

LION MODEL

EP

ALMOST READY-TO-FLY

R/C EP SCALE MODEL SERIES

BF-109 MESSERSCHMITT EP-400

CONSTRUCTION GUIDE



1545

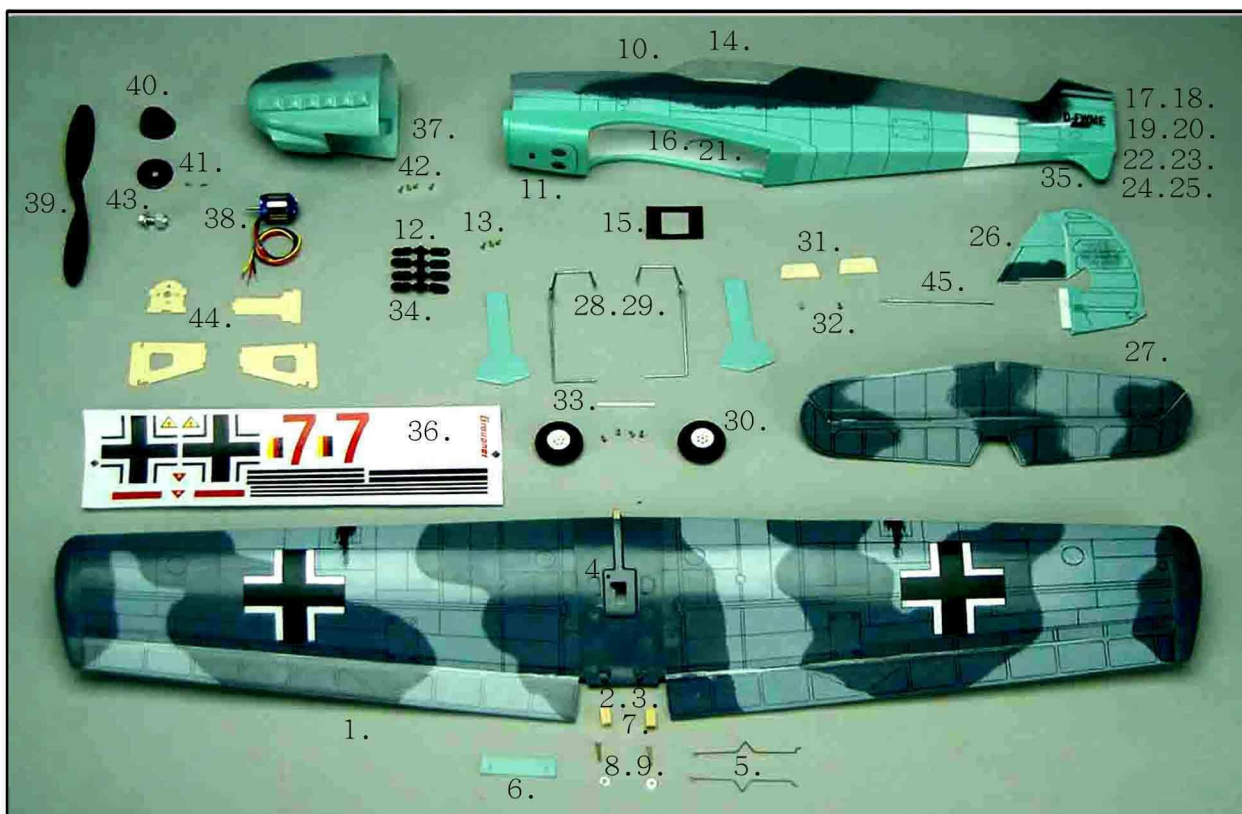
LENGTH.....657mm 25-7/8in
WING SPAN.....900mm 35-1/2in
WING AREA..14.24dm² 227sqin
WEIGHT.....409g 13.6 oz

MOTOR.....400
PROPELLER....6.6x3-7.5x5-9x4.7
BATTERY.7.4v-11.1v 850-1400 mah
RADIO.....4channel 3servo

幼獅模型實業有限公司

LION MODEL CO. LTD.

