

Pasontech.com Present

E-Evolution

E-Power 73A Aerobatics Airplane

For Intermediate & Advanced Fliers.

SAFETY PRECAUTIONS

This radio control model is not a toy!

First-time builders should seek advice from people having building experience in order to assemble the model correctly and to produce its performance to full extent.

Assemble this kit only in places out of children's reach!

Take enough safety precautions prior to operating this model.

You are responsible for this model's assembly and safe operation!

Always keep this instruction manual ready at hand for quick reference, even after completing the assembly.

Notice:

By the time the Yak arrives in your shop, it will have endured several climate changes. As a result you may find some wrinkles in the covering and wing or fus. Part maybe have some twisted. This is not a manufacturing defect. Please take a few moments with your iron or heat gun to remove any wrinkles and correct all twisted parts. Iron over all the edges to ensure they are sealed.

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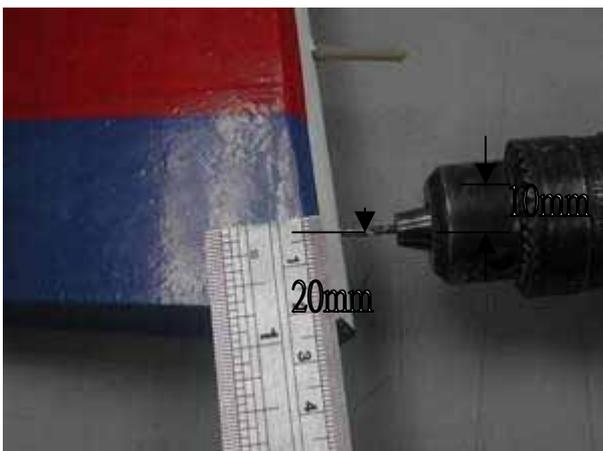
Find the Tail gear assemble parts as show.



Cut out film as hole
Glue the four pin hinges with
Epoxy.



Install the tail gear wire in to the
gear mount.
Then bending the wire as the show.
Install the tail wheel and wheel
stopper as show.



Drill a 2mm hole into the exact
center of the rudder as marked to
accept the tail wheel wire.



Install the tail wheel wire to the Rudder and Glue the with Epoxy.



Install the Rudder to Fin and Fus. Keep the Rudder and Fin top have 1mm grip . Glue them in piece.



Drill four 1.0mm hole
Fix the tail gear with four 2X13mm TP. Screw.

TP. Screw 2X13MM X4



find the Rudder control parts as show.



Trim off covering film as show.



.Check the Rudder control horn in line as the wire outlet.



Install Rudder control as show



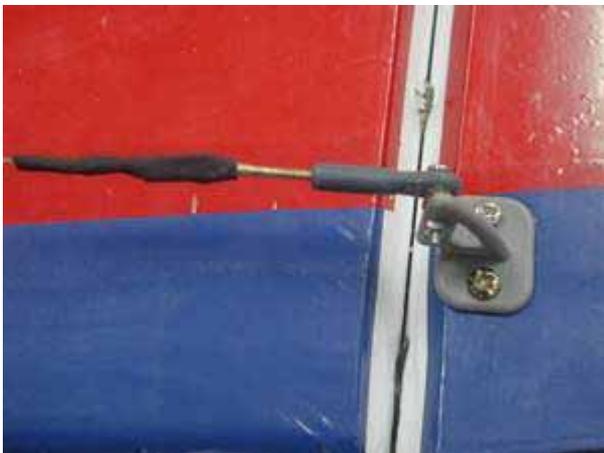
Assemble ball link end and wire as show



Use any tool to made the wire stopper pipe tight as show.



Use some heat to made the heat sink tube to cover wire stopper pipe as show.



Install the ball link end with two M2 screw as show.



Use same way as Rudder Horn to assemble Rudder servo horn as horn.

PIN hinges X8



After check the last hinges will not stop Stab. Join. Glue Stabilizer and Elevator together with epoxy.



