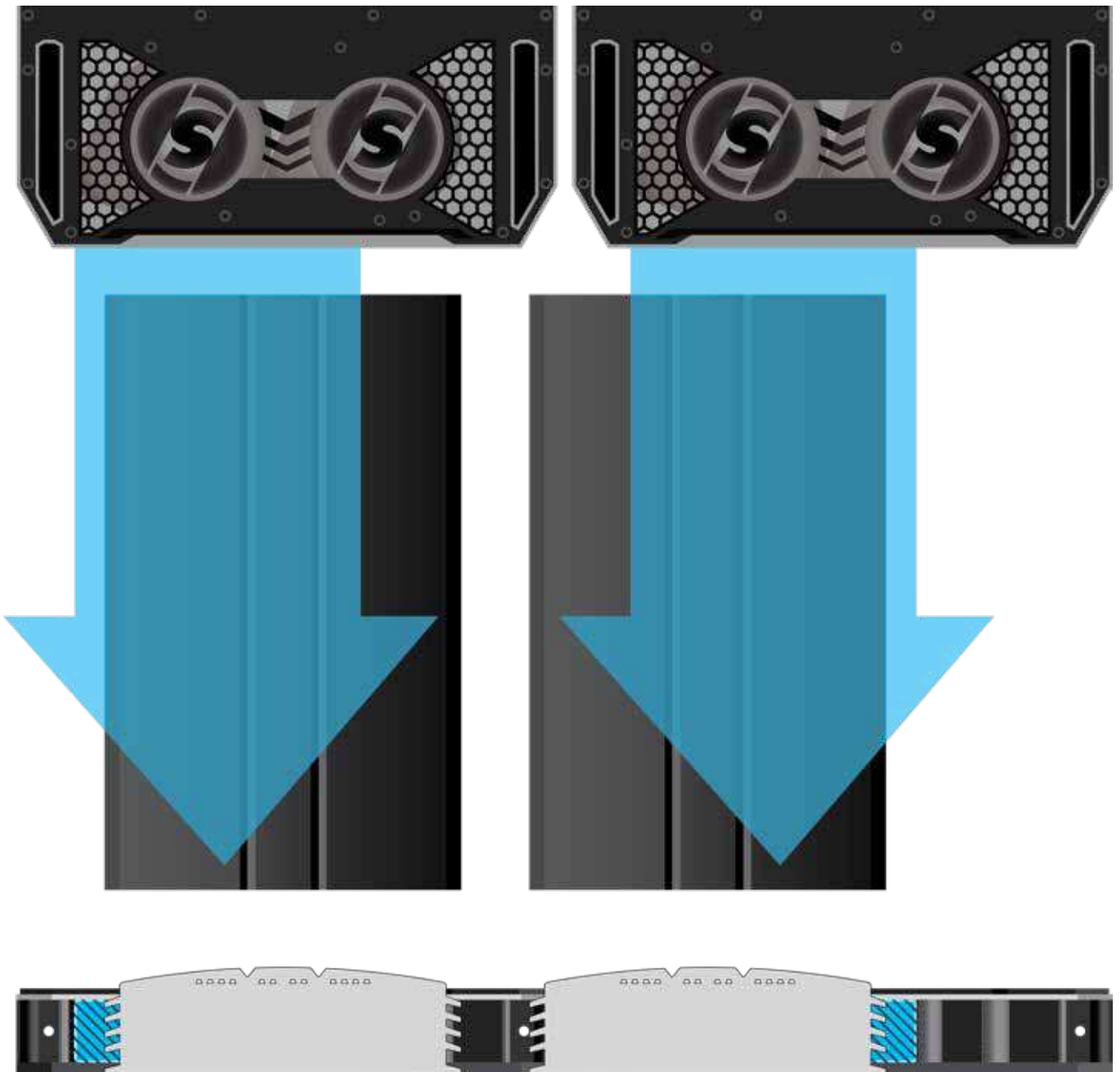
### 3. Cooling two amplifiers with one Fannie

- a. Place your Fannie's channel of air directly between both amplifiers. Be sure to offset your Fannie from the centerline between the two amps since the air current is not centered.





- b. When grouping together two Fannies to cool two adjacent amplifiers, place your Fannies' air channels so that they both flow down the outer side of each amplifier. Remember that your Fannie's air current is not centered with the housing, so you will have to offset it from the amplifier's centerline.



## 1-Year Limited Warranty

Sparked Innovations warrants this product to be free from defects in material or workmanship for one (1) year following the date of purchase, provided that the product is used in the proper environment. This limited warranty does not cover failures due to abuse, accidental damage, or when repairs have been made or attempted by anyone other than Sparked Innovations. A defective product meeting the warranty conditions set forth herein will be replaced or repaired at the discretion of Sparked Innovations.

Warranty service can be obtained in two (2) ways. Firstly, the item can be returned to the dealer from which it was originally purchased, within their designated time period as stated in their return policies, for either replacement or repair service. Secondly, the item can be shipped to Sparked Innovations under warranty claim once a return authorization is granted. To obtain a return authorization, simply email Sparked Innovations at [support@sparkedinnovations.com](mailto:support@sparkedinnovations.com) for warranty service.

This warranty does not apply to accessories. This product is not intended for commercial use, and accordingly, such commercial use of this product will void this warranty. All other guarantees, expressed or implied, are hereby disclaimed.

# SPECIFICATIONS

## Features

- Self-contained amplifier cooling fan unit
- Two mounting orientations
- Decorative illumination
- Designed, engineered, and handcrafted in the U.S.A.
- High quality PCB circuit integration
- Low profile design
- Wide airflow cross-section optimized for amplifier cooling

## Technical Data

Dimensions	11.44"L x 5.13"W x 1.81"H
Operation voltage	9 ~ 18V DC
Current draw @ 12.6VDC	1.92A
Current draw @ 14.4VDC	2.25A
Power and ground input wire	18 AWG
Weight	2.04 lbs.



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