

# Stinger 40

**WARNING! THIS IS NOT A TOY!**

**THIS IS NOT A BEGINNERS AIRPLANE**

**This R/C kit and the model you will build from it is not a toy! It is capable of serious bodily harm and property damage. It is your responsibility, and yours alone** - to build this kit correctly, properly install all R/C. components and flying gear (engine, tank, radio, pushrods, etc. and to test the model and fly it only with experienced, competent help, using common sense and in accordance with all safety standards as set forth in the Academy of Model Aeronautics Safety Code. It is suggested that you join the AMA and become properly insured before attempting to fly this model. If you are just starting R/C modeling, consult your local hobby dealer or write to the Academy of Model Aeronautics to find an experienced instructor in your area.

Write to : Academy of Model Aeronautics, 5151 Memorial Dr, Muncie, IN 47302

## LIMITED WARRANTY

Lanier R/C is proud of the care and attention that goes into the manufacture of parts for its model kits. The company warrants that for a period of 30 days, it will replace, at the buyers request, any parts or material shown to the company's satisfaction to have been defective in workmanship or material at the time of purchase.

No other warranty of any kind, expressed or implied, is made with respect to the merchandise sold by the company. The buyer acknowledges and understands that he is purchasing only a component kit from which the buyer will himself construct a finished flying model airplane. The company is neither the manufacturer of such a flying model airplane, nor a seller of it. The buyer hereby assumes the risk and all liability for personal or property damage or injury arising out of the buyers use of the components or the finished flying model airplane, whenever any such damage or injury shall occur.

Any action brought forth against the company, based on the breach of the contract of sale to the buyer, or on any alleged warranty thereunder, must be brought within one year of the date of such sale, or there after be barred. This one year limitation is imposed by agreement of the parties as permitted by the laws of the state of Georgia

© Copyright 1994 Lanier R/C Inc.

## **STINGER 40**

### **BUILDING INSTRUCTIONS**

The Stinger 40 is the fourth in the Stinger Series. It features the very successful BFPP ( balsa, foam, ply and plastic) system of construction embraced by Lanier throughout this popular series; having fewer parts, allowing for ease of assembly thereby promoting faster building.

The Stinger 40 has the same flight characteristics as its bigger brothers, proportionally that is. When powered with a strong 40 you can expect exceptional performance yet, it can be slowed down for that nice and easy landing. The type of sport plane you can consider your everyday fly'in machine and not have to worry about the time you spent putting it together. It didn't take that long.

We at Lanier are proud of our Stinger Series and know you will be happy with your purchase. We thank you.

Before starting to build, we urge you to read through these instructions while reviewing the plans. It contains important instructions and warnings concerning the assembly and use of this model. Some building tips have been included along the way to help you out. Or, if you have your own way of building so be it. At least read what we have to say then make your own determination.

#### **WING CONSTRUCTION**

1. Remove the foam wing cores from their shells and inspect them. Don't worry about left and right hand panels because the airfoil is symmetrical. Handle them carefully. Split the trailing edge of the shell so that you have two pieces. Break off the spar protrusion flush so that the inside surface is free of any obstructions. You will be using these shell halves during the wing construction.

2. Sand the surface of the panels lightly with 100 grit paper to remove any ridges and irregularities you might find. Do not over-sand.

3. Trial fit the 1/4" sq. spars in the grooves for a good fit. Make sure the spars are flush with the top surface of the wing. When satisfied, glue all four in place with white glue. Be sure the wing core is on a flat surface when pushing the spars in place so as not to induce a warp. **Tip: Round off the lower corners of each spar before gluing in place and lightly sand the sides of the slots. They will fit the slot much better.**

4. Pick out the root end of each wing panel to be joined and layout, on the foam, the notch in the leading edge. Also layout the slot for diecut part **WJ1**. Note that the notch is cut back to the spars allowing **WJ1** to tie in with them. The dimensions are specified on the plans.

5. Cutting the notch can best be done on a jig or band saw. A hand coping saw can be used if you are carefull. **Tip: Mount the core in its shell and tape in place. This will hold it in level position when cutting the notch and slot allowing for a better fit against F2 in the fuselage.**

6. Butt the wing panels together and trial fit **WJ1** joiner. Check to see that the trailing edges line up. This may require some sanding. A two foot long sanding stick with 100 grit paper is ideal for truing the edges. Don't even think about gluing the~ panels together yet.

