

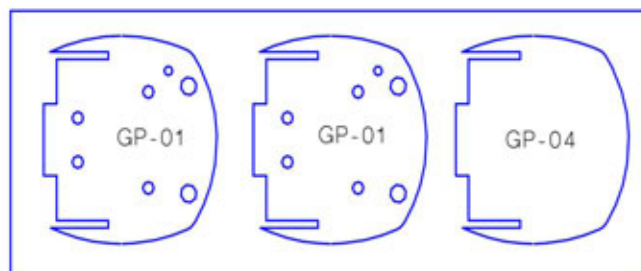
Super Dragon Glow Conversion

Kit # AG-501

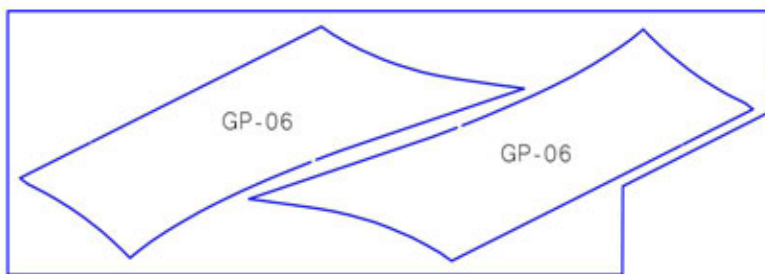
Kit Contents:



LC-G501-01 3mm X 6" X 24" Poplar Ply 1 REQD.



LC-G501-02 3mm X 4" X 12" Poplar Ply 1 REQD.



LC-G501-03 1/8" X 4" X 12" Balsa 1 REQD.

Wood Bag:

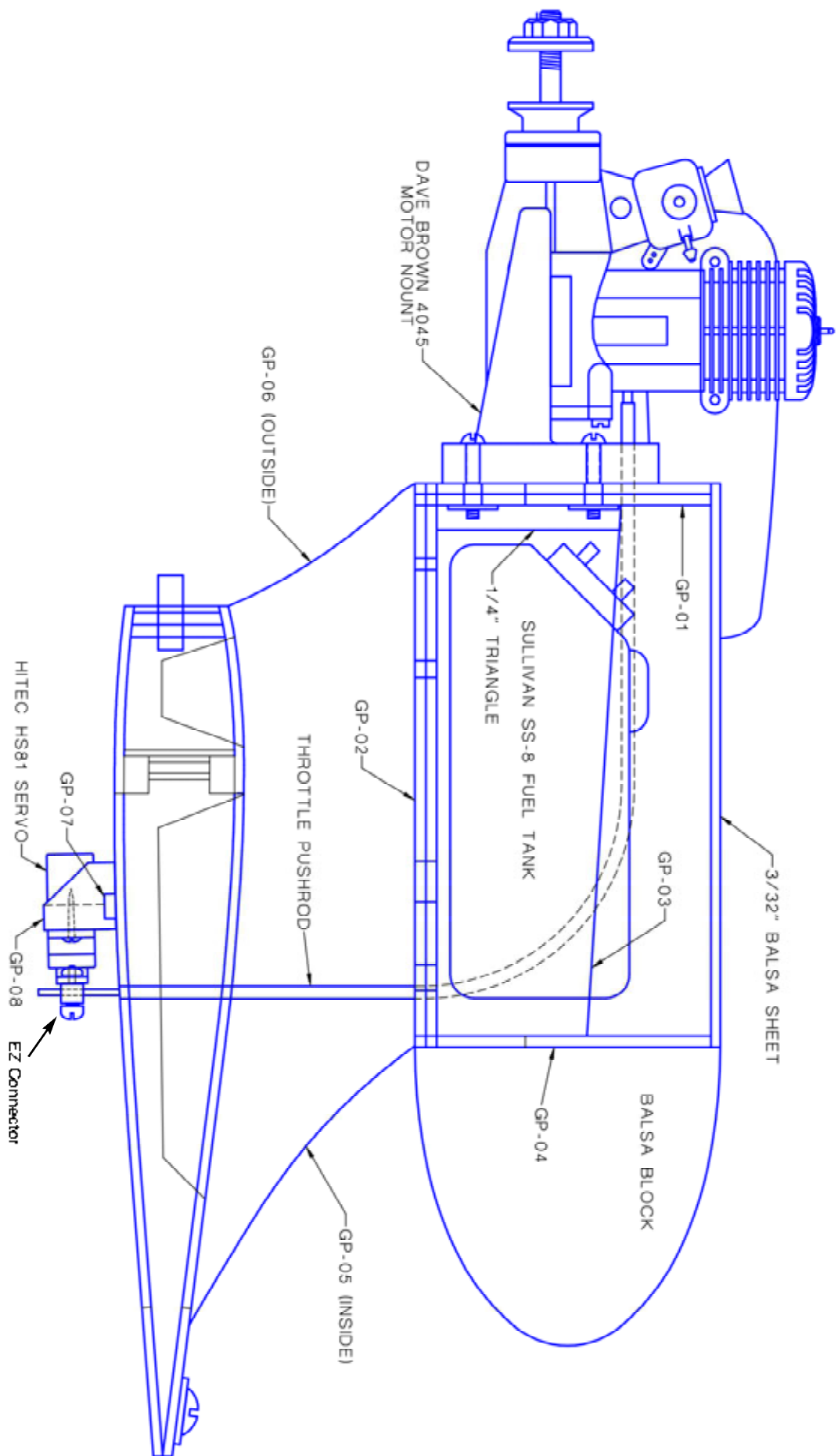
Qty.	Name	Description
1	LC-G501-01	3mm X 6" X 24" Laser Cut POPLAR PLY
1	LC-G501-02	3mm X 4" X 24" Laser Cut POPLAR PLY
1	LC-G501-03	1/8 X 4" X 12" Laser Cut Balsa