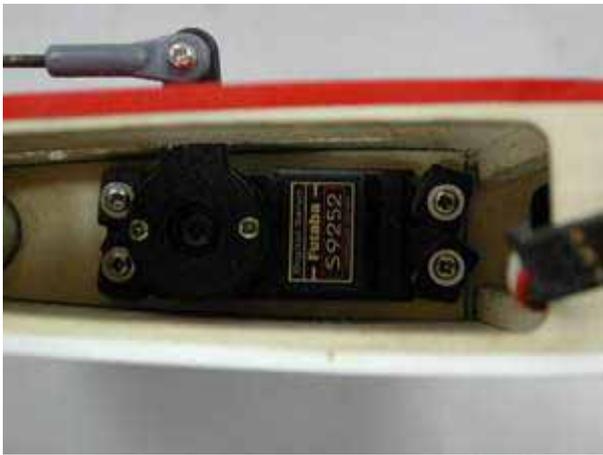
Cut the last two hinges 3mm shorter
So the last hinge will not stop the
Stab. Join inside the Stab.
glue four hinges to each Elevator.



glue four hinges to each Elevator to
each side Stabilizer.



At the Stabilizer bottom trim off the
film servo horn slot as show.
Elevator servo bay was inside



Stabilizer and it size was stander size servo.



Install the carbon anti roll pin as show to each Stabilizer and glue it together with thick CA. or epoxy.



Check Elevator servo horn
And Elevator horn was inline.



Install the Elevator control horn as show.



Cut the push rod to 35mm.



Use iron to solid the push rod connector as show .
After the push rod cool down install the ball link end as show.



Install the Elevator control push rod as show.



Install the carbon join to Fus. as show .



Install each Stabilizer on lower side of the Fus. With four M3 X 15mm screw and washer.
Important notice: Please apply “thread locker” before you install Stab. Screw.
Connecting the servo lead before you install the Stabilizer.



Install each Stabilizer on upper side of the Fus. With four M3 X 15mm screw and washer.
Important notice: Please apply “thread locker” before you install Stab. Screw.
Connecting the servo lead before you install the Stabilizer.



Find the Aileron linkage set as show.

Install aileron linkage as the show.

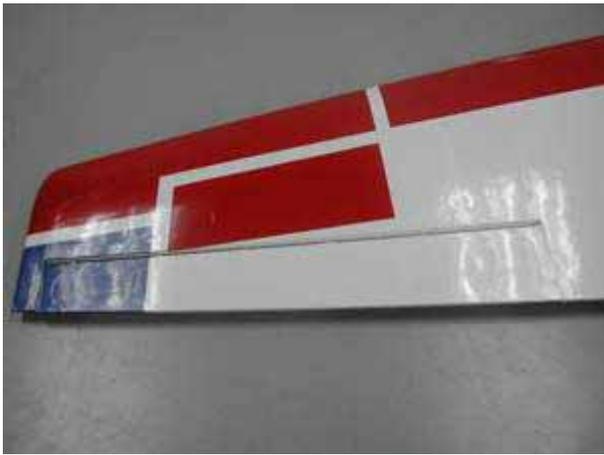


Trim off the covering film as show.



Install and Glue seven pin hinge in to each side Aileron.
Glue them in piece with epoxy.

PIN hinge X 7



Install each side Aileron. To each side wing panel.
Glue them in piece with epoxy



Trim off the cover film at servo bay area under each wing panel.



Check the aileron Control horn and servo horn in line as show.



Install aileron Control horn the show.



Cut the push rod to 45mm.



Use iron to solid the push rod connector as show .



After the push rod cool down install the ball link end as show.



Install aileron Control push rod as show.



find two wing hookup plate as show.



Install the wing mount plate from inside wing root at both LE. And TE.



Glue the wing mount plate from inside wing root at both LE. And TE. With Epoxy.

