Funtana 300

Assembly Manual

E-flite®
ADVANCING ELECTRIC FLIGHT

Specifications

Wingspan:	32 in (810mm)
Length:	30 in (760mm)
Wing Area:	251 sq in (16.2 sq dm)
Weight w/ Battery:	7.5–8.0 oz (215–230 g)
Weight w/o Battery:	6.75–7.0 oz (190–200 g)

Table of Contents

Introduction

The Funtana 300 ARF is a lightweight, flat-foam model with improved stability and strength over other similar designs in the market. Compared to its competition, the Funtana 300 is easier to assemble and utilizes high-quality construction and manufacturing techniques so this plane can be flight ready in as little as 3 hours. Contributing to the Funtana's extraordinary performance is its lightweight Depron foam construction and carbon fiber support rods, setting a new industry standard for quality, durability and performance. Spend less time building, this model comes with the pre-built carbon pushrods ready for installation. This model is capable of both indoor and outdoor sport flying with the built-up fuselage it is sturdy enough to be flown outdoors in up to 10 mph winds.

Using the Manual

This manual is divided into sections to help make assembly easier to understand, and to provide breaks between each major section. In addition, check boxes have been placed next to each step to keep track of each step completed. Steps with a single circle (○) are performed once, while steps with two circles (○ ○) indicate that the step will require repeating, such as for a right or left wing panel, two servos, etc.

Remember to take your time and follow the directions.

Contents of Kit/Parts Layout

Replacement Parts

EFL1151	Pushrod Set
EFL1152	Wheel Pants
EFL1153	Side Force Generator (2)
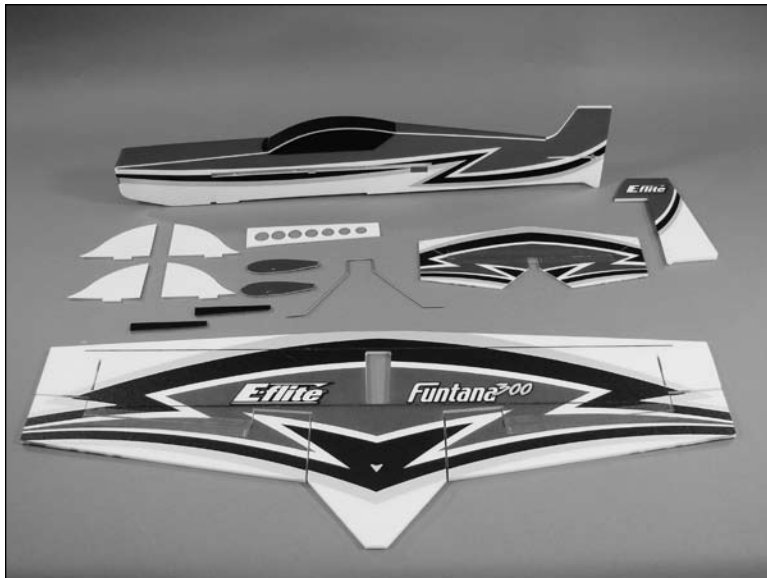
Required Radio Equipment

You will need a minimum 6-channel transmitter (for proper mixing and dual rate capabilities), crystals, micro receiver, and three sub-micro servos. You can choose to purchase a complete radio system that includes all of these items or, if you are using an existing transmitter, just purchase the other required equipment separately. We recommend the crystal-free, interference-free Spektrum™ DX7 2.4GHz DSM2™ 7-channel system. If using your own transmitter, we recommend the use of the Nanolite 6-channel flight pack for Spectrum users.

For Spectrum DX7 users

SPMAR6300F	DSM2 6CH Nanolite Flight Pack

Or

SPM6100	AR6100 6CH DSM2 Receiver
EFLRS60	6.0-Gram Super Sub-Micro Servo (4)

If you are using a Spectrum DX6

SPM6000	AR6000 DSM 6-Channel Park Flyer Receiver
EFLRS60	6.0-Gram Super Sub-Micro Servo (4)

Important Information About Motor Selection

We recommend the E-flite Park 300 Brushless Outrunner, 1380Kv (EFLM1150) to provide you with strong lightweight performance both indoors and out.

Outrunner Setup (E-flite)

EFLM1150	Park 300 Brushless Outrunner Motor, 1380Kv
EFLA1010	10-Amp Pro Brushless ESC
APC08038SF	8x3.8 Slow Flyer Prop
THP7303SJPL	730mAh 3-Cell 11.1V Li-Po, JST
EFLC3005	Celectra™ 1–3 Cell Li-Po Charger

Optional Accessories

EFLA110	Power Meter

Required Tools and Adhesives

Tools & Equipment

EFLA250	Park Flyer Tool Assortment, 5-piece

Or Purchase Separately

EFLA257	Screwdriver, #0 Phillips (or included with EFLA250)

Foam-safe CA
Foam-safe CA activator
Pin drill
Drill bit: 1/16-inch (1.5mm)
Hot glue gun
Low-temperature hot glue
Hobby knife (#11 blade)
Ruler
Square
Low-tack masking tape
Hinge Tape

Notes Regarding Servos and ESC

WARNING: Use of servos other than those we recommend may overload the BEC of the recommended Electronic Speed Control (ESC). We suggest the use of only the servos we recommend when utilizing the recommended ESC's BEC, or the use of a separate BEC (like the UBEC) or receiver battery pack when using other servos.

Note on Lithium Polymer Batteries

Lithium Polymer batteries are significantly more volatile than alkaline or Ni-Cd/Ni-MH batteries used in RC applications. All manufacturer's instructions and warnings must be followed closely. Mishandling of Li-Po batteries can result in fire. Always follow the manufacturer's instructions when disposing of Lithium Polymer batteries.

Warning

An RC aircraft is not a toy! If misused, it can cause serious bodily harm and damage to property. Fly only in open areas, preferably at AMA (Academy of Model Aeronautics) approved flying sites, following all instructions included with your radio.

Keep loose items that can get entangled in the propeller away from the prop, including loose clothing, or other objects such as pencils and screwdrivers. Especially keep your hands away from the propeller.

Warranty Period

Horizon Hobby, Inc., (Horizon) warranties that the Products purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase by the Purchaser.

Limited Warranty

(a) This warranty is limited to the original Purchaser ("Purchaser") and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized Horizon dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Further, Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(b) Limitations- HORIZON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

(c) Purchaser Remedy- Horizon's sole obligation hereunder shall be that Horizon will, at its option, (i) repair or (ii) replace, any Product determined by Horizon to be defective. In the event of a defect, these are the Purchaser's exclusive remedies. Horizon reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Horizon. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than Horizon. Return of any goods by Purchaser must be approved in writing by Horizon before shipment.

Damage Limits

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

Law: These Terms are governed by Illinois law (without regard to conflict of law principals).

Safety Precautions

This is a sophisticated hobby Product and not a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the Product or other property. This Product is not intended for use by children without direct adult supervision. The Product manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or injury.

Questions, Assistance, and Repairs

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.

Inspection or Repairs

If this Product needs to be inspected or repaired, please call for a Return Merchandise Authorization (RMA). 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*. A Service Repair Request is available at www.horizonhobby.com on the "Support" tab. If you do not have internet access, please include a letter with your complete name, street address, email address and phone number where you can be reached during business days, your RMA number, a list of the included items, method of payment for any non-warranty expenses and a brief summary of the problem. Your original sales receipt must also be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

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 Hobby.