PARTS LIST



PLEASE CHECK THE PARTS TO BECOME FAMILIAR THEM BEFORE BEGINNING CONSTRUCTION

WING PARTS

KEY#	DESCRIPTION	QTY.
1.	WING SET.....	1
2.	AILERON HORN R / L.....	2
3.	AILERON HORN SWIVELS R / L.....	2
4.	AILERON SERVO MOUNT (PLASTIC).....	1
5.	AILERON PUSH ROD (WIRE).....	2
6.	WING BOLT MOUNT (PLASTIC).....	1
7.	WING BOLT MOUNTING WOOD SET.....	2
8.	WING MOUNTING TOPPING SCREW 3X12.....	2
9.	3X8 WASHER.....	2

FUSELAGE PARTS

10.	FUSELAGE.....	1
11.	BATTERY COVER.....	1
12.	BATTERY COVER STOPPER.....	3
13.	COVER STOPPER TOPPING SCREW 2.3X6.....	3
14.	CANOPY.....	1

LINKAGE PARTS

15.	TAIL SERVO MOUNT(PLASTIC).....	1
16.	ELEVATOR PUSH ROD (1.2mm WIRE).....	1
17.	CLEVIS.....	1
18.	PLASTIC TUBES	1
19.	ELEVATOR PUSH ROD TUBES.....	1
20.	RUDDER PUSH ROD TUBES.....	1
21.	RUDDER PUSH ROD (1.2mm WIRE).....	1
22.	CLEVIS	1
23.	TUBES MOUNT.....	1
24.	ELEVATOR CONTOR HORN.....	1
25.	RUDDER CONTOR HORN	1

KEY#	DESCRIPTION	QTY.
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STABILIZER PARTS

26.	VERTICAL / RUDDER SET	1
27.	HORIZONTAL / ELEVATOR SET.....	1

LANDING GEAR PARTS

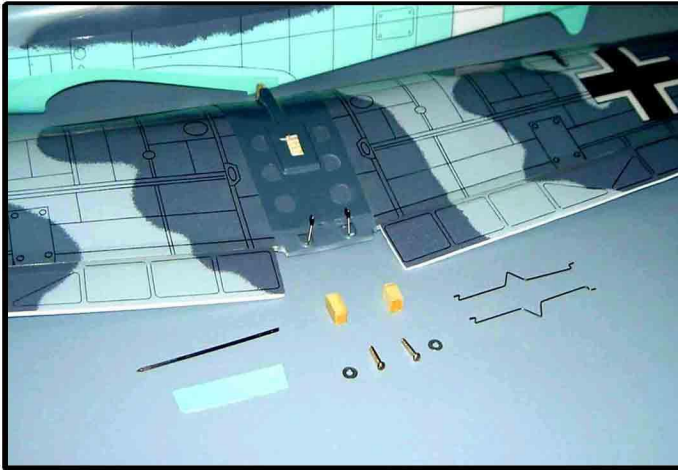
28.	LANDING GEAR WIRE... R.....	1
29.	LANDING GEAR WIRE... L.....	1
30.	FOAM WHEEL 40mm	2
31.	LANDING GEAR WOOD STOPPER.....	2
32.	TAPPING SCREW 2.3X6.....	2
33.	PLASTIC TUBES.....	1
34.	STRAPS	2
35.	TAIL SLED.....	1

POWER MOUNTING PARTS

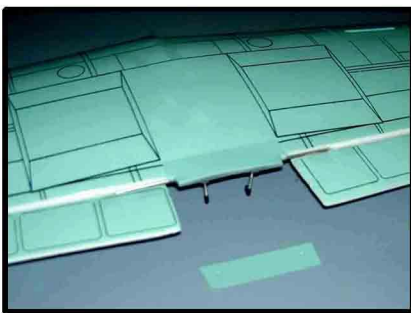
36.	STICKER	1
37.	COWLING.....	1
38.	ELECTRIC MOTOR POWER SYSTEM.....	1
39.	PROPELLER 7.5X5	1
40.	30mm SPINNER SET.....	1
41.	TAPPING SCREW 2.3X6 FOR SPINNER...2	2
42.	TAPPING SCREW 2.3X6 FOR COWLING.....	4
43.	MOTOR-PROPELLER ADAPTOR.....	1
44.	MOTOR MOUNT	1
45.	DRILL (1.7mm WIRE).....	1
46.	CONSTRUTIO GUIDE BOOK.....	1