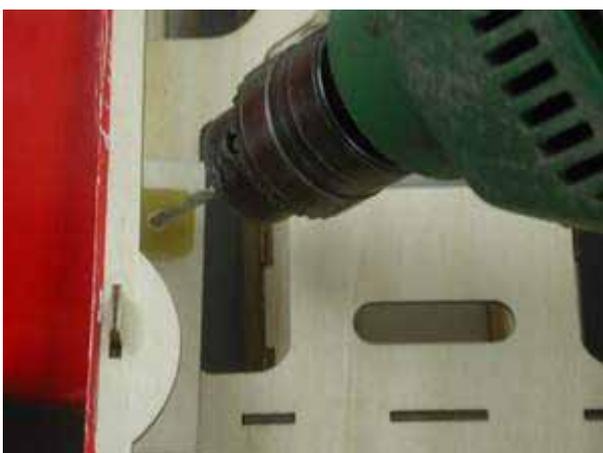


Use M3X 15mm screw to fix the canopy.

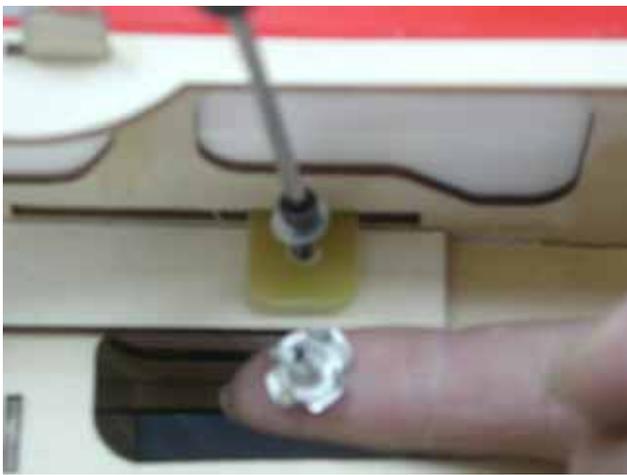
Notice: please use the "O" ring and washer to make the canopy screw not easy to loosing .



Before you install wing panel to fus. Trim off the cover at wing mount slot as show.



Follow the mount plate hole to drill a 3mm hole then remove the wing and make hold bigger for blind nut as show.



Install blind nut on wing mount and use screw to made the blind nut tight as show.



We stronger recommended After you find out the good CG. Point for your flying style.
Reinforce your airplane with FRP.
Wing join tube and ply support.



Find the canopy and wire lock parts as show.



Follow the slot to trim off covering film for Fus. Side as show.



Install wire and glue wire and the wood block in place as show.



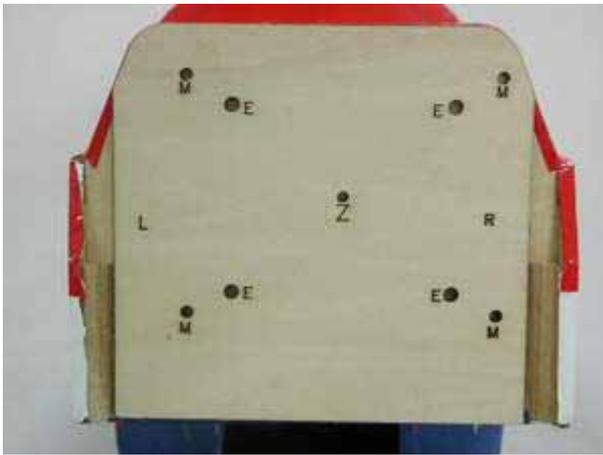
Install the wire end cover as show.

Important notice:

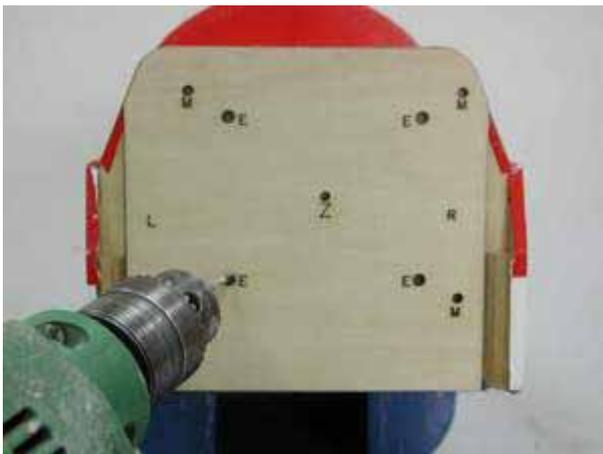
Please glue the wire end cover before you use it. If you not install wire cover it will cause injury.