Non-Warranty Repairs

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 ½ hour of labor. In addition you will be billed for return freight. Please advise us of your preferred method of payment. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. If you choose to pay by credit card, please include your credit card number and expiration date. Any repair left unpaid or unclaimed after 90 days will be considered abandoned and will be disposed of accordingly. *Please note: non-warranty repair is only available on electronics and model engines.*

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Service Center
4105 Fieldstone Road
Champaign, Illinois 61822

All other Products requiring warranty inspection or repair should be shipped to the following address:

Horizon Product Support
4105 Fieldstone Road
Champaign, Illinois 61822

Please call 877-504-0233 with any questions or concerns regarding this product or warranty.

Safety, Precautions, and Warnings

As the user of this product, you are solely responsible for operating it in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

Carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.) that you use.

This model is controlled by a radio signal that is subject to interference from many sources outside your control. This interference can cause momentary loss of control so it is necessary to always keep a safe distance in all directions around your model, as this margin will help to avoid collisions or injury.

- Always operate your model in an open area away from cars, traffic, or people.

- Avoid operating your model in the street where injury or damage can occur.

- Never operate the model out into the street or populated areas for any reason.

- Never operate your model with low transmitter batteries.

- Carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.) that you use.

- Keep all chemicals, small parts and anything electrical out of the reach of children.

- Moisture causes damage to electronics. Avoid water exposure to all equipment not specifically designed and protected for this purpose.

Airframe Assembly

Required Parts

Fuselage	Wing
Stabilizer/elevator	Carbon rod, 6-inch (152mm) (2)

Required Tools and Adhesives

|	
Hobby knife	Foam-safe CA
Ruler	Hinge tape
Low-tack tape	

❑　1. Insert the wing into the fuselage. Measure from the tips of the wing to the rear of the fuselage. The measurements must match from right to left. If not, adjust the position of the wing until both measurements are equal.
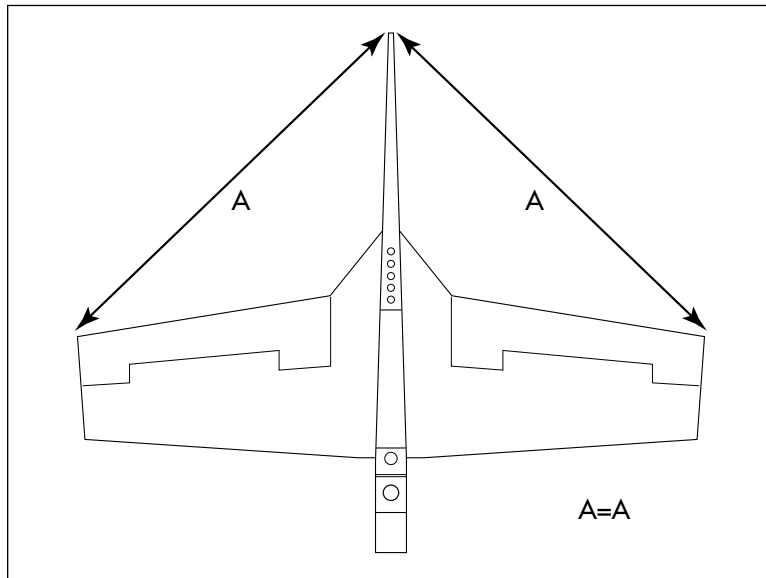
❑　2. Glue the wing to the fuselage using foam-safe CA. Allow the CA to fully cure before proceeding. Ensure the wing is perpendicular to the fuselage during this step.


❑　3. Use a hobby knife to remove the hinge tape between the two elevator halves. Also remove the covering from the slot that will be used for the elevator control horn.
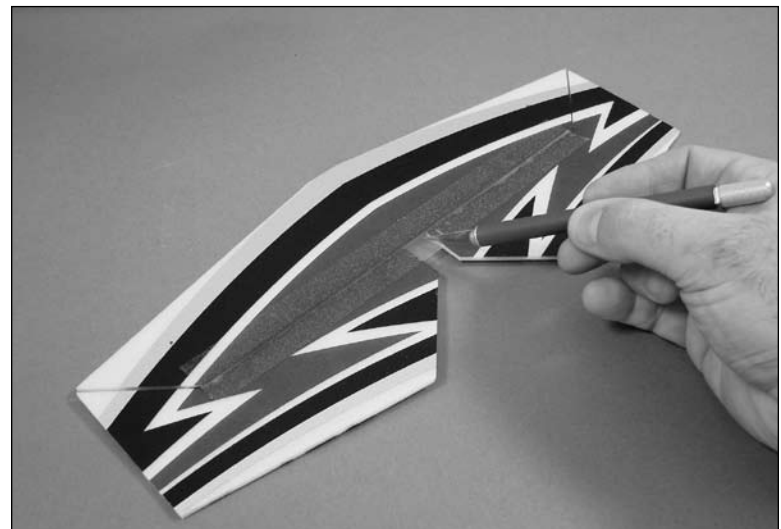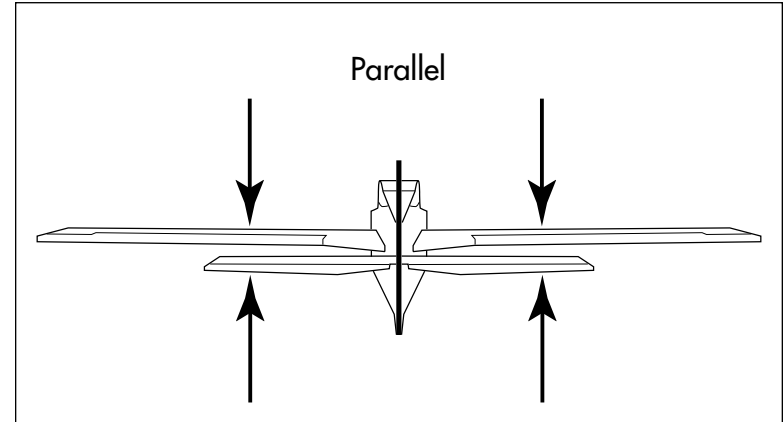
4. Slide the stabilizer into the fuselage. Measure from the tips of the wing to the tips of the stabilizer. The measurements must match from right to left. If not, adjust the position of the stabilizer until both measurements are equal.
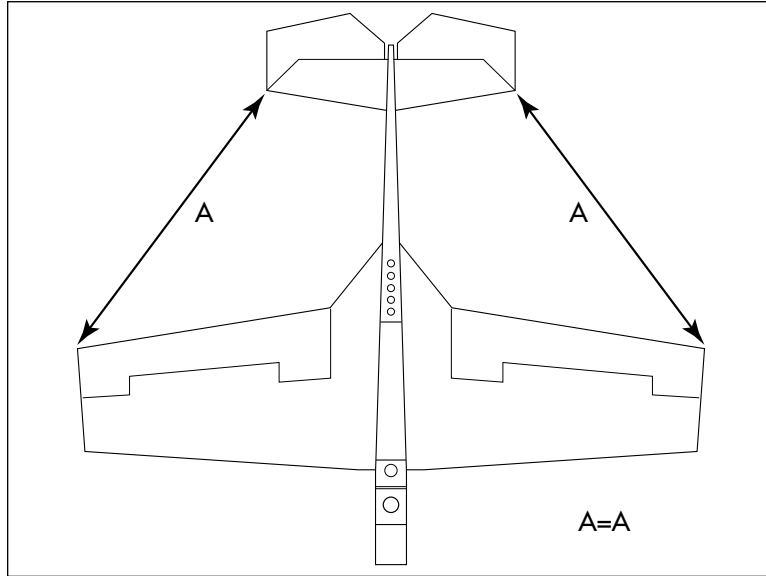
5. Step back and check that the wing and stabilizer are parallel to each other. If not, lightly sand the stabilizer saddle to correct for any alignment issues. Once fully aligned, glue the horizontal stab in place using foam-safe CA.