***MOTOR/PROPELLER/ADAPTOR/
SPEED CONTROLLER/BATTERY/SERVO
CHARGER/RADIO***NOT INCLUDE.

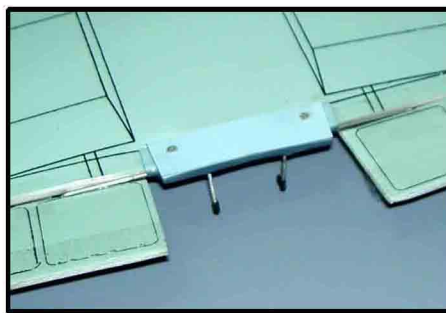
WING ASSEMBLY AND FIX TO FUSELAGE



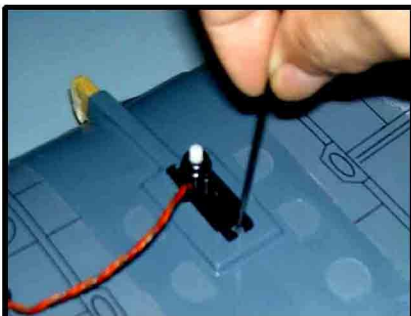
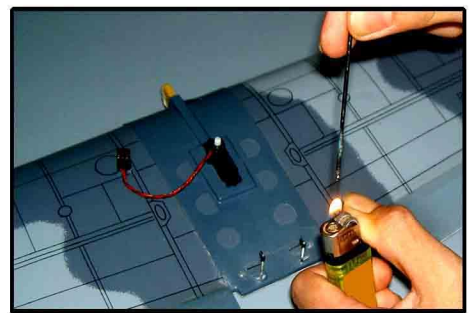
- 1.WING SET.....1
- 2.AILERON HORN R / L.....2
- 3.AILERON HORN SWIVELS R / L.....2
- 4.AILERON SERVO MOUNT (PLASTIC).....1
- 5.AILERON PUSH ROD (WIRE)2
- 6.WING BOLT MOUNT (PLASTIC).....1
- 7.WING BOLT MOUNTING WOOD SET.....2
- 8.WING MOUNTING TOPPING SCREW 3X12.....2
- 9. 3X8 WASHER.....2
- 49.DRILL (1.7mm WIRE).....1



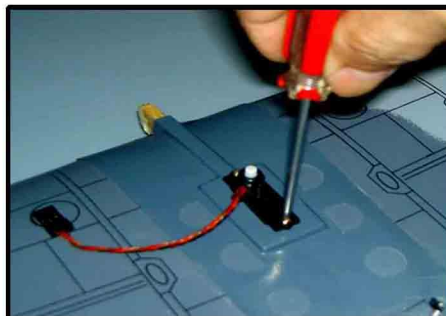
1. FIX WING BOLT MOUNT PLASTIC TO WING TRAILING EDGE.



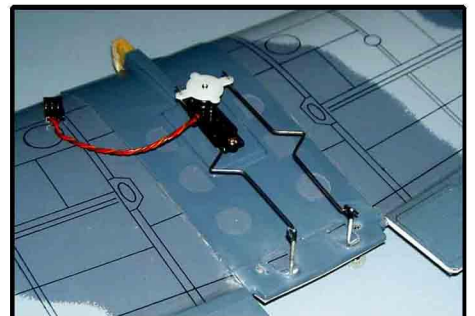
2.INSTALL SERVO



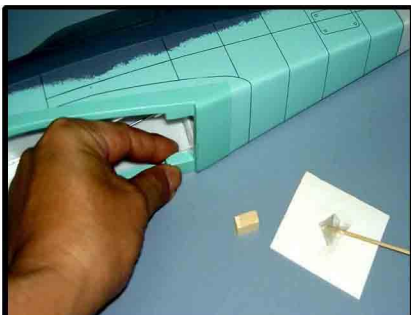
3.PREHEAT A1.7mm SHARP-END WIRE TO DRILL HOLES FOR THE SERVO MOUNT



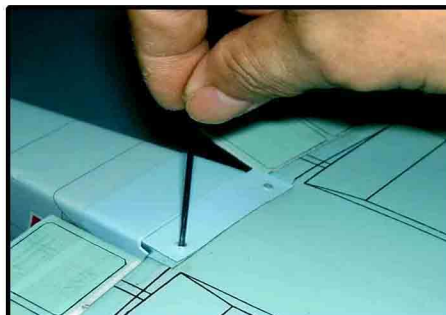
4.USE TWO SCREW FIX SERVO.