Find the engine mount and template as show.



Placing engine mount template as show.



Follow engine mount template to drill the hole the engine or motor that you use on the fire wall.

Notice: "M" mark was for YS140-160 or OS.160 .

"E" mark was for "Hacker C50 XL motor.



After drill the engine mount hole the engine or motor that you use on the fire wall.

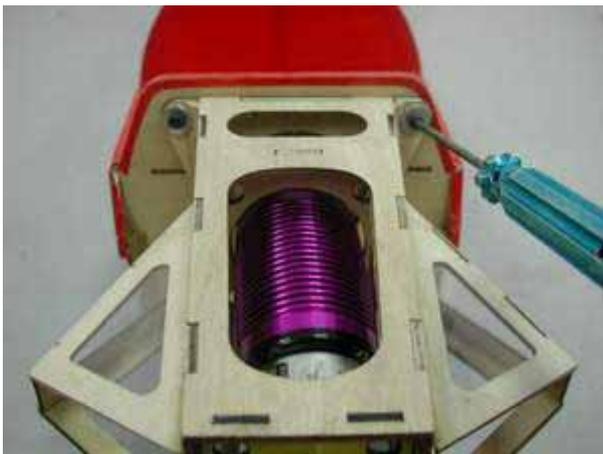
Install four blind nuts from back side of fire wall. as show.



Follow the mark to drill eight 3mm hole.



Install the motor as show.



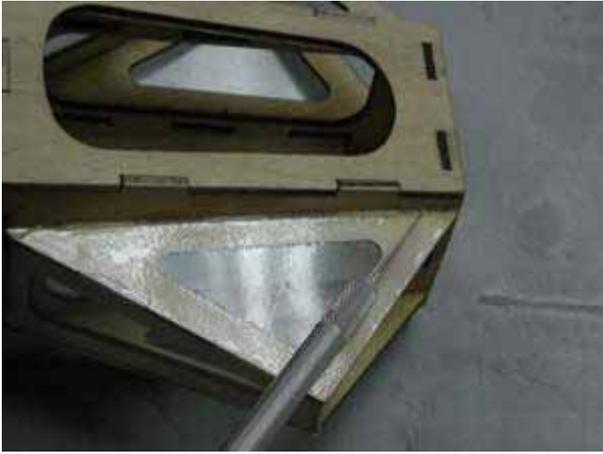
Install the motor mount as show.