6. Use foam-safe CA to glue the two 6-inch (152mm) carbon rods between the fuselage and stabilizer. Make sure not to change the alignment of the stabilizer when installing the rods. The carbon rods will inset into the bulkhead inside the fuselage.

○   7. Apply hinge tape the the rudder as shown. The tape should not overlap onto the balance tab of the rudder or it will interfere with the operation of the rudder.

○   8. Attach the rudder to the fin. Make sure the balance tab on the rudder does not rub against the top of the fin.
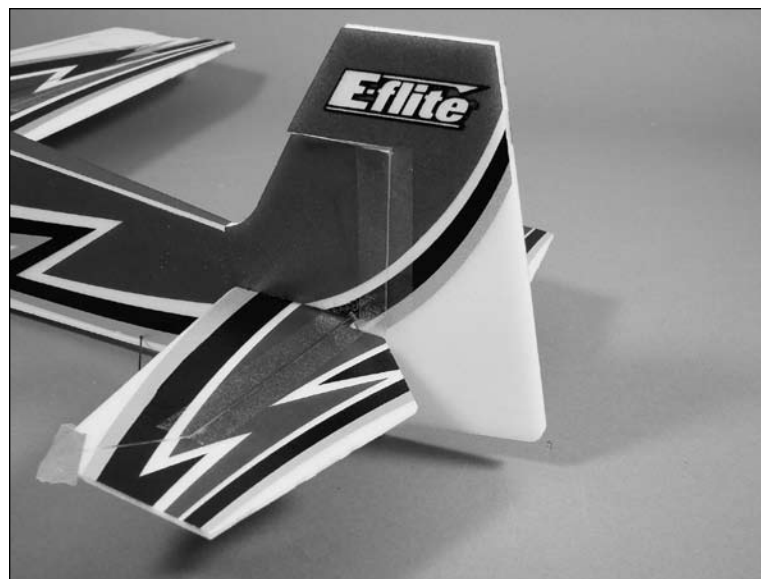
Note: Use low-tack tape to tape the control surfaces in their neutral positions. This will make the airframe easier to handle during assembly. Be careful not to tape the printed surfaces as there is a chance of the printing coming off when removing the tape.

Servo Installation

Required Parts

Airframe assembly   Micro control horn (4)
Long 3D servo arm (4)   Micro pusrod connector (4)
2mm x 4mm machine screw (4)
Micro control horn backplate (4)
Micro pushrod connector backplate (4)
10-inch (254mm) carbon pushrod
10 $\frac{1}{2}$-inch (267mm) carbon pushrod
3 $\frac{1}{4}$-inch (82mm) carbon pushrod (2)

Required Tools and Adhesives

Foam-safe CA   Pin drill
Drill bit: 1/16-inch (1.5mm)   Hinge tape
Phillips screwdriver: #0   Low-temperature hot glue
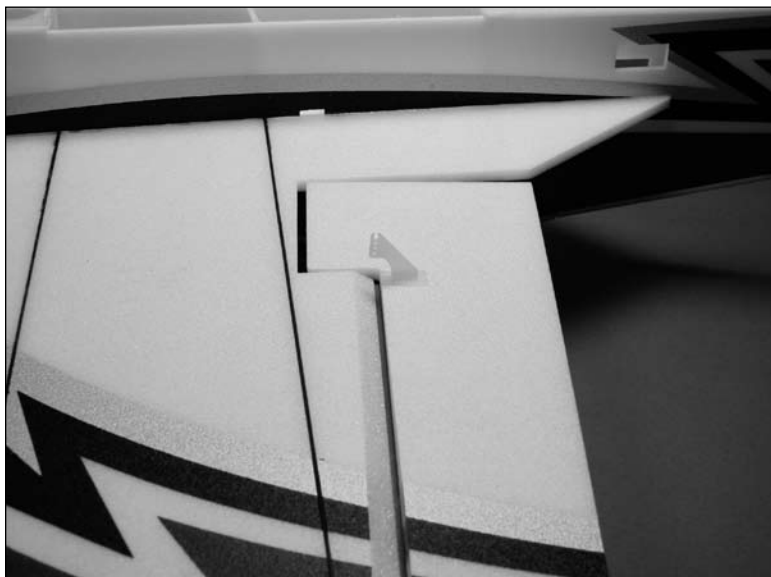Hot glue gun

○○○○   1. Insert the micro control horn into slot in the elevator from the top. Slide the micro control horn backplate onto the control horn from the bottom side of the elevator as shown.
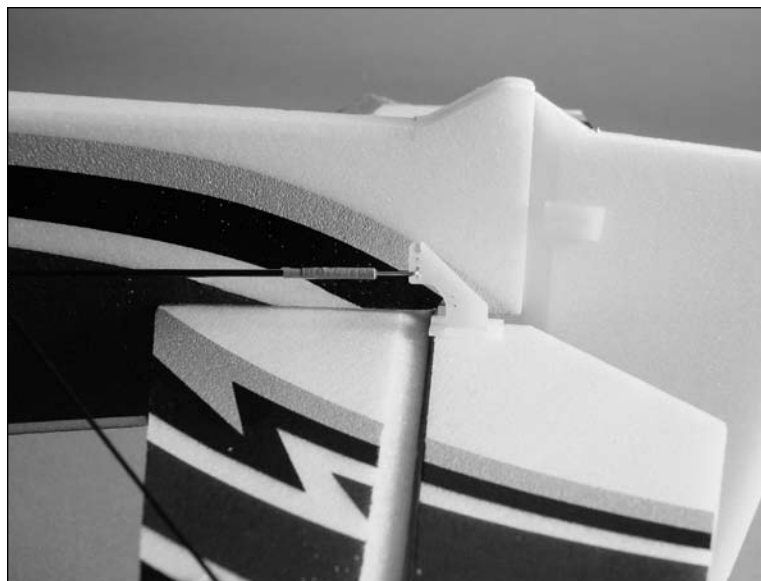
○○○○   2. Apply a few drops of foam-safe CA onto the backplate to secure it to the horn.

❏ 3. Repeat Steps 1 and 2 to install the rudder and aileron control horns.

❏ 4. Attach the Z-bend on the 10-inch (254mm) carbon pushrod to the middle hole on the elevator control horn.

❏ 5. Attach the Z-bend on the 10 $\frac{1}{2}$-inch (267mm) carbon pushrod to the middle hole on the rudder control horn.

○○ 6. Attach the Z-bend on the 3 $\frac{1}{4}$-inch (82mm) carbon pushrods to the middle hole on the aileron control horns.


