

# FBX-12

## User Manual



English

# INTRODUCTION

The FBX-12 is a self-contained 12-Circuit ATC Blade Fuse Block designed by Sparked Innovations to offer a space-saving and cost-effective solution for adding circuit protection to any 12VDC accessory installation. It provides a consolidated location for fuses of various maximum ratings, a convenient negative bus, and four dedicated in-line paths for existing power wire runs.

## Versatile

The FBX-12 has user-selectable fuse ratings across 12 channels to enable easy and accurate fusing of an array of 12VDC loads according to their individual maximum draw. Four of the leads are in-line passthroughs intended to replace conventional in-line fusing solutions.

## Powerful

The FBX-12 can handle up to 180A across eight of its 12 channels. The main input can accept up to 4AWG for maximum current handling capability. Four channels can handle 15A each, another four can handle 20A each, and the remaining four can handle as much as 25A each.

## Safe

The FBX-12 comes equipped with isolated and fused protection on all positive outputs and a negative bus is provided for convenience to act as a distribution center from which to run all accessories, ensuring a safe and clean looking install.



### WARNING

Sparked Innovations recommends that you have a qualified 12-volt technician or specialist install the FBX-12. Any deviation from these installation guidelines could cause damage to oneself, the fuse box, vehicle, or accessories. Damage caused due to improper installation is not covered under warranty. The FBX-12 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 the FBX-12 Fuse Box
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 the Fuse Box housing using four M4 or #8 screws
5. Select an appropriate gauge power wire to run from the Positive (+) Battery Post to the Fuse Box

Recommended wire gauge is 8 AWG for runs < 10ft and 4 AWG for runs > 10ft

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)

Inline fusing prevents the risk of grounded shorts on the power wire (fire = bad)