7. Install a 3/16"x5/16"x24" trailing edge on each core. Use white glue and hold it in place with masking tape. When cured block sand to conform with the airfoil. **It is important to shape the trailing edge down so when the rear sheeting is installed the total thickness is 1/4"; the same as the aileron.**

8. Lay a 3/32"x1-1/2"x24" balsa sheet flush with the trailing edge. Use the opposite edge to draw a line from end to end. Spread contact cement in this area. Also spread contact cement on one side of the 3/32" sheet. We recommend Sta'-Put II Spray Adhesive especially formulated for Styrofoam. It is also water resistant. **When installing the sheet be careful to rest me core on a flat surface. Use this method to sheet all sides on both panels.**

9. Measure in 1/8" from the front edge of the wing spar. Strike a line the full length of the wing panel on all four spars.

10. Apply contact cement in the area between the line on the spar and the leading edge. Apply contact cement to one side of four 3/32"x3"x24" sheets. When ready, install each sheet by placing the edge on the line located on the spar. **Make sure you work on a flat surface while pressing the sheets in place.**

11. Trim off excess sheet on the leading edge flush with the foam. A long straight sanding edge will come in handy here. Glue the 3/8"x1" x24" leading edges in place. If the stick is crowned do not try to straighten it when taping in place. We have allowed extra width allowance on the leading edge. Use white glue and hold it in place with masking tape.

12. Install the 3/32"x1/4" capping with white glue in the position shown on the plans. Do both panels.

13. Sand the wing tip smooth and flat. Place the panel on one end and trace the airfoil on 3/32" sheet balsa. Cut out and glue in place. Do the same on the other wing panel.

Tip: When gluing on sheet balsa with white glue dampen the opposite side to prevent curling of wood to dry side.

14 Plane and sand the leading edge to match the plans. Use the long sanding stick to insure a true and straight edge.

15. Trim out the the excess sheeting over the leading edge notch.

16. Sand the root end of each panel square and smooth. Check to see that the panels fit squarely and the trailing edge lines up. Once satisfied, apply 30-min. Z-Poxy and join the panels on a flat surface. Install **WJ1** also. No dihedral is required. **Tip: Place a strip of wax paper in the center of one of the foam shells Align the two wing panels in the center, apply epoxy to both surfaces and WJ1, and push together. Use weights to hold the panels level and securely.**

17. Sheet the center section on both sides with 3/32"x3"x24" balsa. One sheet is required for each side. Use contact cement or Z-Poxy. Cap the sides of the leading edge notch with 3/32" sheet balsa using white glue.

18. Glue HD1 ( 1/8"x1"x3" lite ply) in place. It is installed on top and not inset into the wing.

19. Cut to length and shape the ailerons from the 1/4"x1"x24" sticks. Do not shape the leading edge until the hinge holes are drilled.

20. Locate and drill the 1/8" dia Hinge Point holes in the aileron and wing trailing edge. Make sure drill is perpendicular to surfa~ ensuring straight holes. **Tip: Make a simple drill guage from 1/4" sq. hardwood. Locate and accurately drill the hole locations for the hinges in the center of the 1/4" sq. stick. Allow enough over lap on the end to provide a stop block allowing the holes to be gauged from that end. Now tape the gauge securely, against the stop, to the**

**wing trailing edge making sure it is centered. Drill the 1/8" holes. Next, remove and tape the gauge to the aileron leading edge and drill the 1/8" holes 3/4" deep. Remove the gauge and the holes should match perfectly. This same method can be used to locate the hinges in the tail surfaces. You will find surfaces interchangeable that is, one will fit in another position.**

21. Now shape and sand the leading edge of each aileron. Install the strip aileron horn wires with Z-Poxy. When cured cut the slots for the bearings and fit to wing.

22. Locate and cut out the aileron servo well. Once the balsa is cut and removed it is easy to dig out the foam. Z-Poxy in the 3/16"x5/16" rails to support the servo.

23. Final sand the wing and prepare it for covering. Set aside until fuselage and tail surfaces are constructed.

### **TAIL GROUP**

1. Sort through the 1/4"x1/2" balsa sticks and pick out the hardest pieces. Use these for the trailing edge of the stab and leading edge of the elevator.

2. Cut to length and pin down on wax paper over the plans the 1/4"x1/2" balsa for the outline of the stab and elevator. Measure carefully and make good square joints. Glue in the 1/4"x2-1/8"x2-7/8" stab insert.