○ 7. Plug the servos into the radio system and make sure they operate and are centered as well. Also center the trims on the transmitter at this time. If you are using a computer radio, start with a clear model program and check that all sub trims are set to 0 and all throws are set to 100%.
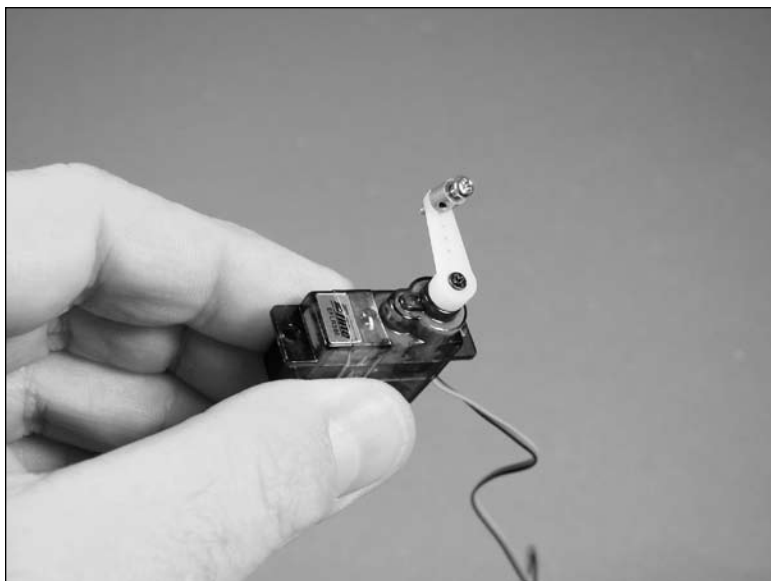
○○○○ 8. Attach the single medium servo horn to the servo.

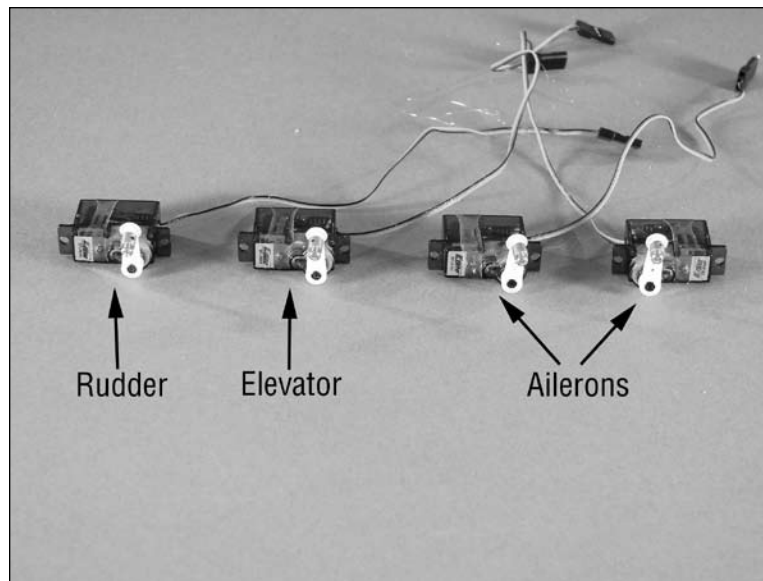○○○○ 9. Use a pin drill and 1/16-inch (1.5mm) drill bit to enlarge the outer hole in the servo arm.
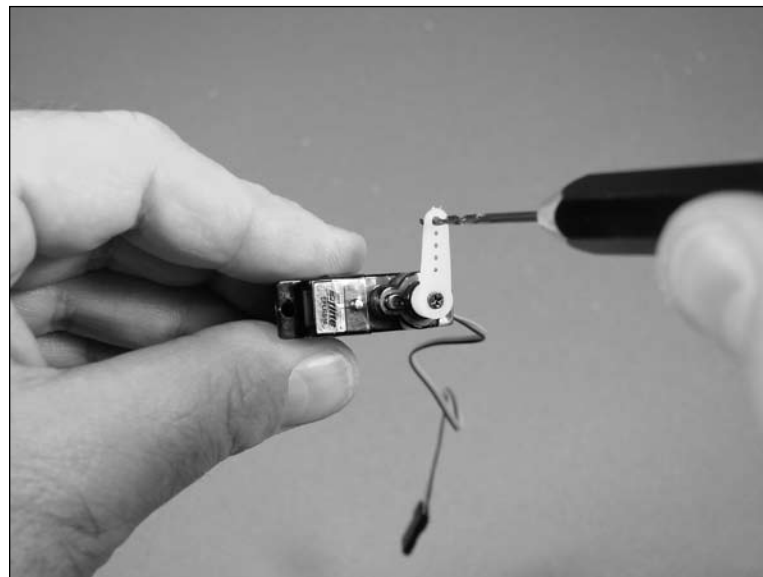
❍❍❍❍   10. Slide the micro pushrod connector into the outer hole in the servo arm.

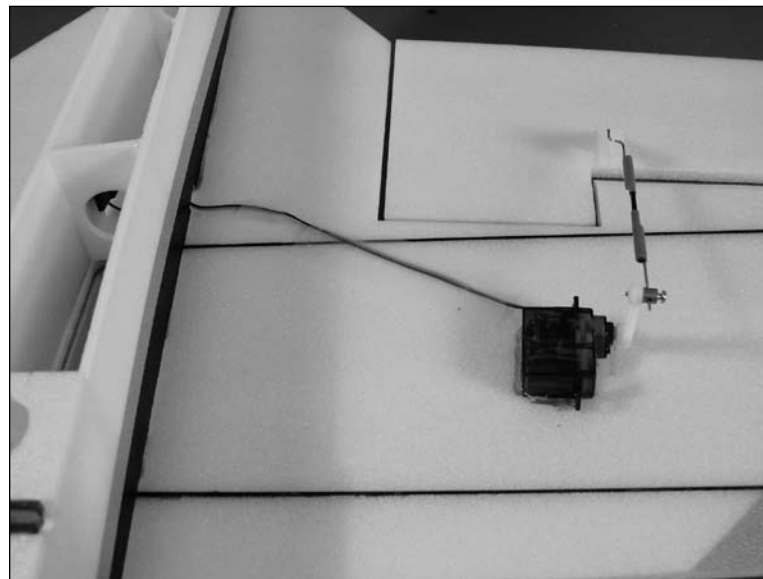❍❍❍❍   11. Secure the micro pushrod connector to the servo arm using a micro pushrod connector backplate.

❍   12. Repeat Steps 8 through 12 to prepare all four of the servos for your Funtana 300.


Rudder   Elevator   Ailerons

❍ 13. Slide the end of the aileron pushrod into the micro pushrod connector. Use hot glue to secure the aileron servo to the wing using the servo template on the wing. Another alternative would be to use foam-safe CA to glue the servo down.

❍ 14. With the aileron and aileron servo centered, use a 2mm x 4mm machine screw and #0 Phillips screwdriver to secure the pushrod in the connector. Tape the servo lead to the bottom of the wing using hinge tape.