Misc. Loose Parts

Qty.	Name	Description
1	.1/4" X 4" Balsa Triangle	
1	.3/32" x 4" x 24" Balsa Sheet	
1	.3" X 3" X 3" Balsa Block	
2	.1/2" x 3" x 3" Balsa Block	
1	!1/4" sq. x 2" Spruce	

Additional Items Required (Not Included in Kit)

Qty.	Name	Description
1	Motor	40 Size Two Cycle Glow Motor
1	Motor Mount	Dave Brown 4045 Motor Mount (or mount to fit your motor)
4	Motor Mount Screws	.6-32 x 3/4" Machine Screws
4	Motor Screws	.6-32 x 1" Machine Screws
1	Propeller	.10" x 6" Propeller
1	Fuel Tank	Sullivan # 439 SS8 Slant Style Fuel Tank
1	Throttle Pushrod	Sig SIGSH559 Flexible Cable Pushrod
1	Fuel Line	DuBRO #222 Medium Fuel Lin
1	Foam Rubber	DuBro # 513 1/4" Foam Rubber
1	Spinner	OPTIONAL DuBro 2 1/4" Spinner
1	Throttle Servo	HiTec HS-81 Micro Servo or Equivalent
1	Throttle cable to servo	DuBro EZ Connector DuBro #121 EZ Connector



Building Instructions:

Building the Glow powered version of the Super Dragon is almost identical to building the electric powered version. The main difference between the models is the motor pylon. As such, you should follow the regular instruction manual to build the model up to step 125 with the following exceptions:

Step 21...You do not need to glue Velcro to the battery tray. In the glow version you will wrap the radio battery with foam rubber and place it in the nose of the model. The foam rubber will wedge it in place and it should not move around.

Step 54...The holes for the aileron servo wires in the bottom of the center section should be smaller and farther forward than shown in the photo to make room to mount the throttle servo on the bottom of the wing.

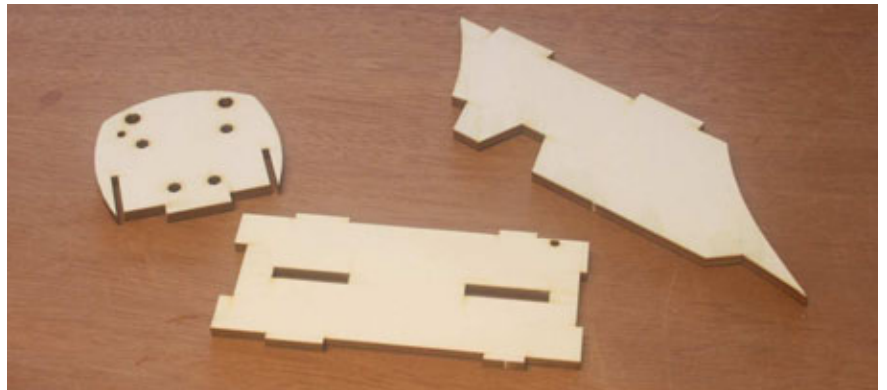
Step 60...You do not need to remove the mounting hole for the arming switch. It is not used in the glow powered version.