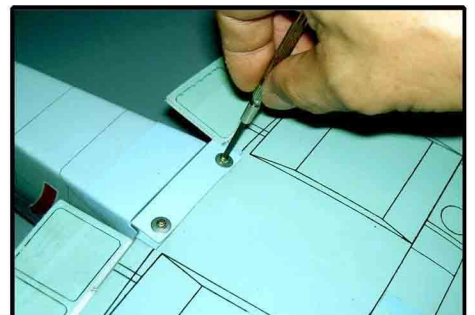
5.INSTALL SERVO HORN AND PUSH ROD WIRE TO AILERON HORN.



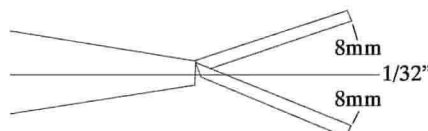
6.JOINT THE WING BOLT MOUNTING Balsa WITH EPOXY GLUE.



7.FIX WING TO THE FUSELAGE. DRILL TWO 3mm HOLES FOR THE FIX WING TO FUSELAGE.

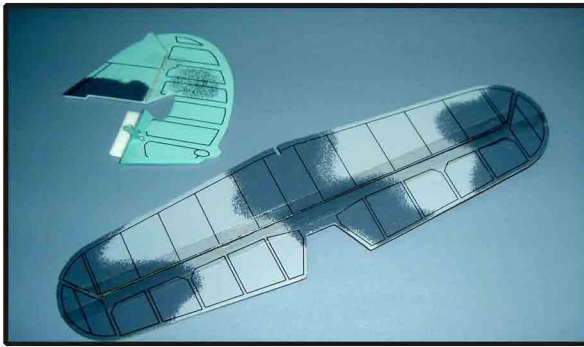


8.USE TWO TOPPING SCREW 3X12mm AND TWO 3X8 WASHER INSTALL WING TO THE FUSELANGE.

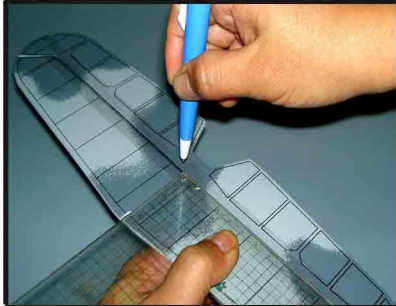


AILERON STROKE

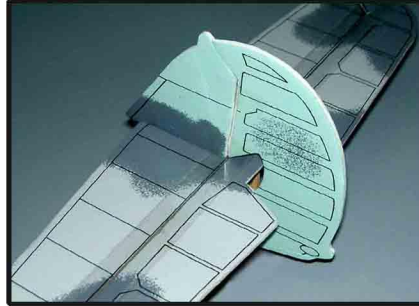
INSTALL THE TAIL COMPONENTS



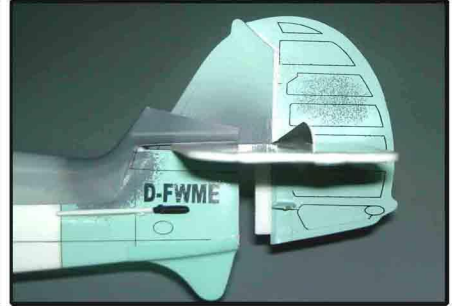
10.FUSELAGE.....	1
15.TAIL SERVO MOUNT(PLASTIC).....	1
16.ELEVATOR PUSH ROD (1.2mm WIRE).....	1
17.CLEVIS.....	1
18.PLASTIC TUBES	2
19.ELEVATOR PUSH ROD TUBES.....	1
20.RUDDER PUSH ROD TUBES.....	1
21.RUDDER PUSH ROD (1.2mm WIRE).....	1
22.CLEVIS	1
23.TUBES MOUNT.....	1
24.ELEVATOR CONTOR HORN.....	1
25.RUDDER CONTOR HORN	1
26. VERTICAL / RUDDER SET	1
27.HORIZONTAL / ELEVATOR SET.....	1
28. ELEVATOR FAIRING.....	1



1.DRAW A RIGHT ANGLE BY USE A SET SQUARE TO MAKE A SIGN ON THE HORIZONTAL STAB.