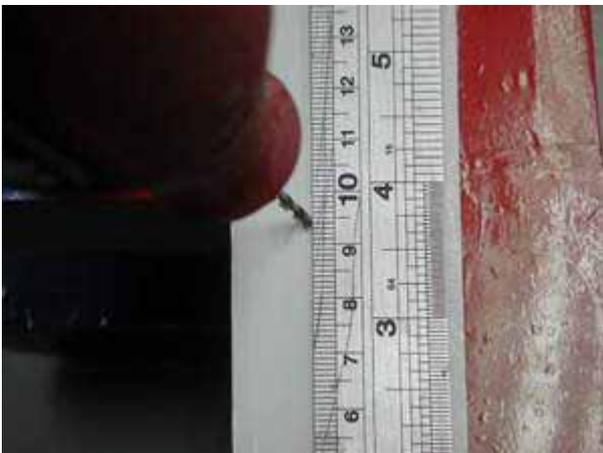
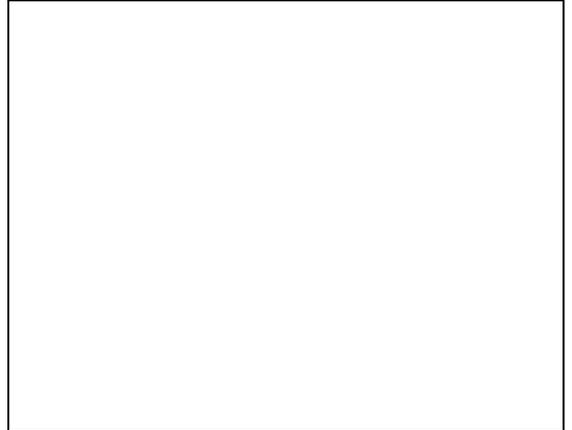
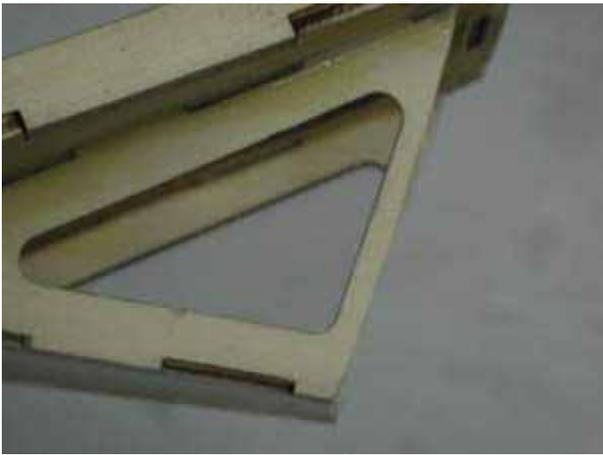
Find cowl fix parts.



Install the cowl and and made sure the drive hub have distance for cowl end 3mm.



If you find the motor mount will touch the cowl.
Please cut the cooling vent shorter as shorter as show.



After you trim fit the motor mount with the cowl drill two 4mm hole at each side of cowl and fus. Side .
Then install two blind nut at each Fus. Side.



Install two “O” ring at each side of cowl as show.



Fix the cowl with four M3 screw.



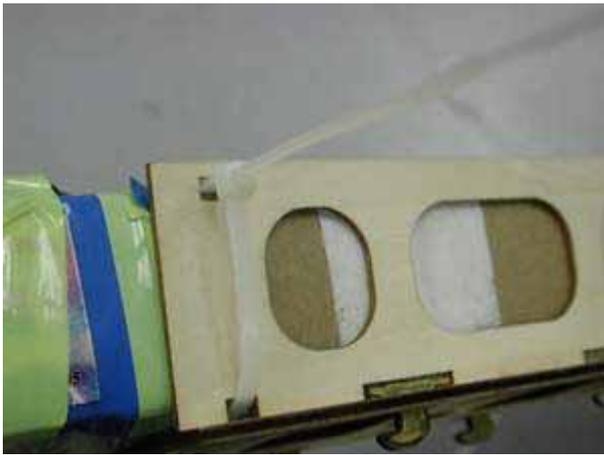
Find the battery tray as show.



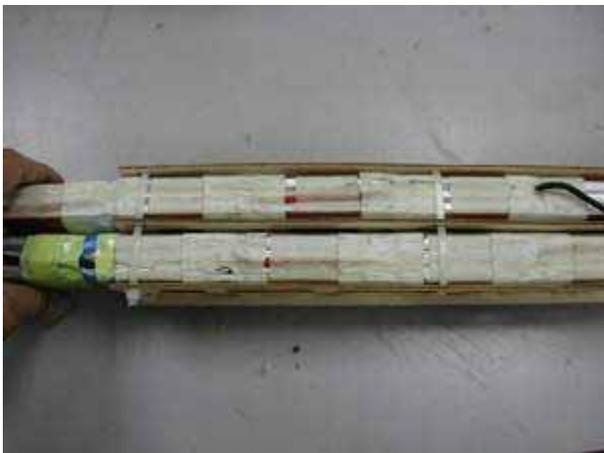
Assemble FRP. Teeth as show.
Notice: the teeth direction was forward.



Assemble battery tray as show.



Install the battery in side the battery tray, if the are differ size you can choice not use the center plywood.