Step 61 - 64...Do not cut out the hatch. It is not needed as you will not be replacing the battery between flights.

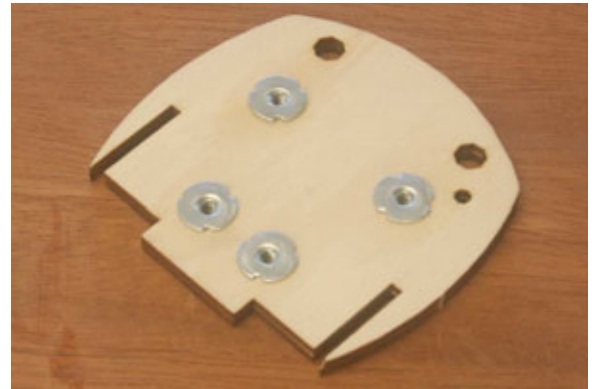
Steps 125 - 129...Do not use these. The pylon is built using the following steps:

Building the Motor Pylon:

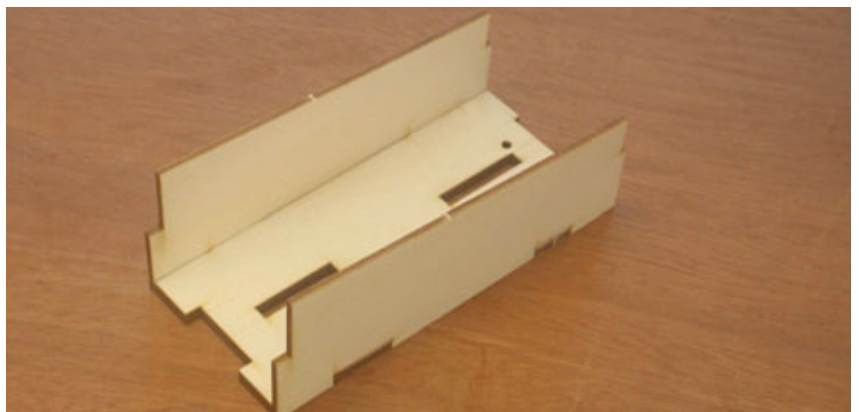
1... Securely glue the two GP-01's, GP-02's and GP-05's together as shown. There is a lot of force and vibration on the pylon so it is best to use Epoxy to assemble all of the plywood parts on the pylon.



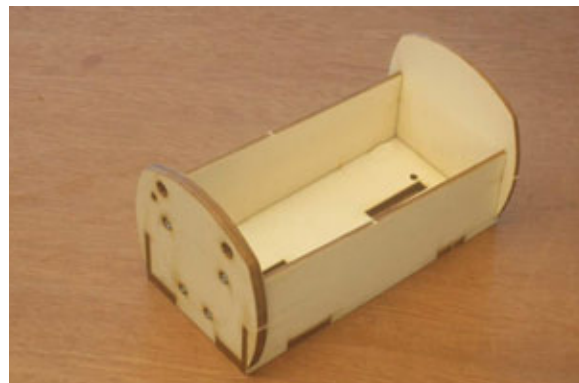
2...Press the four 6-32 blind nuts into the holes in the back of the fire-wall (GP-01). Secure them with a small drop of thin C/A glue.



3...Glue the GP-3's to the sides of GP-2. They should be 90 degrees to each other.



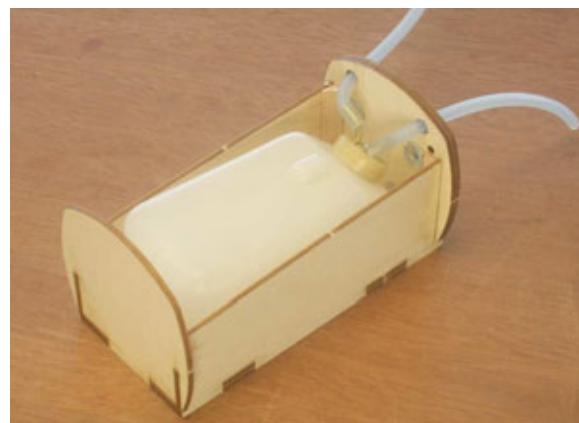
4...Glue GP-01 and GP-04 to the pylon assembly.