3. Fit and glue in the 3/16"x1/4" ribs and diagonal brace.

4. Notch out for the 1/4"dia elevator joiner dowel and Z-Poxy in place while elevator is pinned down. When cured, remove excess balsa behind it.

5. Build the fin and rudder in a likewise manner.

6. Locate and drill the Hinge Point holes in the tail surfaces as stated in step 20 of the wing construction by making a drilling jig.

7. Round off the leading edges, tips and trailing edges. Block sand the top and bottom surfaces. After final sanding Z-Poxy the fin to the stab making sure it is square and the two trailing edges of the stab and fin are even. Put the assembly aside until fuselage construction is started.

8. The tail surfaces can be covered at this time if desirable. It makes covering easier when not assembled to fuselage. Be sure to leave covering off the areas where glue is required. The tail group must be tack glued to the fuselage in order to fit the Turtledeck.

### **FUSELAGE CONSTRUCTION.**

1. Lay out the fuselage sides. You will need a **LH** and **RH** so choose the sides you want facing out.

2. Mark the locations of **F2** and **F3** inside on each fuselage side. Cut to length and glue in place all the 3/8" tri-stock and 3/16"x1/4" sticks down the back top side. Allow room for the formers. Leave extra room behind F3 so that sides can be bent sharply. Also leave room for F1 which will be installed later. The servo tray rails and W1's are added later.

3. Push out **F1**, **F2**, and **F3** from the diecut sheets. Laminate **F1** and **F2** using Z-Poxy

4. Lay one fuselage side on a flat surface and epoxy **F2** and **F3** in place. Use a square and make certain they are perpendicular to the side. When cured glue on the other side. Weight it down and pull the tail post together briefly to check alignment.

5. Score each side at the aft edge of F3. Bend each inward until they crack. This is to promote a straight side from F3 to the tail in order to accommodate the turtledeck.

6. Next, pull the tail end together. It is necessary to sand off the tri-stock and 3/16"x1/4" balsa so the two sides will just touch. **Tip: Using a thin piece of ply or metal, cement some 100 grit paper on both sides. Holding the two sides in one hand slide the double sided sanding stick in between the sides and work it back and forth. Sand only until the two 1/8" sides meet. If done properly you should have a good fit.**

7. Z-Poxy the tail sides together aligning them evenly. Cut and glue in the 3/16"x1/4" cross braces. Locate them from the plans. Add the 3/32" sheet to the bottom starting at the notch on the front side of **F2**. **Do not sheet all the way to the tail.**

8. Push out the part **B1** from the diecut sheet. Drill the .078 hole and slot as shown on the plans. Glue in place with the edge of the hole aligning with the end of the fuselage. Now finish sheeting up to **B1**.

9. Place the wing in the saddle. Pin it in proper alignment so that it will not move. Match drill the dowel holes in the wing from **F2** former. Use a 1/4" long drill. Glue in the 1/4" dowel wing-hold-owns. They should protrude from **WJ1** not more than 5/16" with rounded ends.

10. Prepare **F1** for the engine mounting. It is much easier to layout and drill the holes before gluing it in place. Locate the required holes from the mount.

11. Now complete the fuselage box by gluing in F1 and the 3/16"x3-1/4"x6-13/16" A/C ply bottom. **Use Z-Poxy**. Add the rest of the 3/8" tri-stock where shown on the plans to complete the bracing in the front.

12. Push out of the diecut sheet the two **W1's**. Clean up the edges and glue them in place between **F2** and **F3** on either side.

13. Locate and glue in the 3/16"x7/8"x2-3/4" A/C ply wing hold-down. Use Z-Poxy. Add the 3/8" tri-stock on each end of the bottom side to reinforce it. Make sure it is flush with the top surface of the fuselage.

14. This completes the fuselage box. Rough sand it rounding the sharp comers, clean up any excessive glue and prepare it for final sanding.

## **FITTING THE PLASTIC PARTS**

Now is the time to fit the top plastic pieces. The Tank Cover, Wing Cover and Turtledeck. Start with the Turtledeck. Notice the mold lines along each side and on the forward end. Using a straight edge and sharp knife, score along the sides and stab notch. Bend the plastic back and forth and it will break along the scored line. On the end It is best to use a drum sander on a Dremel Motor. Clean off the excess material up to the mold line. Make sure the notch on either side the front edge is according to the plans.