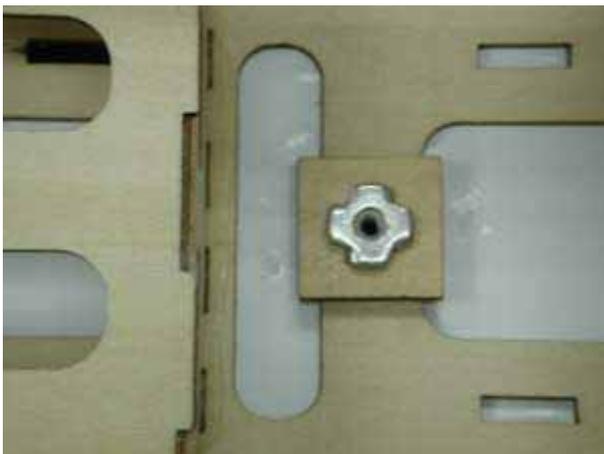
Fix the battery with wire tight.



Trim off the film at slot area.



Install the battery under pipe tunnel then follow the hole at end of battery tray to drill a 3mm hole.



Follow the hole to install a blind nut for battery tray fix.



Lockup the battery tray with a M3 screw.



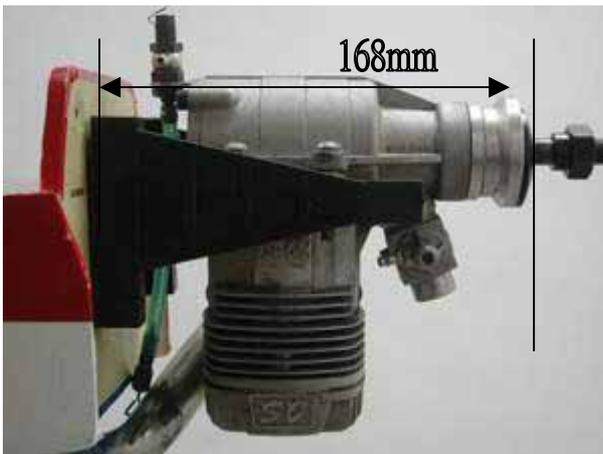
If you choice use Glow power. Follow engine mount template to drill the hole the engine or motor that you use on the fire wall.

Notice: "M" mark was for YS140-160 or OS.160 .

"E" mark was for "Hacker C50 XL motor.



We recommend you if you use high vibration engine such “YS” 4T engine , you should use a good soft mount, unless will cause airplane damage.



The motor drive hub distance from fire wall 168 mm



Find the fuel tank as show.



Assembling the Fuel line in fuel tank as the show.



If use use glow engine with a pump or Gas engine you can use the fuel tank mount made fuel tank on CG. Point. If your engine with no pump, you must install engine near by engine or add a fuel pump. If you use E-power, you don't need to install this fuel tank mount at all.



Drill a 40mm hole at each wheel pants.



Inset the wheel Axle inside the wheel pants.



Install the wheel shopper at wheel axle.



Install the wheel shopper at wheel axle between wheel and wheel pants.



Install the wheel second shopper at wheel axle to hole wheel.
Then fix shopper with set screw.



Trim off the cover film as show.



Install the landing gear sleeve inside fus. If there have some thing made you can not inset the sleeve, please use sanding paper or file made that sleeve more easy to inset to Fus. But don't made it too loosing.



Inset landing inside the sleeve as show.



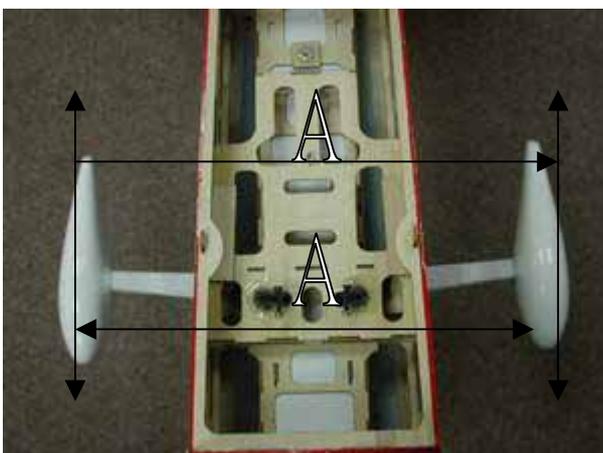
Install the landing gear in sleeve then use a M3 screw and lock nut fix it together.