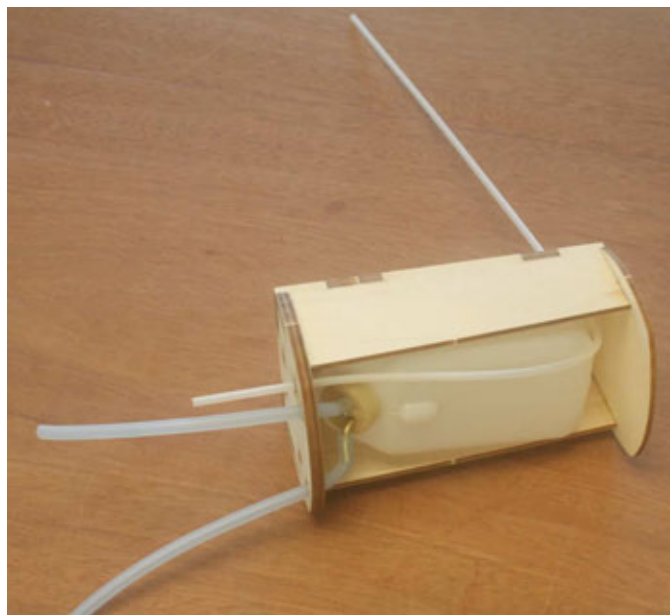
5..Glue the 1/4" triangle into the corner of GP-01 and GP-03. Use clear polyurethane or clear dope to fuel proof the inside of the pylon. You do not need to use enough to get a nice finish on the wood. A thin application allowed to soak into the wood will be fine.



6...Assemble the fuel tank. Place it in the pylon assembly. Run the fuel and vent lines through the holes in GP-01. Use 1/4" foam rubber on the bottom and the sides to hold the tank in place.

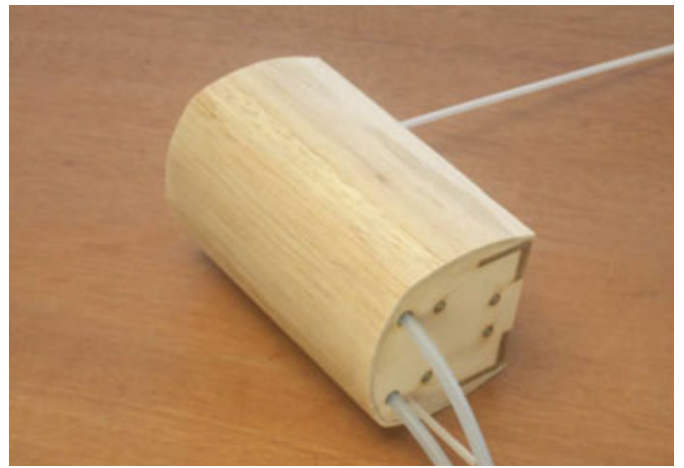


7...Install the throttle pushrod housing as shown here and on the plan (page 2 of these instructions) Securely glue the housing into the holes in GP-01 and GP-02.

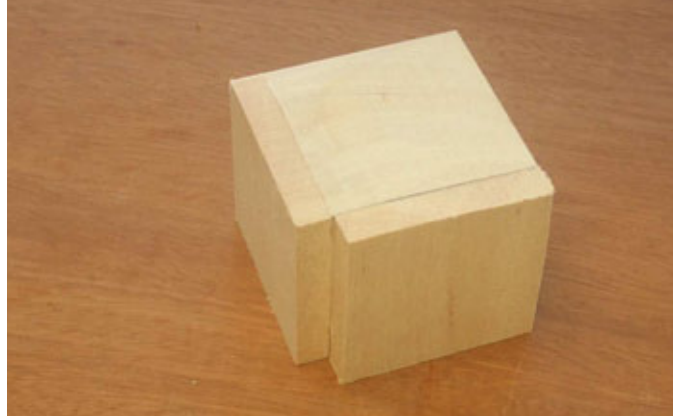


8...Glue 3/32" balsa sheet to the outside of the pylon. Moisten the outside of the sheet with an ammonia based glass cleaner like Windex to soften the wood and allow it to bend around the curves better. You can use C/A glue for this step.

