



Delta-V 32 80mm EDF Instructions

Thank you for purchasing the E-flite Delta-V 32 80mm EDF (EFLDF32). This electric ducted fan unit is an ideal choice for products such as E-flite's Habu 32 DF and other similar sized ducted fan airplanes. The Delta-V 32 80mm EDF is also an ideal choice for ducted fan airplanes requiring 80mm diameter fan units. The BL32 Ducted Fan Brushless Motor, 2150Kv (EFLM3032DFA) is purpose-built for this Delta-V 32 80mm EDF and both products will provide great performance.

Delta-V 32 80mm EDF Features:

- High-performance, efficient design with quick assembly time
- Injection molded, high strength fiberglass-filled Polyphenylene Sulfide [PPS] plastic
- Factory-balanced 80mm 5-blade rotor design
- Aluminum collet with integrated spinner designed for motors with 5mm shaft
- Includes center body fairing to reduce drag
- Designed for 28mm diameter motors
- Purpose-built for recommended E-flite BL32 Ducted Fan Brushless Motors

Delta-V 32 80mm EDF Specifications

Rotor Diameter: 80.0mm (3.15 in)
Shroud Outside Diameter: 83.0mm (3.25 in)
Shroud Length: 66.0mm (2.60 in)
Shroud Length (Including Intake Ring): 82.0mm (3.20 in)
Motor Casing Diameter: 28.3mm (1.10 in)
Overall Weight: 116 g (4.10 oz)

Delta-V 32 80mm EDF Performance

Installed Data*

Installed Static Thrust: 4.50 lbs
RPM: 38,500
Watts: 1,400
Current: 62A

* Data measured installed in Habu 32 DF using BL32 DF Brushless Motor, 2150Kv & 6S 5000mAh 30C Battery (EFLB50006S30)

Static Data*

Static Thrust: 5.40 lb on 6S (21.9V)
RPM: 39,640 on 6S (21.9V)
Watts: 1,160 on 6S (21.9V)
Current: 53A on 6S (21.9V)

*Data measured in lab conditions using bell mouth intake and tail pipe measuring 159mm in length with 72.0mm exit diameter

Examples of Airplane Setups:

E-flite Habu 32 DF ARF (EFL8075)

Comments – High performance ducted fan on 6S
Weight w/Battery: 7.05 - 7.40 lb (3.20 - 3.35 kg)
Motor: BL32 Ducted Fan Brushless Motor, 2150Kv (EFLM3032DFA)
Battery: 5000mAh 6S 22.2V 30C Li-Po (EFLB50006S30)
ESC: 80A Pro SB Brushless (EFLA1080)

Accessories and Spare Parts:

EFLDF321	Rotor, 5-blade: Delta-V 32
EFLDF322	Aluminum Spinner Nut w/Set Screw: Delta-V 32
EFLDF153	Center Body Fairing, 28mm: EDF
EFLDF324	Intake Ring: Delta-V 32
EFLM3032DFA	BL32 Ducted Fan Brushless Motor, 2150Kv
EFLA1080	80A Pro Switch-mode BEC Brushless ESC
EFLA110	Power Meter (measures power output in amps, volts, watts, and capacity)
EFLA249	Bullet Connector Set, Gold, 4mm (3)

Battery Choices:

EFLB50006S30	5000mAh .36S 22.2V 30CLi-Po, 10AWG EC5
EFLB50006S50	5000mAh 6S 22.2V 50CLi-Po, 10AWG EC5
THP50006SP45	5000mAh 6C/6S 22.2V G4 Pro Power 45C Li-Po

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 BL32 DF Brushless Motor, depending on the airplane application.

Installation Instructions:

The Delta-V 32 decal is on the top side of the fan unit. Also the center mold line of the fan unit is on the bottom side of the mounting tabs. This will help you orientate the fan properly before installing into your airplane.



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. Slide the threaded shaft onto the motor shaft and tighten both set screws. Use removable blue thread lock.

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



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 Product Support representative. You may also find information on our website at www.horizonhobby.com.

Inspection or Repairs

If this Product needs to be inspected or repaired, please use the Horizon Online Repair Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please Note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Repair Request is available at www.horizonhobby.com under the Repairs tab. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for repair. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

Notice: Do not ship batteries to Horizon. If you have any issue with a battery, please contact the appropriate Horizon Product Support office.

Warranty Inspection and Repairs

To receive warranty service, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be repaired or replaced free of charge. Repair or replacement decisions are at the sole discretion of Horizon.

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Should your repair not be covered by warranty the repair will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of 1 hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for inspection or repair, you are agreeing to Horizon's Terms and Conditions found on our website under the Repairs tab.

Items requiring inspection or repair should be shipped to one of the following addresses (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
Harlow, Essex CM18 7NS
United Kingdom

Please call +44 (0) 1279 641 097 or email us at sales@horizonhobby.co.uk with any questions or concerns regarding this product or warranty.

Germany:
Horizon Technischer Service
Hamburger Strasse 10
25335 Elmshorn
GERMANY

Please call +49 4121 46199 66 or email us at service@horizonhobby.de with any questions or concerns regarding this product or warranty.

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Instructions for Disposal of WEEE by Users in the European Union: This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

Age Recommendation: Not for children under 14 years. This is not a toy.

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