1. Push out **FT2** former from the diecut sheet. Clean up the edges and glue in place with CA glue. This will reinforce the front of the Turtledeck

2. Pin or tack glue the stab and fin assy. in place. Cut out the material in the fin fairing to form a slot. Trial mount the Turtledeck. The front edge should be even with F3. It may be necessary to cut down the fin fairing to make it fit properly. This is the only adjustment so do it carefully.
3. Fit the Tank Cover next. Trim to the mold lines as dicussed above. Push out **FT1** from the diecut sheet clean up the edges and glue in place where shown on the plans. Use CA glue.
4. Modify the plastic former as shown on the plans. Tack glue to the back surface of the Wing Cover leaving just enough room for the Wing Cover material thickness. Do this carefully for a good fit. Match drill the two 3/16" dowel holes from the plastic former into **FT1**. Carefully cut the plastic former loose.
5. Next, tape the Tank Cover and Turtledeck in place on the fuselage. Trim and cut off excessive material on the Wing Cover to the mold lines. Lay a small piece of wax paper over the rear end of the Tank Cover. Pin the plastic former in place by pushing two small 3/16" dowels thru the holes and wax paper. Make sure it is positioned properly before going any further.
6. Spread CA glue along the top edge of the plastic former. Carefully position the Wing Cover over it and hold in place until cured. Remove the Wing Cover and wax paper. Temporarily mount the wing and trial fit the wing cover with the wing. It may be necessary to do some trimming because of building tolerances. Don't forget to add the plastic reinforcement pieces over the two retaining holes. Cut these from scrap plastic. Glue in the two 3/16" dowels as shown on the plans when satisfied with the fit at the front edge.
7. Trim off the excess material on the canopy to the mold lines and fit it to the Wing Cover. Set aside until assembly.

## **LANDING GEAR**

1. Find the center on each leg and drill a 5/16" hole 1/4" up from the end. Locate and drill a 1/8" hole 3/4" up from the center of the 5/16" hole on each side.
2. Measure back on the fuselage 3 1/2" from the front surface of **F1**. Using a square draw a line across the fuselage.
3. Find the center of the landing gear mounting surface. Measure 7/8" both ways out center punch and drill the landing gear mounting holes with a #7 drill. (or 3/16")
4. Carefully center the mounting holes with the fuselage and with the locating line drawn on the fuselage and match drill. Mount the hardware and wheels. Locate them on the axle as shown on the plans. Temporarily mount the landing gear on the fuselage.
5. Locate the wheel pants and remove the saw flashing from them. Make sure the mating surfaces are flat by sanding them on a flat surface. Mate each half, align, and glue together with thin CA glue.
6. Cut out the wheel opening in each approx. 1-3/16"x2-1/2" with rounded corners. Here again it is best to use a Dremel Motor with a burring tool and drum sander. Reinforce the inside seam of each pant with a strip of glass cloth 3/8" wide. Use thin CA
7. Push out the two **P1's** from the diecut sheet and clean up the edges. Glue **P1** on the inside of the pant, centered with the wheel opening. Round off the ends to fit the pant flange. Glue a **P1** on the opposite side of the other pant making a **LH** and **RH** pant.

8. Remove the plastic under the slot in **P1** to form a continuous slot in the wheel pant side the same size as the slot in **P1**. Now do the other one.

9. Prop the fuselage up to level flight position. Slide the slot in the pant down over the hex on the axle, against the leg, making sure it has bottomed. Adjust the pant until it is level then mark the retaining hole location using the 1/8" hole in the landing gear. Remove the pant and install a #4 "All Threads" insert. The "All Threads" insert is nothing more than a specifically sized plastic tube that will provide insert and a locking feature for screws. Simply drill the specified size hole, push it in and apply thin CA to hold it. They are ideal for many applications such as this.

10. Trial mount the wheel pant with the screw specified on the plans. Now adjust and mark the other wheel pant and install the insert flush with the pant surface.

### **TAILWHEEL**

1. Bend the tailwheel strut as shown on the plans. Before forming slip on a 3/32" wheel collar in the position shown. The wheel collar will keep the tailwheel loads off the rudder hinges. Make sure the return bend at the top is 90 degrees to the axle so the wheel will track straight.

2. Drill a .078 hole in the rudder where specified and cut a small groove down the leading edge of the rudder to accept the strut. Z-Poxy the strut in place. It can be mounted before or after covering.