❍ 15. Secure the rudder servo in the fuselage using hot glue. Slide the rudder pushrod into the micro control connector. Another alternative would be to use foam-safe CA to glue the servo down.
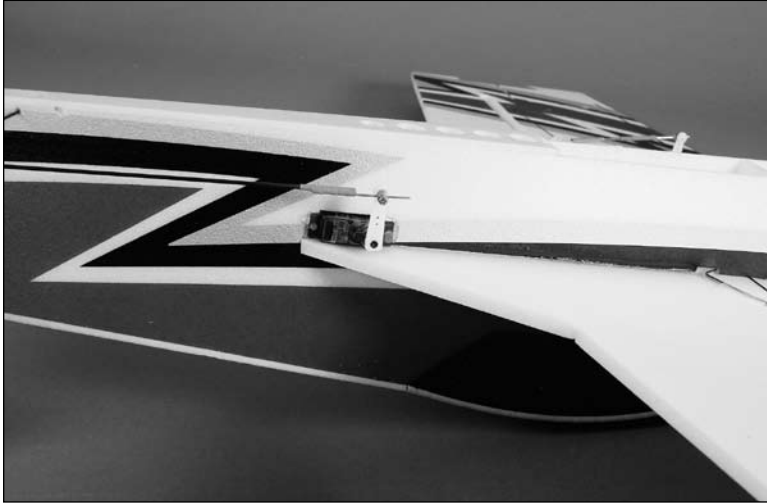
❍ 16. With the rudder and rudder servo centered, use a 2mm x 4mm machine screw and #0 Phillips screwdriver to secure the pushrod in the connector.

❍ 17. Secure the elevator servo in the fuselage using hot glue. Slide the elevator pushrod into the micro control connector. Another alternative would be to use foam-safe CA to glue the servo down.

❍ 18. With the elevator and elevator servo centered, use a 2mm x 4mm machine screw and #0 Phillips screwdriver to secure the pushrod in the connector. Use threadlock on the screw to prevent it from vibrating loose.
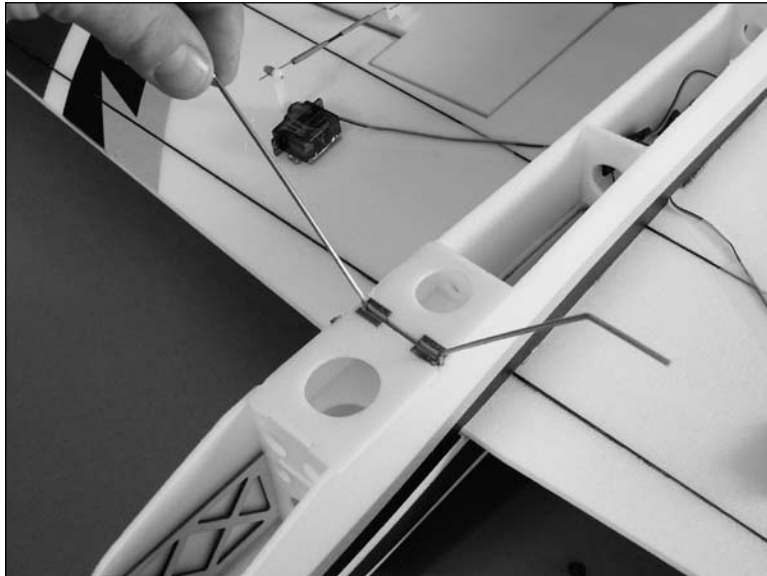
Landing Gear Installation

Required Parts

Airframe assembly	Landing gear
Nylon wheel retainer (4)	1 $\frac{1}{4}$-inch (32mm) wheel (2)
Wheel pant(2)	

Required Tools and Adhesives

Foam-safe CA	Low-temperature hot glue
Hot glue gun	

❍ 1. Slide the landing gear into the slot in the bottom of the fuselage. A drop of foam-safe CA can be placed on the gear to help keep it in position.
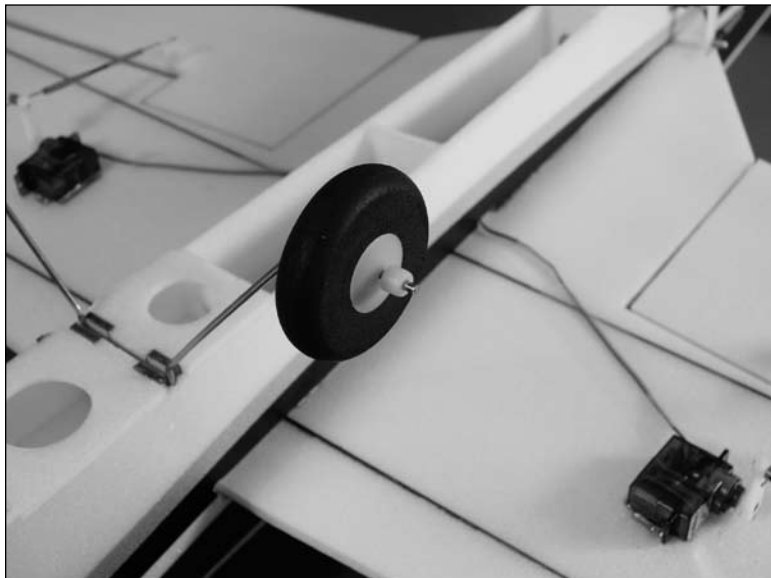

❍❍ 2. Use foam-safe CA to glue the nylon wheel retainer to the landing gear. Make sure to allow the CA to fully cure or you could accidentally glue the wheel to the landing gear.
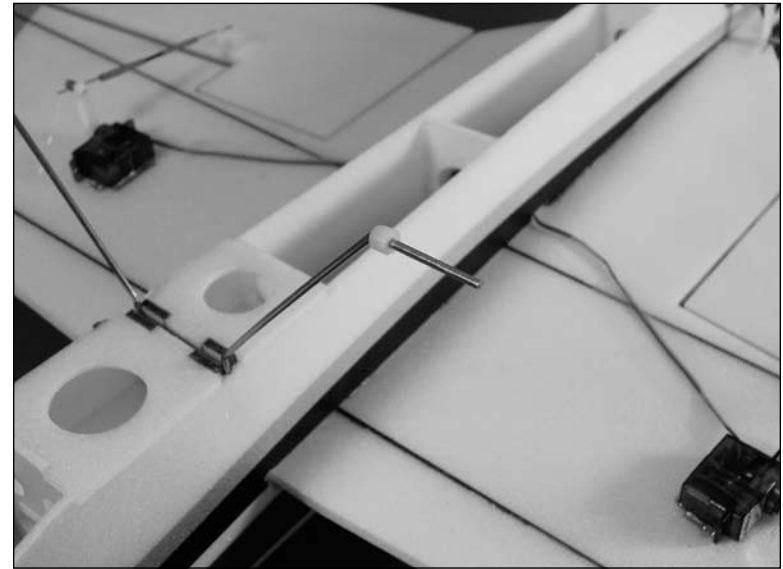
❍❍ 3. Slide the wheel onto the landing gear as shown.

○○ 4. Use foam-safe CA to glue the remaining nylon wheel retainer on the landing gear. Use care not to get glue into the wheel and prevent it from rotating.


○ 5. Repeat Steps 2 through 4 for the remaining wheel.

Note: You may wish to continue on in the manual and complete the model before gluing on the landing gear covers and wheel pants to ensure they do not get damaged during the rest of the construction of the model.

