

Delta-V 15 69mm EDF Instructions

Thank you for purchasing the E-flite Delta-V 15 69mm EDF (EFLDF15). This electric ducted fan unit is an ideal choice for products such as E-flite's BAe Hawk 15 DF and other similar sized ducted fan airplanes. The Delta-V 15 69mm EDF is also an ideal choice for ducted fan airplanes requiring 68-70mm diameter fan units. The BL15 Ducted Fan Brushless Motor, 3600Kv (EFLM3015DF) is purpose-built for this Delta-V 15 69mm EDF and both products will provide great performance.

Delta-V 15 69mm EDF Features:

- High-performance, efficient design with
- Quick assembly time
- Injection molded, high strength fiberglass-filled Polyphenylene Sulfide [PPS] plastic
- Factory-balanced 69mm 5-blade rotor design and aluminum spinner
- Includes center body fairing to reduce drag
- Designed for 3S-4S Li-Po batteries
- Can accept motors with 28mm diameter
- Purpose-built for recommended E-flite BL15 Ducted Fan Brushless Motor, 3600Kv (EFLM3015DF)

Delta-V 15 69mm EDF Specifications

Rotor Diameter: 69mm (2.7 in)

Shroud Outer Diameter: 73.5mm (2.9 in)

Shroud Length: 58.3mm (2.3 in)

Shroud Length (Including Intake Ring): 72mm (2.8 in)

Center Body Inside Diameter: 28.3mm (1.1 in) - designed for 28mm motor

Overall Weight: 88g (3.1 oz)

Delta-V 15 69mm EDF Performance (Data Measured using BL15 DF Brushless Motor)

Recommended Motor: BL15 Ducted Fan Brushless Motor, 3600Kv (EFLM3015DF)

Static Thrust: 1.7 lbs on 3S (11.1V)

2.8 lbs on 4S (14.8V)

RPM: 31,000 on 3S (11.1V)

40,000 on 4S (14.8V)

Velocity: 71 mph on 3S (11.1V)

102 mph on 4S (14.8V)

Watts: 305 on 3S (11.1V)

644 on 4S (14.8V)

Current: 29A on 3S (11.1V)

46A on 4S (14.8V)

Examples of Airplane Setups:

E-flite BAe Hawk 15 DF ARF (EFL7050)

Comments – Sport scale performance with 3S, increased vertical performance when using 4S.

Weight w/Battery: 43-46 oz (1220-1305g)

Motor: BL15 Ducted Fan Brushless Motor, 3600Kv (EFLM3015DF)

Battery: 3200mAh 3-Cell 11.1V Li-Po (EFLB32003S)

ESC: 60A Pro SB Brushless (EFLA1060)

Accessories and Spare Parts:

EFLDF151 Rotor, 5-blade: Delta-V 15

EFLDF152 Aluminum Spinner Nut w/Collet: Delta-V 15

EFLDF153 Center Body Fairing, 28mm: EDF

EFLDF154 Intake Ring: Delta-V 15

EFLM3015DF BL15 Ducted Fan Brushless Motor, 3600Kv

EFLA1060 60A Pro SB Brushless ESC

EFLA110 Power Meter (measures power output in amps, volts, watts, and capacity)

EFLA241 Bullet Connector Set, Gold, 3.5mm (3)

Battery Choices:

EFLB32003S 3S 11.1V 3200mAh Li-Po, 13AWG

THP33003SXV 3S 11.1V 3300mAh Li-Po, 13AWG eXtreme V2 Series

THP26004SXV 4S 14.8V 2600mAh Li-Po, 13AWG eXtreme V2 Series

There are many Li-Po battery brands on the market with several choices for consumers. We recommend either E-flite or Thunder Power batteries and list some possible choices for the BL15 DF Brushless Motor, depending on the airplane application.

Installation Instructions:



1. Slide the motor wires into the center body fairing as shown.



2. Connect the center body fairing to the back of the motor using the two 2mm x 5mm screws provided. Note: You may want to trial fit the center body fairing so you can make sure the wires are accessible to plug into the ESC when the motor is attached to the fan unit. You may have to re-position the fairing before attaching to the motor.



3. Attach the motor to the fan unit using the two 3mm x 5mm screws provided.



4. Slide the threaded shaft and collet onto the shaft of the motor as far as it will go.



5. Install the rotor



6. Screw the spinner onto the threaded shaft and tighten while holding the spinner in place making sure it is secure. Use an L-wrench or something similar to help tighten the spinner.

EDF Safety Precautions:

This EDF unit contains a rotating part so use extreme caution. Never operated the EDF with loose clothing that can get caught in the rotor, and never operate the EDF while holding it in your hands. Please read the warning information included with your motor for safety information related to the operation of motors with propellers. Failure to comply with these warnings and/or improper use of propellers and EDF units may result in serious injury.

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Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please direct your email to productsupport@horizonhobby.com, or call 877.504.0233 toll free to speak to a service technician.

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Items requiring inspection or repair should be shipped to the following address (freight prepaid):

Horizon Service Center 4105 Fieldstone Road Champaign, Illinois 61822

Please call 877-504-0233, or e-mail us at productsupport@horizonhobby.com with any questions or concerns regarding this product or warranty.

United Kingdom: Horizon Hobby UK Units 1-4 Ployters Rd Staple Tye Southern Way Harlow, Essex CM18 7NS United Kingdom

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Germany: Horizon Technischer Service Hamburger Strasse 10 25335 Elmshorn GERMANY

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