And use Epoxy to glue it with fus. Together.

Important notice: before you glue landing you must make sure a pair wheel must be straight with center of fus



Glue the wheel pants and landing gear with Epoxy.



Before you glue the landing gear , please check and make sure the main wheel are straight with center line of Fus.



If you choice a tuned pipe for your Exhaust .

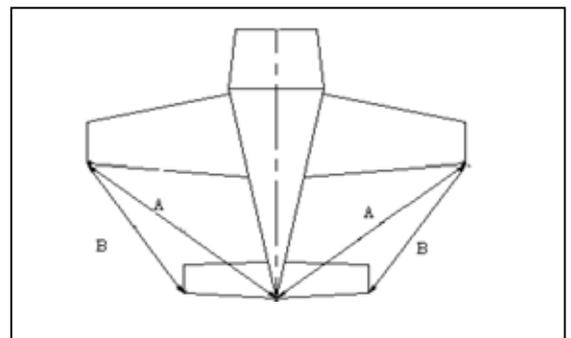
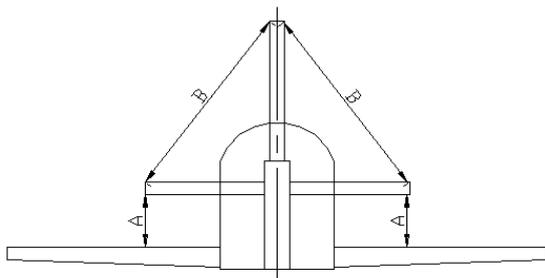
Please follow your tuned pipe.manual to install the tuned or you can follow here. Drill two 3mm hole at top of pipe tunnel as show.



Then use two M3 screw to fix the pipe as show.



The pipe after install as show.



Check the all Alignment as the show before you install wing and tail plane.*

Parts list E-EVOLUTION

p.01

Code	NO.	Description	DIM.	QUT'Y	
A	ME030	TAIL LANDING GEAR	Φ6X50	1PC	
	PI012				
	WH014	TAIL WHELL	Φ2.5 X 13	1pc	
	ME001	COLLAR	M2	2pcs	
	ME029	SET SCREW	Ø3x3	2pcs	
		WINCH KEY for SET SCREW	Φ1.5X30	1PC	
		TP. SCREW	Ø2X12	2 pcs	
		TP. SCREW	Ø2X12	2 pcs	
B	PI003	PIN HINGES FOR RUDDER	Ø2.5X48	4pcs	
	RO005	RUDDER CONTROL HORN	2.5X28.6	2pcs	
		HORN SCREW FOR RUDDER	3X30	2pcs	
		HORN NUTS FOR RUDDER	M3	2pcs	
	LK03S	BALL LINK END		4 set	
	ME015	BALL LINK CONNENTOR	Ø2X20	4PCS	
	ME033	RUDDER CONTROL WIRE	0.6X1150	2PCS	
		SINK TUBE FOR CONTROL WIRE	3x30	4PCS	
	ME023	RUDDER CONTROL WIRE PIPE	1.8X10	4PCS	
	RO002	RUDDER SERVO EXTEND HORN		1PCS	
		RUDDER SERVO EXTEND HORN SCREW	Ø2X 6	2PCS	
		SERVO EXTEND HORN NUTS	M2	2pcs	
C	PI003	PIN HINGES FOR ELEVATOR	Φ2.5X48	8PCS	
	RO006	ELEVATOR CONTROL HORN	20X28.5	2pcs	
		TP. SCREW ELE. CONTROL HORN	Φ2X15	6PCS	
	LK03S	BALL LINK END		4SET	
	ME013	BALL LINK CONNENTOR	Φ2X20	2PCS	
	ME031	WIRE PUSH ROD	Φ2X280	2PCS	
		CARBON PIPE FOR STAB.	Ø12.7X316	1PC	
		CARBON ANTI ROLL PIN OF STAB.	Ø6X80	2PCS	
		STAB. FIX SCREW	Φ3X15	4PCS	
		STAB. FIX SCREW WASHER	Φ3X10	4PCS	
	RO001	ELEVATOR SERVO EXTEND HORN		2PCS	
		BALL LINK SCREW	Φ2x13	4PCS	
		BALL LINK NUTS	M2	4PCS	
D1	PI003	PIN HINGES FOR AILERON	Φ2.5X48	12PCS	
	RO006	AILERON CONTROL HORN	20X28.5	2PCS	
		AILERON CONTROL HORN SCREW	Ø2X15	6PCS	
	LK03S	BALL LINK END		4SET	