○ 6. Slide the wheel pants onto the nylon wheel retainers. With your Funtana 300 on the work surface, check that there is adequate clearance between the work surface and the wheel pants. Use foam-safe CA to glue the wheel pants to the wheel retainers.
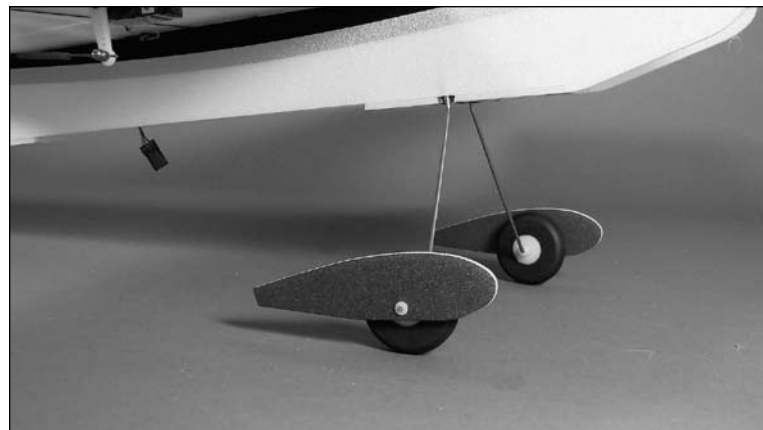
○ 7. Install the landing gear fairings using hot glue. Place a dot of glue at the top and bottom of the fairings to attach them to the landing gear wire.
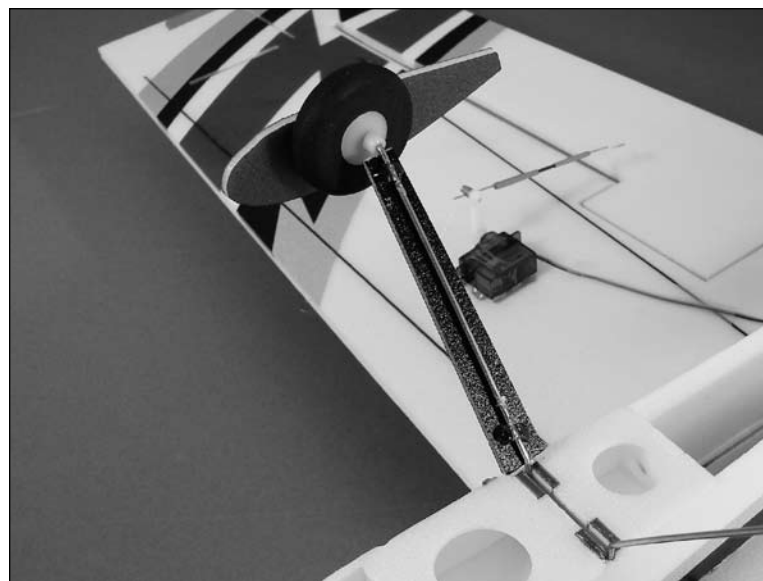
Electronics Installation

Required Parts

Airframe assembly	Hook and loop tape
Receiver	Speed control
Motor battery	Propeller
2mm x 8mm machine screw (4)	

Required Tools and Adhesives

Phillips screwdriver: #0	Hinge tape

❍   1. Attach the motor to the firewall using the hardware provided with the motor and a #0 Phillips screwdriver. Make sure to use threadlock on the screws to prevent them from vibrating loose. Please note the screws to mount the motor that are shown are not the ones included with your kit. You will have (4) Phillips head machine screws for mounting.

❍   2. Connect the leads from the speed control to the motor.

❍ 3. Use hook and loop tape to mount the receiver to the side of the horizontal fuselage. Route the antenna wire from your receiver according to the instructions provided with your radio system. Plug the servos into the receiver at this time. Install the speed control in the fuselage using hook and loop tape. Secure the wires so they will not interfere with the operation of the motor during flight.
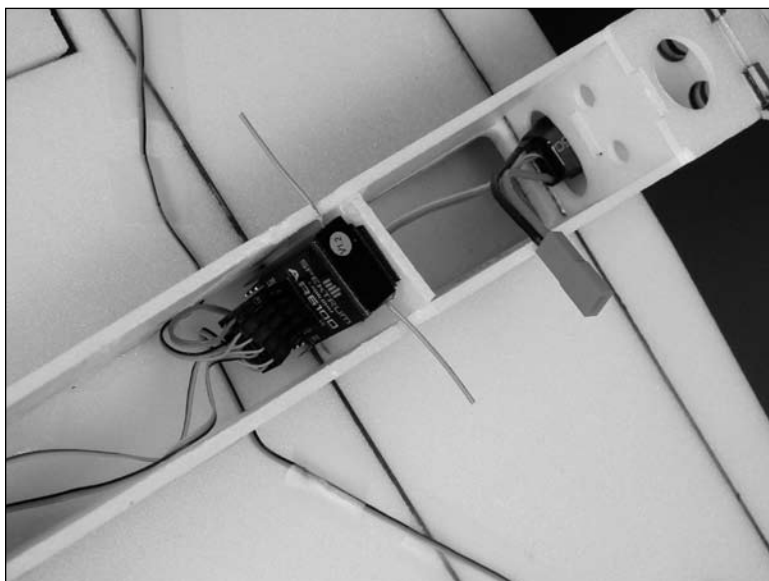
Important Information About Your Brushless ESC

Make sure your ESC brake is programmed to Off. Also, be sure to use an ESC with the proper low-voltage cutoff and it is set correctly for the batteries you are using.

❍ 4. Apply hook and loop tape to the motor battery and fuselage. Slide the motor battery into position.
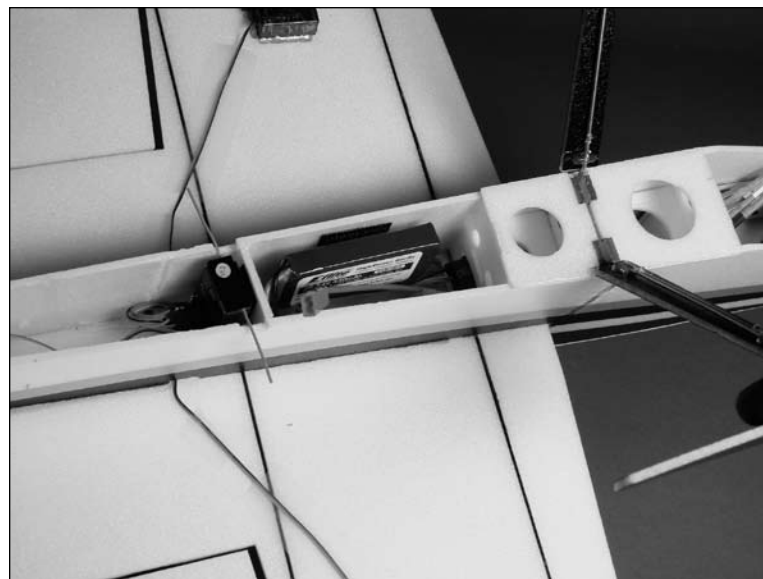
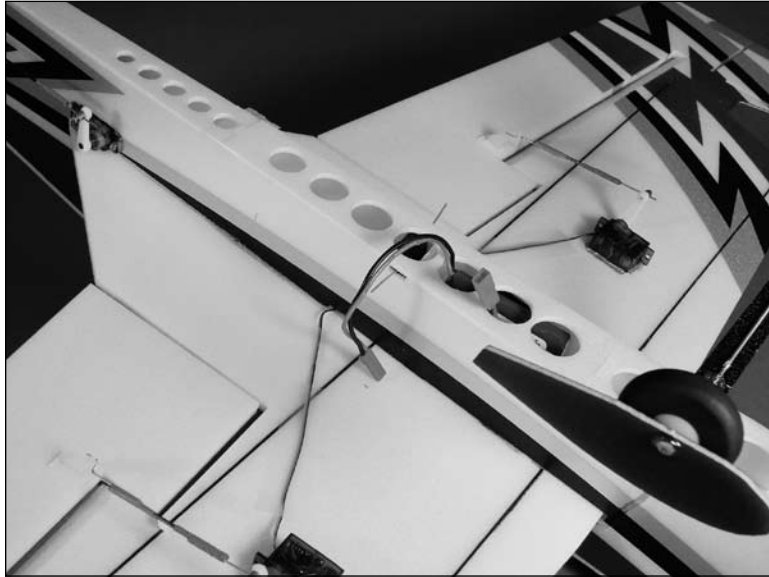○ 5. Use hinge tape to secure the radio cover to the bottom of the fuselage. Allow the leads for the battery and speed control to exit the cover so they can be manipulated easily without removing the cover.