8. Run the Positive (+) Power Wire from the Inline Fuse Holder to the FBX-12 Fuse Box

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

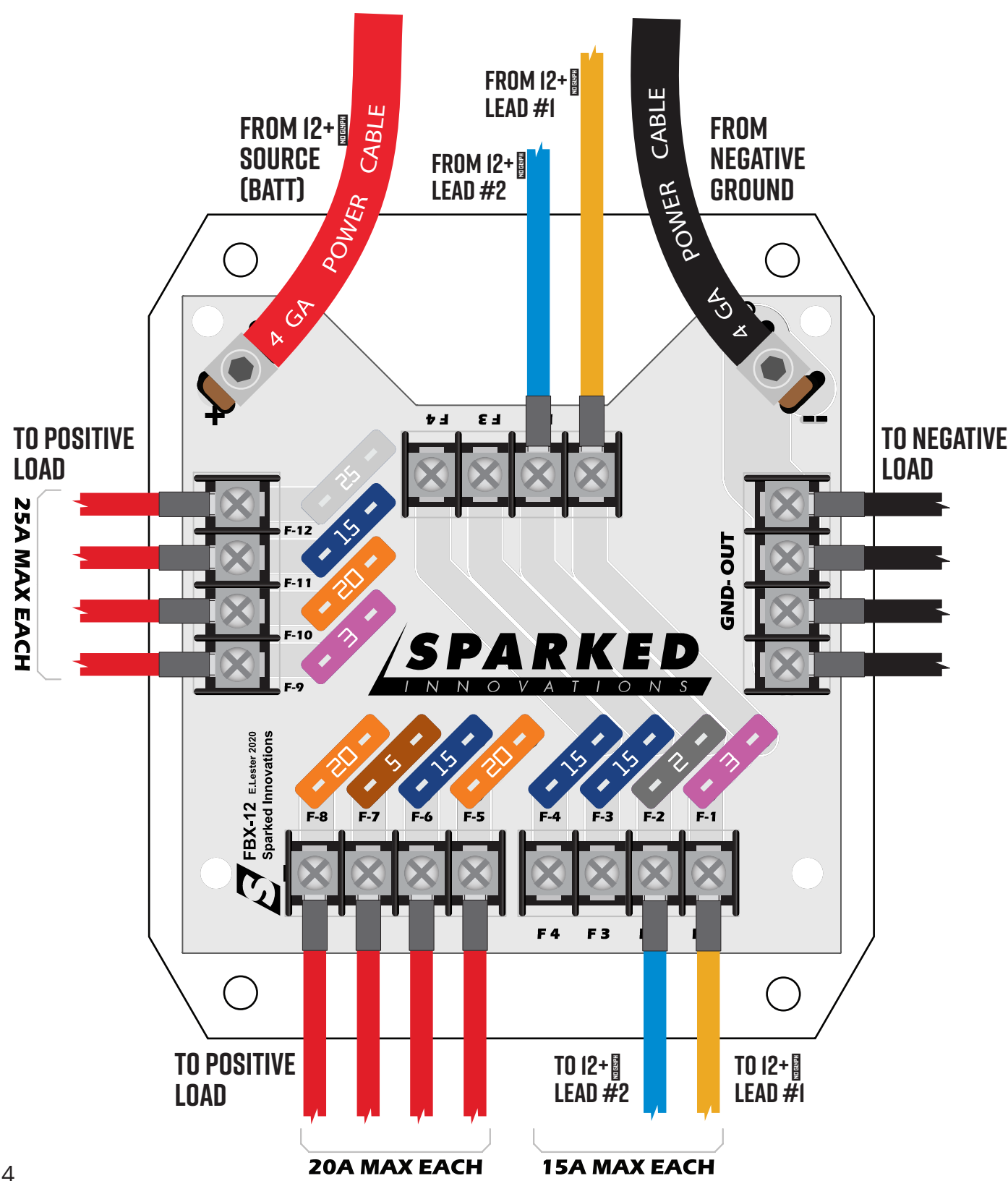
9. Connect the Positive (+) Power Wire to "B+" on the Input End of the FBX-12 and secure Set Screw with included Hex Tool
10. Find a clean Negative (-) Grounding Location at which to ground the Negative (-) Power Wire

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. Recommended wire gauge is 8 AWG for runs < 10ft and 4 AWG for runs > 10ft

11. Connect the Negative (-) Power Wire to the chosen Negative (-) Grounding Location
12. Run the Negative (-) Power Wire from the Negative (-) Grounding Location to the FBX-12 Fuse Box
13. Connect the Negative (-) Power Wire to "GND" on the Input End of the FBX-12 and secure Set Screw with included Hex Tool

# Connecting Output Accessories

- 14. Connect to the output terminals all items to be powered by the Fuse Box. Make sure to match Positive (+) Wire Leads from your accessories to one of the 12 Positive (+) Output Terminals. For convenience, you may use the GND- OUT Terminal to provide the Negative (-) power for your accessories.
- 15. Double check all wiring and ensure the Fuse Box 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 165~180A fuse.
- 17. Have fun with your new toy.



# SPECIFICATIONS

## Features

- All-in-one wire distribution and protection
- High quality PCB circuit integration
- Fused protection
- Fused distribution for constant positive (+) and negative (-) outputs
- Designed, engineered, and handcrafted in the U.S.A.
- Convenient wire hold-down plate

## Technical Data

Dimensions	6.0"L x 5.2"W x 1.2"H
Operation Voltage	9~18V DC
Number of main power channels	8
Number of independent in-line channels	4
Total peak current capacity	180A
Current capacity per channel	15A
Fuses	4 X 15A ATC, 4 X 20A ATC, 4 X 25A ATC
Power wire input	4 ~ 10 AWG
Remote input terminals	10 ~ 22 AWG Fork terminals or bare wire
Output terminals	10 ~ 22 AWG Fork terminals or bare wire
Weight	12.2 oz

## 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.

# NOTES

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# **SPARKED**

I N N O V A T I O N S

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