3. Mount the tailwheel and secure in place with a 3/32" wheel collar

### **ENGINE COWL**

1. The engine cowl is made in two halves. The upper half fits over the lower by 1/4". Temporarily tape them together and tack glue them with CA glue. Remove the tape and finish gluing.

2. Check the plans for the cutouts in the front. If you are not using a Pitts Style Muffler as we have shown, you will possibly need a different cutout in the bottom. All of the engine sizes will fit under the cowl and only a hole for glow plug access is required. A hole is also required for needle valve access with a side-mounted engine.

3. Mount the engine and measure from the firewall to the back plate of the spinner. Then add 5/8". This will be the length of your cowl. With the HP 40 our cowl came out to 4" in length. Trim off the back edge of the cowl. Some forward and aft adjustment can be made afterwards when mounting to fuselage.

### **FINISHING THE PLASTIC PARTS**

1. We found it best to finish and paint the plastic parts before installing them on the airplane if the trim design is not intrical with the lower half of the fuselage. Sand each part with 3M Scotch Brite to get rid of the glaze. Clean with rubbing alcohol and wipe with paper towel. Tack off with a tack rag. Apply primer to fill the minute scratches and imperfections. Sand with 600 paper. Now paint them with your favorite model paint. CA a stick temporarily to the inside of each part to hold it while painting. We recommend the following paints for compatibility with our plastic: 21 st Century, Formula U, Perfect Paint, and Hobbypoxy.

2. Once the plastic parts are painted, set them aside.

3. If you intend to install a pilot now is the time. The Williarns Bros. 2-5/8" Sportsman pilot is cut down considerably in order to fit under the canopy. Glue in securely.

4. Clean the canopy on the inside with a tack rag to pick up all the dust particles. Align the Wing Cover and tape in place. In order to attain a good fit be sure the Wing Cover is mounted on the fuselage and properly fastened at this time. Apply QC-56 glue around the edges using a glue gun. Be neat. When dry remove tape and apply glue where tape was. 1/8" trim tape can be applied over the joint to finish it off.

#### **INSTALLING THE AIRBORNE GEAR**

1. The prototype Stinger 40 balanced at 30% of the wing with components located as shown on the plans. If built according to plans you should be able to mount yours as shown and come close.

2. Notch the 1/8"x5/8"x7-3/4" ply servo tray rails to accept the 3/16"x1/2" cross supports. This is determined by the location of the servo tray. If moved forward from the position shown, that distance will have to be added to the aft end of each rudder and elevator pushrod.

3. With the servo tray rails notched, apply Z-Poxy and glue them in place with the lower edge resting against the top edge of the 3/8" tri-stock. Now glue in the cross members. Mount the servo tray / servos with the hardware supplied.

4. Makeup two pushrods as shown on the plans. As stated these can be made from 5/16" dowel if necessary but maintain the dimensions shown.

5. Cut the two pushrod exit slots in the back of the fuselage. Install the pushrods. NOTE: It may be necessary to bend the end wires slightly so the pushrods will not touch as they cross near the rear of the fuselage.

#### **FINAL FINISHING AND ASSEMBLY**

1. Cover the wings, tail and fuselage with your favorite covering. The control surfaces can now be hinged. Do not use CA glue to hold them. It will bind or even glue the hinge joint tight. We recommend epoxy or white glue for this purpose and use it sparsely to keep from getting in the hinge joint.

2. Z-Poxy the tail surfaces in place. Remove the covering on gluing surfaces. Place the wing in the saddle. Apply glue to the stab and align with wing.

3. Install the Turtledeck on the fuselage. Run a sharp knife along each side cutting thru the covering. Lift off the Turtledeck and remove the thin strip of covering from each side. Install it again and apply **thin CA all around the edges to hold it in** place. Make sure **FT2** is glued to the fuselage top securely. Install the scrap pieces of lite-ply to retain the "All Threads" and Wing Cover retaining screws.

4. Install the Tank Cover as described above making sure **FT1** is glued securely to the top of the fuselage sides.

5. Mount the wing in position. Drill the two wing hold-down holes in position shown on plans. Use a #25 drill. Remove the wing and tap the holes in the fuselage using a 1024 thread. Now drill out the holes in the wing with a #11 drill.

6. Install the aileron servo and hookup the linkage as shown on the plans.

7. Mount the Wing Cover and locate the screw retaining holes. Install the #6 "All Threads" inserts on each side. Use thin Ca to retain them.