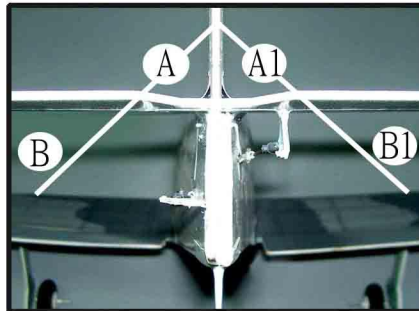
2.FIX THE VERTICAL FIN BY USE THE EPOXY GLUE 30mm ON THE HORIZONTAL STAB. ***MAKE THE VERTICAL FIN VERTICAL ON THE HORIZONTAL STAB=90°



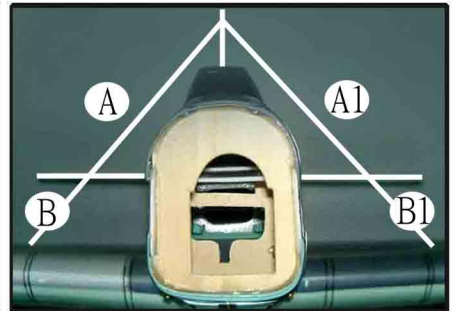
3.APPLY THE EPOXY GLUE ON THE PROPER PART OF THE TAIL OF THE FUSELAGE EDGE. THEN INSTALL AND INSERT TAIL SET.



4.USING THICK CA.APPLY A BEAD OF GLUE TO THE SLIDE FAIRING INTO PLACE.HOLDING FIRMLY UNTIL THE GLUE DRIES .

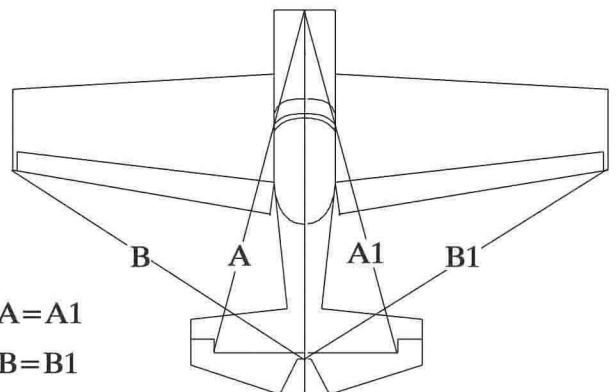


A=A1 B=B1.



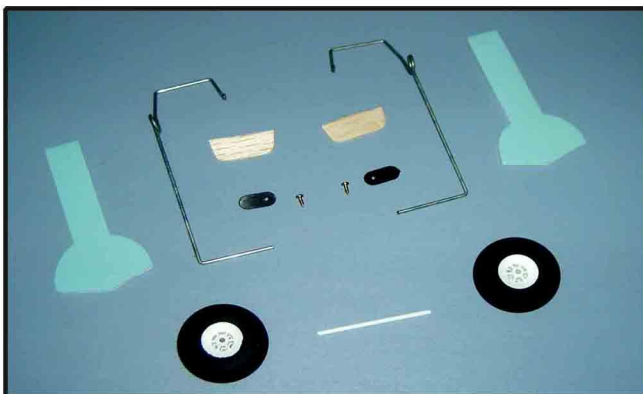
A=A1 B=B1.

INSTALL THE LANDING COMPONENTS

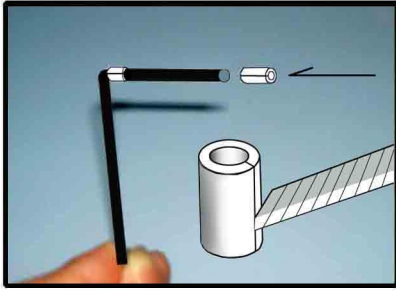


A=A1

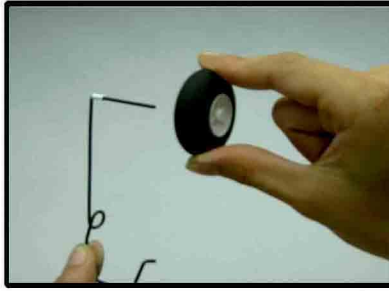
B=B1



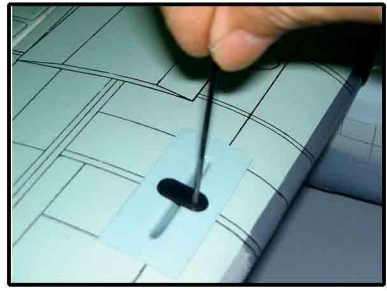
28.LANDING GEAR WIRE...R.....	1
29.LANDING GEAR WIRE... L.....	1
30. FOAM WHEEL 40mm	2
31.LANDING GEAR WOOD STOPPER....	2
32.TAPPING SCREW 2.3X6.....	2
33.PLASTIC TUBES.....	1
34.STRAPS	2
49.DRILL (1.7mm WIRE).....	1