When the glue is dry, trim the sheet flush with the front, back and bottom of the pylon.



9...Glue the two 1/2" x 3" x 3" balsa blocks to two sides of the 3" balsa block. The grain on these parts should be going the same direction. You can use C/A glue for this step.



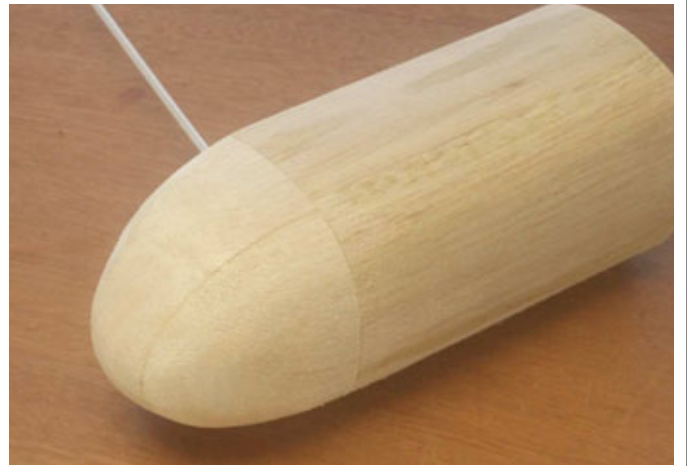
10...Glue the balsa block to the back of the pylon. The bottom should be flush with the bottom of GP-02. The grain of the blocks should run fore and aft. You can use C/A glue for this step.



11...Trim the top, bottom & sides of the block to match the profile shown on page 2.



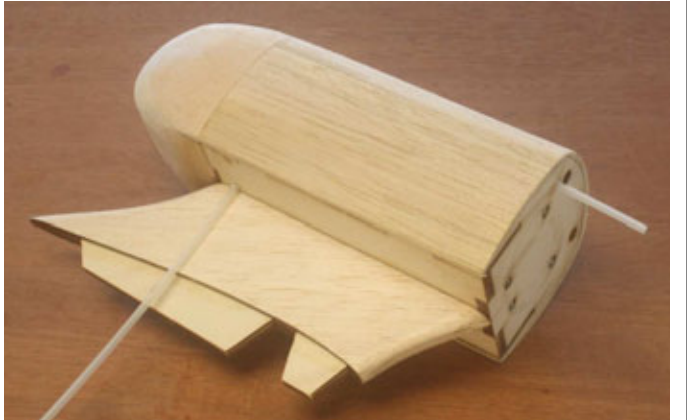
12...Sand the block round. Sand the pylon smooth all over.



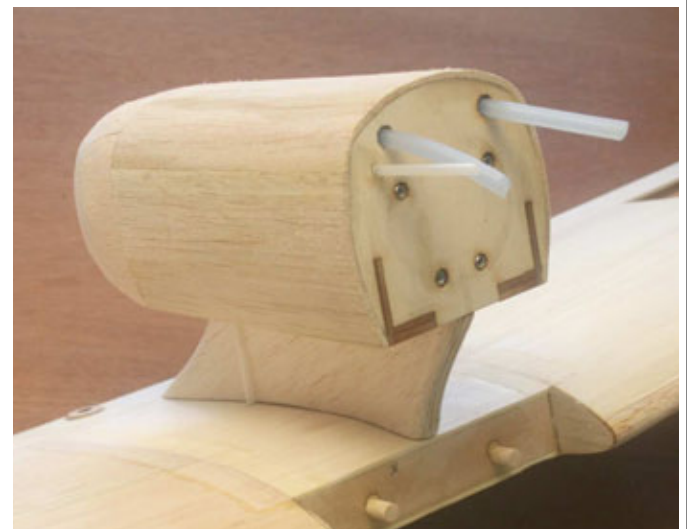
13...Glue the GP-06's to each side of GP-05. When the glue is dry, sand the front & back edges round. Do not sand the top & bottom.