8. Mount the Cowl and align with spinner. Locate and install three #6 "All Threads" where shown on the plans. The scrap piece of wood in the top of the Wing Cover is necessary to retain the "All Threads" inserts. Use epoxy.

9. Install the fuel tank, batteries and receiver. Use foam to wrap and protect these components. Run the receiver antenna out and along the bottom of the fuselage and fasten to the tailwheel strut with a rubber band.

10. Hookup the fuel line from the tank. Use a good grade such as Du-Bro's Super Blue Silicone # 222. Use pressure if the muffler has a pressure tap.

## **FLYING CHECK**

Before flying your Stinger 40, it is a good idea to check over the model to avoid first flight discouragement. Spend some time looking it over. Here are some of the things you can do to ensure success.

1. Check the radio for operation. Make sure the pushrods are not binding. And above all that make sure the servos **are moving in the right direction**. Especially the ailerons. Check and make sure the servo output arm screws are in and tight. That clevises are sound and have safety tubing in place.

2. Run the engine and become familiar with its operation. If it's a new engine run a couple tank fulls to become familiar with its starting habits and give it a slight break-in. Make sure the prop is balanced and the mounting bolts are tight.

3. Balance the model with no fuel in the tank. It should balance at the rear location shown on the plans with the nose slightly down.

You are now ready to fly and enjoy your Stinger 40. We know you will have a great time with it! So, what are you waiting for. **Take it out to the field and wring it out!**

## HARDWARE AND MATERIAL LIST REQUIRED TO FINISH THE STINGER 40

### GENERAL

1. 4 - Channel Radio with standard servos
2. Engine size - .32 - .46 two cycle or .40 - .53 four cycle
3. Fuel line - medium
4. Propellor- depending on size of engine
5. 2-1/4" spinner- Tru-Turn or Du-Bro
6. Fuel Tank- Du-Bro 8 oz.
7. Covering, paint and trim - your choice - see page 8 of instructions
8. 2-1/4" sullivan Sky-Lite

### FUSELAGE

1. Engine Mount - Hayes KM 40
2. Mounting Bolt Set - Du-Bro #129 - (engine mounting)
3. #10 - 32x3/4" bolt (2) - (landing gear)
4. #10 Fender Washer (2) - (landing gear)
5. #10 - 32 self locking nut (2) - (landing gear)
6. 5/32" Wheel Collar (4) - Du-Bro #140 - (landing gear)
7. Steel Axle - Du-Bro #247 - (landing gear)
8. #4 "All Threads" insert (2) - Ohio Superstar- (wheel pants)
9. "All Threads" insert (5) - Ohio Superstar - (cowl and wing cover retainer)
10. #4 Button Hd. Scr. (2) - Du-Bro #527 (wheel pants)
11. #6 Button Hd. Scr. (5) - Du-bro #530 (cowl and wing cover retainer)
12. #10-24 X 7/8" steel bolt (2) - (wing hold-down)
13. Nylon Kwik-Link with Rod (2) - Du-Bro #229 (fuselage pushrods)
14. Dave Brown Pushrod System (fuselage pushrods)

### WING

1. Strip Aileron Horn Wire/Bearing - Du-Bro #104 (wing servo)
2. Horn Connectors - Du-Bro #103 (wing servo)
3. Nylon Kwik-Link with Rod (2) - Du-Bro #229 (win~ servo)
4. Hinge Point (8) - Robart #308 (aileron hinging)

### TAIL ASSEMBLY

1. Control Horn - Du-Bro #237 (rudder and elevator)
2. Hinge Point (9) - Robart #308 (rudder and elevator)
3. .078 music wire (tailwheel strut)
4. 3/32N Wheel Collars (2) - Du-Bro #138 (tailwheel)
5. 1" dia Tailwheel - Du-bro # 100TW.

**BILL OF MATERIAL  
STINGER 40 WOOD, PLASTIC AND LANDING GEAR**

**WING**

- 2 - foam cores
- 4 - 1/4"x114"x24' balsa spars
- 2 - 3/8"x1"x24" balsa leading edge - balsa
- 7 - 3/32"x3"x24" leading edge sheeting, center section, wing tip & notch cap
- 4 - 3/32"x1-1/2"x24" trailing edge sheeting - balsa
- 2 - 3/16"x5/16"x24" balsa trailing edge
- 4 - 3/32"x1/4"x36" balsa wing rib capping
- 2 - 1/4"x1"x24" balsa aileron
- 1 - 1/8"x1"x3" lite-ply - die-cut wing hold-down plate (HD1)
- 1 - 1/8"x1 -21/32"x10" lite-ply - die-cut wing joiner (WJ1 )
- 1 - 1/4" dowel x 3" wing hold-down
- 1 - 3/16"x5/16"x3" aircraR ply - aileron servo mount