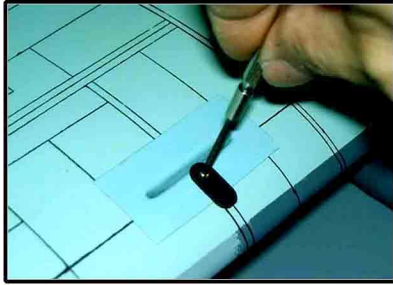
1. CUT TWO 5mm LENGTH PLASTIC TUBES FOR WHEEL STOPPER



2. INSTALL WHEEL AND INSTALL WHEEL STOPPER TO LANDING GEAR .



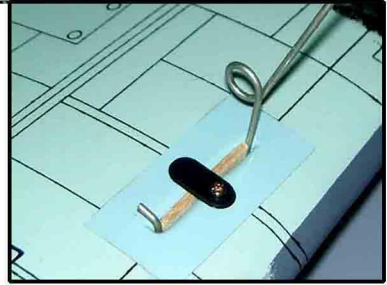
3. PREHEAT A 1.7mm SHARP-END WIRE TO DRILL HOLES IN THE STRAPS



4. FIX LANDING GEAR STOPPER .



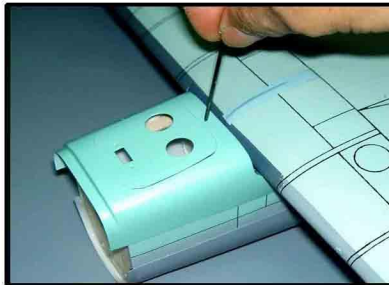
5.INSERT LANDING GEAR SET AND WOOD STOPPER TO WING.



6. FIX LANDING GEAR



7. USE TAPE TO FIX LANDING GEAR FAIRING TO LANDING GEAR WIRE.

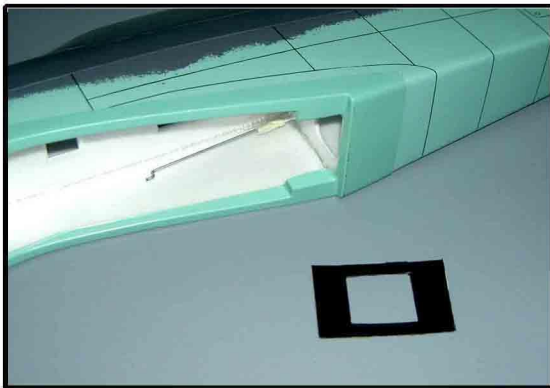


8. DRILLING HOLES. USE TAPPING SCREW

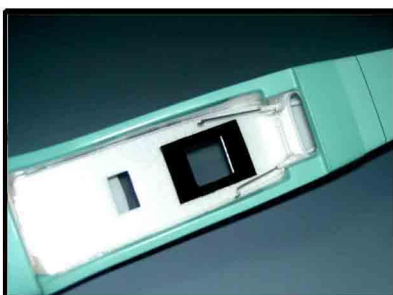


9. FIX BATTERY COVE STOPPER.

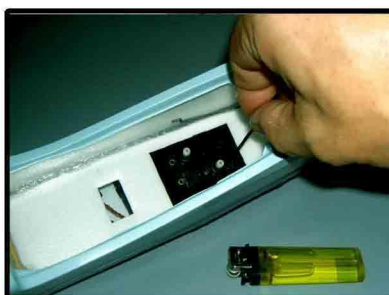
INSTALL THE RADIO LINKAGE



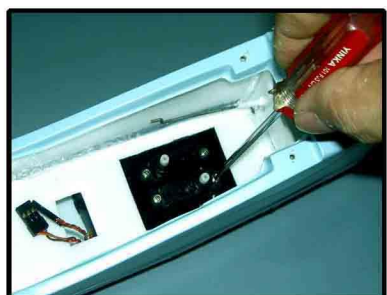
- 16. TAIL SERVO MOUNT (PLASTIC).....1
- 17. ELEVATOR PUSH ROD (1.2mm WIRE)....1
- 18. CLEVIS.....1
- 19. TAPPING SCREW 2.3 X 6.....1
- 20. ELEVATOR PUSH ROD TUBES.....1
- 21. RUDDER PUSH ROD TUBES.....1
- 22. RUDDER PUSH ROD (1.2mm WIRE).....1
- 23. CLEVIS1
- 24. TUBES MOUNT.....1
- 25. ELEVATOR CONTROL HORN.....1
- 26. RUDDER CONTROL HORN1