○ 6. Turn on the radio system and plug the battery into the speed control. Use the throttle to check that the motor rotates counterclockwise when viewed from the front. If not, follow the directions included with your speed control to change the direction of the motor rotation.

Note: Never check the motor rotation on the bench with the propeller installed. The plane could move and cause serious injury. Always check the motor without the propeller to avoid injury.

Important Information About Your Propeller

It is also very important to check to be sure the propeller is balanced before installing onto the shaft. An unbalanced propeller may cause poor performance with the power system.

Note: If it is necessary to enlarge the hole in the propeller, make sure to check the balance of the propeller afterwards.

○ 7. Attach the propeller to the motor following the instructions provided with the motor.

Final Assembly

Required Parts

Airframe assembly   Side force generator (top) (2)
Side force generator (bottom) (2)

Required Tools and Adhesives

Foam-safe CA   Square

○ 1. Locate the top and bottom side force generators. Note the tab on the top is toward the rear of the generator, and the bottom has the tab toward the front of the generator.
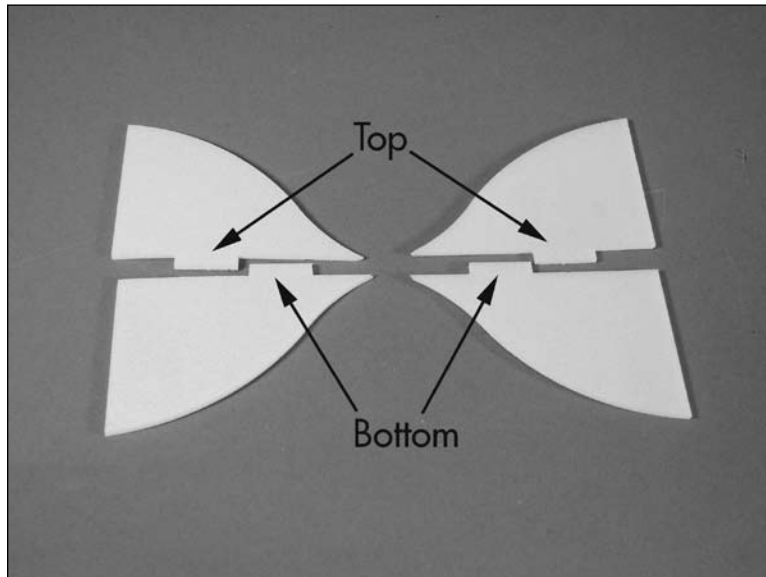
○○ 2. Use foam-safe CA to glue the top side force generator into the slot on the top of the wing. Make sure to slide the generator toward the trailing edge of the wing, and that it is square to the top of the wing.
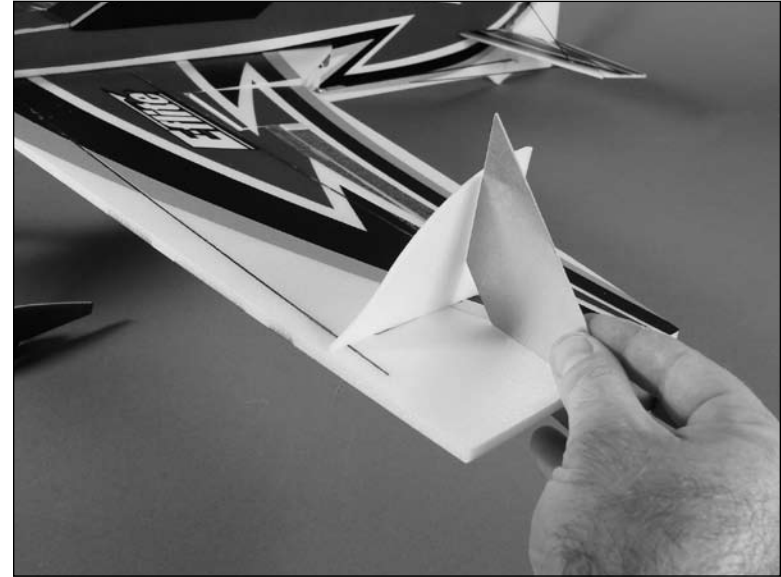
3. Repeat Step 2 to install the bottom side force generator. The bottom will have the tab forward in the slot in the wing.

4. Simply repeat Steps 2 and 3 for the remaining top and bottom side force generators.

Control Throws

1. Turn on the transmitter and receiver of your Funtana 300. Check the movement of the rudder using the transmitter. When the stick is moved right, the rudder should also move right. Reverse the direction of the servo at the transmitter if necessary.

2. Check the movement of the elevator with the radio system. Moving the elevator stick down will make the airplane elevator move up.

3. Check the movement of the ailerons with the radio system. Moving the aileron stick right will make the right aileron move up and the left aileron move down.

4. Use a ruler to adjust the throw of the elevator, ailerons and rudder. Adjust the position of the pushrod at the control horn to achieve the following measurements when moving the sticks to their endpoints.

Note: Measurements are taken at the widest point on the surface.