**TAIL SECTION**

- 4 - 1/4"x1/2"x36" balsa - outline trim
- 1 - 1/4x1/2 'x12" balsa - outline trim
- 2 - 3/16"x1/4"x24" balsa - cross and diagonal braces
- 1 - 3/16"x1/4"x12" balsa - cross and diagonal braces
- 1 - 1/4"x2-1/8" x 2-7/8" sheet balsa - sbb insert
- 1 - 1/4"x1-3/4"x 43/4" sheet balsa - fin insert
- 1 - 1/4" dowel x 43/8" elevator joiner

**FUSELAGE**

- 2 - 1/8" balsa sides - die-cut
- 2 - F1 -1/8" lite-ply - die-cut (firewall)
- 2 - F2 -1/8" lite-ply - die-cut (wing dowel retainer former)
- 1 - F3 -1/8" lite-ply - die-cut (wing hold-down former)
- 1 - FT1 -1/8" lite-ply - die-cut (tank cover former)
- 1 - FT2 -1/8" lite-ply - die-cut (turtledeck former)
- 2 - P1 -1/8" lite-ply - die-cut (wheel pant support)
- 1 - B1 -1/8" lite-ply - die-cut (tailwheel support)
- 2 - W1 -1/8" lite-ply - die-cut (wing saddle)
- 1 - 3/16"x3-1/4"x6-13/16" aircraft ply - front bottom
- 2 - 3/16"x1/4"x24" balsa - rear fuselage reinf.
- 1 - 3/16"x1/4"x12" balsa - rear fuselage cross braces
- 2 - 3/8" tri-stock x 36" - fuselage reinf.
- 1 - 3/8" tri-stock x 24" - fuselage reinf.
- 1 - 3/16"x7/8"x2-3/4" aircraft ply - wing hold-down
- 2 - 1/8"x5/8"x7-3/4" door skin ply - servo tray support
- 2 - 3/16"x1/2'x3" aircraft ply - servo tray support
- 1 - 3/32"x3"x24" balsa - bottom sheeting
- 1 - 3/16" dowel x 2" wing cover hold-down

**PLASTIC**

- Cowl
- Tank Cover
- Wing Cover
- ABS Former
- Turtledeck
- Wheel Pants
- Canopy

**MISC.**

- Formed Landing Gear
- Plans and Building Instructions

Telephone 770/532-6401  
Fax: 770/532-2163

## Parts List - STINGER 40

Shipping Address:  
4460 Oakwood Road  
Oakwood, GA 30566

Wing Kit, Complete.....	34.95
Wing Panels, pr. foam only.....	19.95
Fuselage Sides, pr.....	9.95
Fuselage Kit (Wood, Turtledeck, Tank Cover).....	34.95
Turtledeck.....	9.95
Tank Cover.....	4.95
Wing Cover.....	9.95
Wing Cover (Front Bulkhead).....	1.50
Canopy.....	4.95
Engine Cowl (Right & Left).....	9.95
Landing Gear.....	9.95
Wheel Pants.....	8.95
Instructions & Plans.....	9.95

IF THE PART YOU WANT IS NOT LISTED, USE THE LIST AS A GUIDE AND SEND A SKETCH OF WHAT YOU WANT. WE WILL DO OUR BEST TO SEND WHAT YOU NEED.

METHODS OF PAYMENT: C. O. D., VISA, MASTERCARD, AND AMERICAN EXPRESS. PREPAID ORDERS PLEASE ADD \$ 8.75 TO COVER SHIPPING CHARGES.

### PARTS ORDER BLANK

NAME:	PARTS NEEDED:
STREETADDRESS:	1
City/State	2
ZIPCODE:	3
PHONE#	4
	5

METHOD OF PAYMENT:  
C. O. D., CHECK ENCLOSED, VISA, Mastercard. & TYPEMODEL:  
American Express  
NUMBER  
EXPIRATION DATE

Your order will be shipped by UPS. Send this Completed coupon to:  
Lanier R/C  
P. O. Box 458  
Oakwood, GA. 30566  
ATTN: Parts Department

LANIER R/C