1. FIX TAIL SERVO MOUNT TO THE FUSELAGE INSIDE.



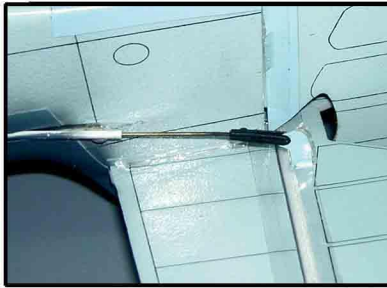
2. PREHEAT A 1.7mm SHARP-END WIRE TO DRILL HOLES IN SERVO MOUNT



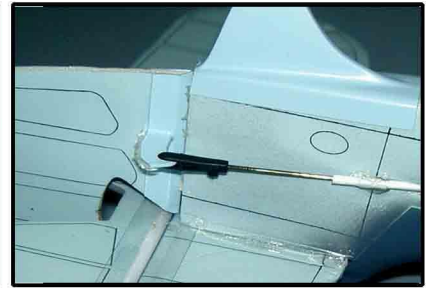
3. INSTALL ELEVATOR SERVO AND RUDDER SERVO.



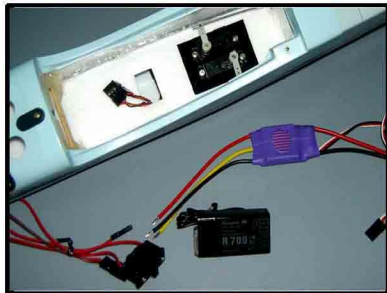
4. INSTALL THE RUDDER PUSH ROD TO RUDDER SERVO HORN. INSTALL THE ELEVATOR PUSH ROD TO ELEVATOR SERVO HORN.



5. FIX CLEVIS TO ELEVATOR CONTROL HORN AND TO JOIN THE CLEVIS.



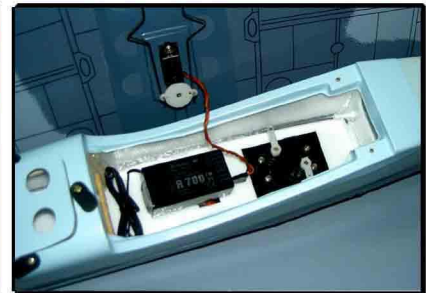
6. FIX CLEVIS TO RUDDER CONTROL HORN AND TO JOIN THE CLEVIS.



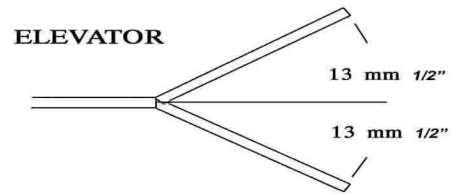
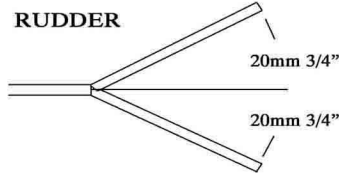
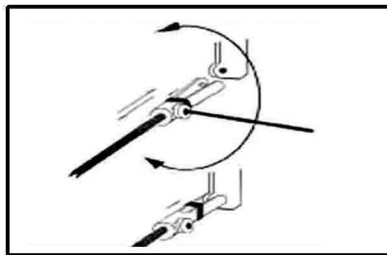
7. INSTALL THE SWITCH TO SWITCH MOUNT.



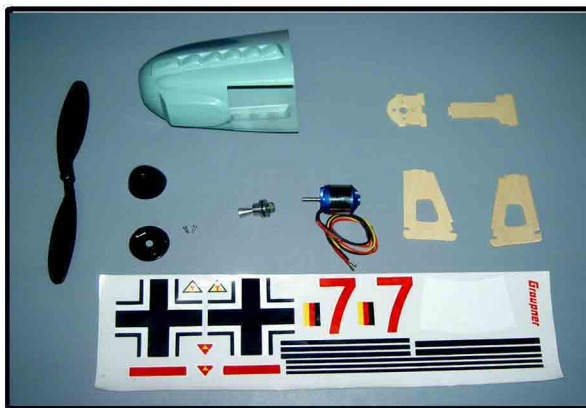
8. INSTALL THE BATTERY TO THE BATTERY BOX INSIDE.