Ailerons
Low Rate: 1-inch (25mm) with 50% Expo (Up/Down)

High Rate: 2-inch (50mm) with 15% Expo (Up/Down)

Elevator
Low Rate: 1-inch (25mm) with 50% Expo (Up/Down)

High Rate: 2-inch (50mm) with 15% Expo (Up/Down)

Rudder
Low Rate: $1^{1}/_{4}$-inch (32mm) (Left/Right)

High Rate: $2^{1}/_{4}$-inch (57mm) (Left/Right)

These are general guidelines measured from our own flight tests. You can experiment with higher rates to match your preferred style of flying.
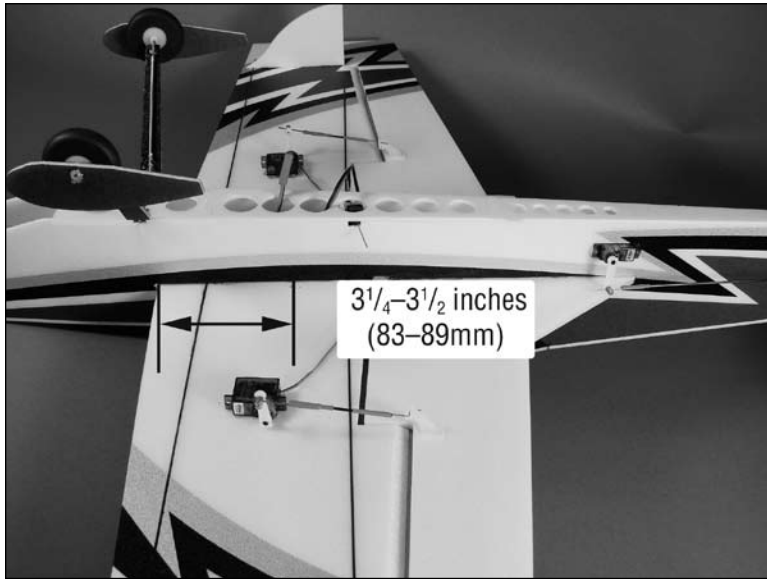
Center of Gravity

An important part of preparing the aircraft for flight is properly balancing the model.

Caution: Do not inadvertently skip this step!

The recommended Center of Gravity (CG) location for the Funtana 300 is 3 $\frac{1}{4}$–3 $\frac{1}{2}$ inches (83–89mm) back from the leading edge of the wing against the fuselage.

3 $\frac{1}{4}$–3 $\frac{1}{2}$ inches (83–89mm)

After the first flights, the CG position can be adjusted for your personal preference.

Range Test Your Radio

❍ 1. Before each flying session, be sure to range check your radio. This is accomplished by turning on your transmitter with the antenna collapsed. Turn on the receiver in your airplane. With your airplane on the ground and the engine running, you should be able to walk 30 paces (approximately 100 feet) away from your airplane and still have complete control of all functions.

If not, don't attempt to fly! Have your radio equipment checked out by the manufacturer.

❍ 2. Double-check that all controls (aileron, elevator, rudder and throttle) move in the correct direction.

❍ 3. Be sure that your transmitter batteries are fully charged, per the instructions included with your radio.

Preflight

Check Your Radio

Before going to the field, be sure that your batteries are fully charged per the instructions included with your radio. Charge both the transmitter and receiver pack for your airplane. Use the recommended charger supplied with your particular radio system, following the instructions provided with the radio. In most cases, the radio should be charged the night before going out flying.

Before each flying session, be sure to range check your radio. See your radio manual for the recommended range and instructions for your radio system. Each radio manufacturer specifies different procedures for their radio systems. Next, start the motor. With the model securely anchored, check the range again. The range test should not be significantly affected. If it is, don't attempt to fly! Have your radio equipment checked out by the manufacturer.

> **Note**: Keep loose items that can get entangled in the propeller away from the prop. These include loose clothing, or other objects such as pencils and screwdrivers. Especially keep your hands away from the propeller.

Double-check that all controls (aileron, elevator, rudder and throttle) move in the correct direction.

Check the radio installation and make sure all the control surfaces are moving correctly (i.e. the correct direction and with the recommended throws). Test run the motor and make sure it transitions smoothly from off to full throttle and back. Also ensure the engine is installed according to the manufacturer's instructions, and it will operate consistently.

Check all the control horns, servo horns, and clevises to make sure they are secure and in good condition. Replace any items that would be considered questionable. Failure of any of these components in flight would mean the loss of your aircraft.

Flying Your Funtana 300

Flying the Funtana 300 is about as fun as it can get. The Funtana 300 has been design to be flown more for sport flying than extreme 3D flying. The roll rate is not as fast as other 3D machines on the market and was not designed to be. This is a sport model for backyard flying at its best. Verify that your CG is at the correct location as per the manual and that you have your rates set up to your liking. Verify all control throws are in the correct direction and the motor spins in the correct direction as well.

Point the model into the wind and add some throttle trim until the motor begins to turn. This will be your flight idle. Now, apply power slowly. You will find the model will become airborne very quickly and at a low speed. This model excels at flying slow and easy as well as fast and extreme. Trim the model for level flight at half throttle. Only use full throttle for maneuvering.

You will find you can adjust the CG to your liking by moving the battery pack fore or aft in the fuselage.

To land the Funtana 300 just reduce the throttle to idle and feed in up elevator until the model settles into a slightly nose-high attitude. Gently fly the model down to the landing spot with a final flair at touchdown. You will find the model will have a very short roll out. We hope you enjoy the Funtana 300 as much as we do.

Happy landings.

2007 AMA National
Model Aircraft Safety Code

GENERAL

1) I will not fly my model aircraft in sanctioned events, air shows or model flying demonstrations until it has been proven to be airworthy by having been previously, successfully flight tested.
2) I will not fly my model higher than approximately 400 feet within 3 miles of an airport without notifying the airport operator. I will give right-of-way and avoid flying in the proximity of full-scale aircraft. Where necessary, an observer shall be utilized to supervise flying to avoid having models fly in the proximity of full-scale aircraft.
3) Where established, I will abide by the safety rules for the flying site I use, and I will not willfully or deliberately fly my models in a careless, reckless and/or dangerous manner.
4) The maximum takeoff weight of a model is 55 pounds, except models flown under Experimental Aircraft rules.
5) I will not fly my model unless it is identified with my name and address or AMA number on or in the model. (This does not apply to models while being flown indoors.)
6) I will not operate models with metal-bladed propellers or with gaseous boosts, in which gases other than air enter their internal combustion engine(s); nor will I operate models with extremely hazardous fuels such as those containing tetranitromethane or hydrazine.

RADIO CONTROL

1) I will have completed a successful radio equipment ground range check before the first flight of a new or repaired model.
2) I will not fly my model aircraft in the presence of spectators until I become a qualified flier, unless assisted by an experienced helper.
3) At all flying sites a straight or curved line(s) must be established in front of which all flying takes place with the other side for spectators. Only personnel involved with flying the aircraft are allowed at or in front of the flight line. Intentional flying behind the flight line is prohibited.

4) I will operate my model using only radio control frequencies currently allowed by the Federal Communications Commission. (Only properly licensed Amateurs are authorized to operate equipment on Amateur Band frequencies.)
5) Flying sites separated by three miles or more are considered safe from site-to-site interference, even when both sites use the same frequencies. Any circumstances under three miles separation require a frequency management arrangement, which may be either an allocation of specific frequencies for each site or testing to determine that freedom from interference exists. Allocation plans or interference test reports shall be signed by the parties involved and provided to AMA Headquarters.

   Documents of agreement and reports may exist between (1) two or more AMA Chartered Clubs, (2) AMA clubs and individual AMA members not associated with AMA Clubs, or (3) two or more individual AMA members.

6) For Combat, distance between combat engagement line and spectator line will be 500 feet per cubic inch of engine displacement. (Example: .40 engine = 200 feet.); electric motors will be based on equivalent combustion engine size. Additional safety requirements will be per the RC Combat section of the current Competition Regulations.
7) At air shows or model flying demonstrations, a single straight line must be established, one side of which is for flying, with the other side for spectators.
8) With the exception of events flown under AMA Competition rules, after launch, except for pilots or helpers being used, no powered model may be flown closer than 25 feet to any person.
9) Under no circumstances may a pilot or other person touch a powered model in flight.

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