Parts list E-EVOLUTION

p.02

Code	NO.	Description	DIM.	QUT'Y	
	ME031	WIRE PUSH ROD	Φ2X280	2PCS	
	ME013	BALL LINK CONNENTOR	Φ2X20	2PCS	
	RO001	AILERON SERVO EXTEND HORN		2PCS	
		SCREW FOR SERVO EXTEND HORN	Ø2X 6	4PCS	
		NUTS	M2	4PCS	
D2		CARBON WING JOIN	Ø25.4X497	1PC	
		FRP. WING LOOK		4PCS	
		WOOD SUPPORT FOR WING LOOK		4PCS	
		WING BOLT	Φ3X15	4PCS	
		WASHER FOR WING BOLT	Φ3X8	4PCS	
		"O" RING FOR WING BOLT	Φ3X6	4PCS	
		BLIND NUTS FOR WING BOLT	M3	4PCS	
		PLY SUPPORT FOR WING TUBE	25.4X35	2PCS	
		FRP. WING TUBE SLEEVE	25.4x130	1PC	
E		CANOPY LOCK WIRE	Ø1.8x155	1PC	
		CANOPY LOCK WIRE END COVER		2PCS	
F		HX.SCREW FOR COWL	Ø3X10	4PCS	
		BLIND NUTS FOR COWL SCREW	M3	4PCS	
		WASHER FOR SCREW FOR COWL	Ø3X8	4PCS	
		"O" RING FOR COWL SCREW		4PCS	
G	GA005	FUEL TANK	448CC	1SET	
		FUEL TANK TIGHTED TAPE	5x350mm	3PCS	
H		BOLTS FOR LANDING GEAR	Φ3x15	2PCS	
		LOCK NUT FOR LANDING GEAR	M3	2PCS	
	A119-LG	CARBON LANDING GEAR		1SET	
	ME006	WHEEL COLLAR	M4	4PCS	
	ME029	SET SCREW WHEEL COLLAR	Ø3x3	4PCS	
	WH001	MAIN WHEELS	Φ4X75	2PCS	
	A119-WP	WHEEL PANTS		1 PAIR	
J 1	KI001	ENGINE MOUNTS	68X105	1SET	
		BLIND NUTS FOR ENGINE MOUNTS	M4	4PCS	
J 2	A119-WS	MOTOR MOUNT		1PC	
		MOTOR MOUNT TEMPLATE		1PC	
		HX.SCREW FOR MOTOR MOUNT	M 3 X 2 0	4PCS	
		WASHER MOTOR MOUNT BOTLS	M 3 X 8	4PCS	
		BATTERY TRAY LOCK THEETH		8PCS	
	A119-BS	BATTERY TRAY		1 SET	
		SCREW FOR BATTERY TRAY	M 3 X 1 5	1PC	
		WASHER FOR BATTERY TRAY SCRE	M 3 X 8	1 个	
		BLIND NUT FOR BATTERY TRAY		1 个	
		PLY SUPPORT FOR BLIND NUT	18x25x3mm	1PC	