9. LINKAGE WHOLE SERVO PLUG LINES TO RECEIVE. CHECK AND TEST THROW OF EVERY SERVO HORN.



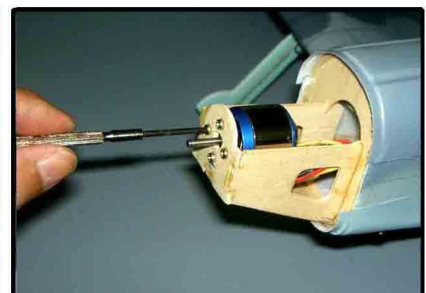
INSTALL THE POWER MOUNTING PARTS



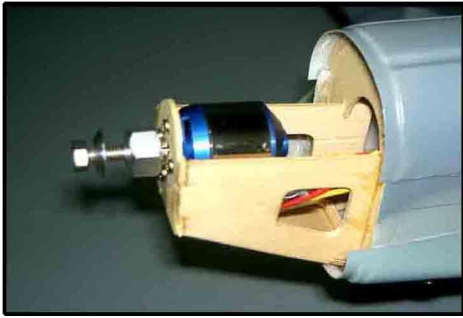
- 36. STICKER1
- 37. COWLING1
- 38. ELECTRIC MOTOR POWER SYSTEM.1
- 39. PROPELLER 7.5X51
- 40. 30mm SPINNER SET.....1
- 41. TAPPING SCREW 2.3X6 FOR SPINNER...2
- 42. TAPPING SCREW 2.3X6 FOR COWLING.4
- 43. MOTOR-PROPELLER ADAPTOR.....1
- 44. MOTOR MOUNT5
- 45. DRILL (1.7mm WIRE).....1



1. FIX MOTOR MOUNT PLYWOOD INTO FIREWALL WITH CA GLUE.



2. FIX MOTOR POWER SYSTEM.



3. LINK ELECTRONIC SPEED CONTROL TO MOTOR SYSTEM.



4. FIX COWLING TO FUSELAGE POSITION.



5. CUT RIGHT AND LEFT 2 HOLES AT SPINNER AS PREMARKED.



6. BIND COVER AND BOTTOM OF SPINNER. DRILL RIGHT AND LEFT SIDE FOR 2.3X6 TAPPING SCREW.



7. TRY TO PUT PROPELLER TO SPINNER. CHECK IF FIT AND TRIM.



8. FIX SPINNER MOUNT TO MOTOR POSITION.



9. FIX SPINNER AND PROPELLER TO MOTOR POSITION.



10. FIX SPINNER WITH 2.3X6 TAPPING SCREW.



11. CHECK THE FIT OF SPINNER AND COWLING. LEAVE ABOUT 1.5mm GAP TO AVOID INTERFERENCE. DRILL 4 HOLES ON COWLING AND PLASTIC FUSELAGE

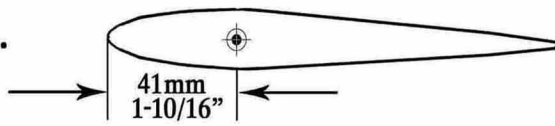


12. POSITION FOR 2.3X6 TAPPING SCREW TO FIX COWLING.

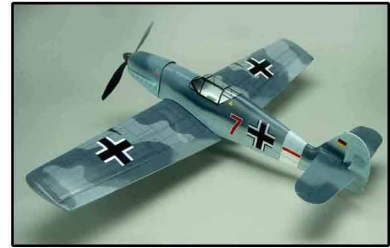
13. DRILLING HOLES. USE TAPPING SCREW 2. 3X6. FIX BATTERY COVE STOPPER. INSTALL THE BATTERY



C.G.



THE BALANCE POINT (C.G.) IS LOCATED 41mm 1-10/16" BACK FROM THE LEADING EDGE OF THE WING.



NEW!



CHRISTEN EAGLE #1548



SU-26 #1541



EXTRA-300 #1546



PITTS S-2A #1549



CHIPMUNK #1543



P-51 DAGO RED #1551



P-51 VOODOO #1547



CAP-232 XS #1544



SU-31 #1542



CESSNA-182 #1538



CHEROKEE #1537



PITTS S-1A #1550



CAP-232 MAX #1539



SUPER DECATHLON #1533



SPACE WALKER #1536