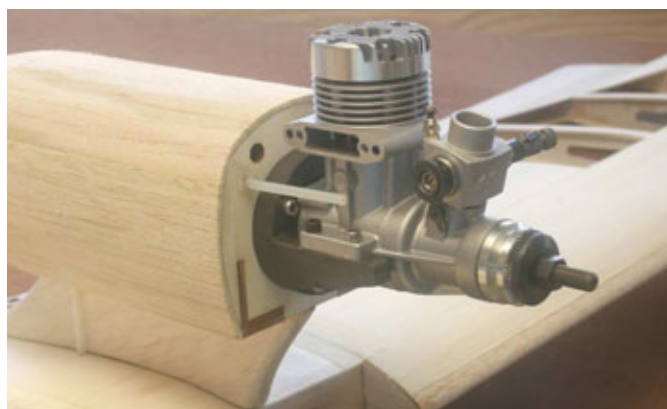
14...Securely glue GP-5/6 to the bottom of GP-02. Use epoxy.



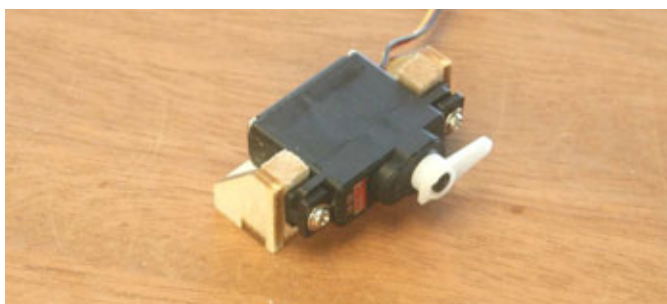
15...Test fit the pylon to the wing. Drill a hole in the wing for the throttle pushrod housing to pass through. Do not glue the pylon to the wing at this time.



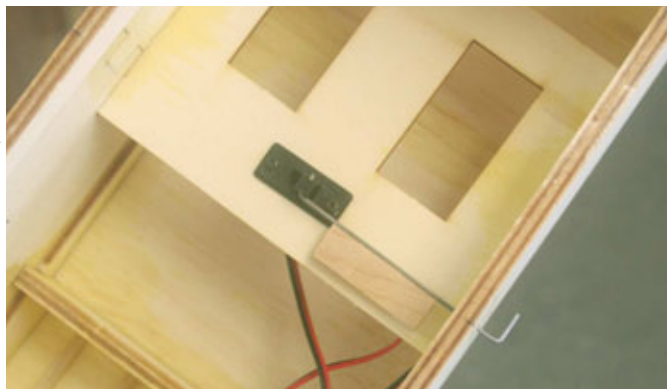
16...Test fit the motor mount & motor onto the pylon. Remove them. Use clear polyurethane or dope to fuel proof the front of the firewall. You do not need to use enough to get a nice finish on the wood. A thin application allowed to soak into the wood will be fine.



17...Make the throttle servo mount by gluing the two GP-8's to the ends of GP-07. Glue two pieces of 1/4" sq. spruce to the insides of the GP-08's as shown. Now mount the throttle servo onto the mount. Mount the servo up so that there is at least a 1/8" gap between the servo and GP-07.



18...Mount the radio switch in the cutout in the front of the servo tray. Use a wire extension from a hole in the switch to the outside of the fuselage. Glue a piece of scrap balsa in front of the wire to trap it in the switch.



Now continue with the covering instructions in the main assembly manual.

Follow the remainder of the final assembly steps in the main manual with the following exceptions:

Step 142...You do not need to mount the arming switch.

Step 144...You do not need to mount the electronic speed control.

Steps 145 -148...Not applicable.

Step 149...Do this step.

Step 150...Do this step. Use epoxy. You do not have to run the motor wires but you do need to glue the pushrod housing to the top & bottom of the wing. When the glue is dry, trim the pushrod housing flush with the bottom of the wing.

151-154...Not applicable.

...Mount the motor & mount to the firewall.

...Glue the throttle servo mount to the bottom of the wing. Remove the covering from the wing at the location of the servo mount.

...Install the throttle pushrod. Use a nylon clevis to connect the pushrod to the motor. Use an EZ Connector to connect the pushrod to the servo.

...Install propeller.

Steps 155-161...Do these steps.

Step 162...Not applicable.

Steps 163-end...Do these steps.