

POWER FLY**LEO 451 & G4M**

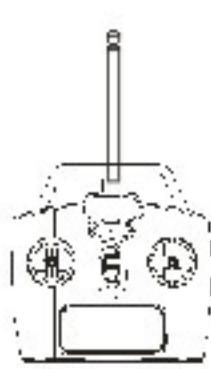
MESSERSCHMITT EPP MATERIAL

**WARNING AND PRECAUTION**

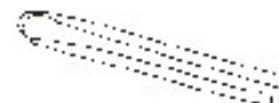
- Please carefully read and follow this operation instruction. Please pay special attention to the safety precaution of the operation instruction so as to avoid injury and loss. Safety is the first.
- Please keep screw propeller (even not rotating) away from you. Any accidental rotation of screw propeller may cause injury. Be careful to prevent your hair from being caught up in screw propeller. Accident usually happens at windy weather.
- Please do not fly the plane at blustery weather. otherwise the plane may be out of control and crash, thus causing injury and loss. Please refer to step 6 for detail. Please do not fly the plane near by crowd, vehicle, highway, railway, building, airport, power line, lake, river, and forest or on hard land. please stop any trial of catching the plane. Otherwise, serious injury may be caused.
- Children under 8 years should play the plane under the guidance of adult.
- Charging of battery: only one charger is equipped. Please take good care of battery being charged so as to prevent over charging of battery. Please put the charger on heat-resistant surface during charging. Please do not place battery which is being charged on blanket. The charging time about 4-5 hours if equipped charger is used. Please do not charge battery more than 4 hours. Please stop charging when the temperature of battery is over 45°C. Please do not charge the battery to more than 45°C in any case.
- Please do not cut off battery, charger or wire of the plane. Otherwise, short circuit and fire accident may take place.
- When playing the plane, please switch on transmitter first, and then connect power battery. After playing, please disconnect power battery, and then switch off transmitter.
- Please do not play your plane at a place where the same frequency of transmitter exists. Please refer to backside of transmitter and body of plane for frequency.

FCC Statement

1. This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CONTENT

Transmitter



Flag



Propeller



6V NI-MH pack



Rear undercarriage



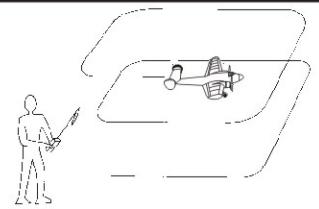
Main Body



Nose undercarriage

STEP 8: FLYING

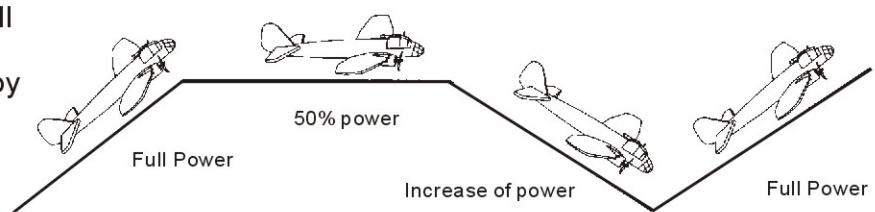
The plane flies higher and higher. Please maintain the maximum power. Please push right control lever to control the plane. Please do not change direction when the plane is less than 10 meter high in the air. The control distance is 300 meter. Please do not let the plane fly too faraway. Please make sure the plane fly windward, you can make the plane turn over by using the right control lever.



Important note: please do not push the right control lever to maximum for more than 2 to 3 seconds. Otherwise, the plane may crash. When the plane is in screw, please rapidly quit hold of left and right control lever. The plane will automatically withdraw from screw.

STEP 9: POWER REGULATION

- Maximum ascent of 100 meters by full power
- Horizontal flying can be maintained by pushing control lever to 50%
- Decrease of pushing lever will cause lower flying attitude
- Increase of power will cause higher flying attitude

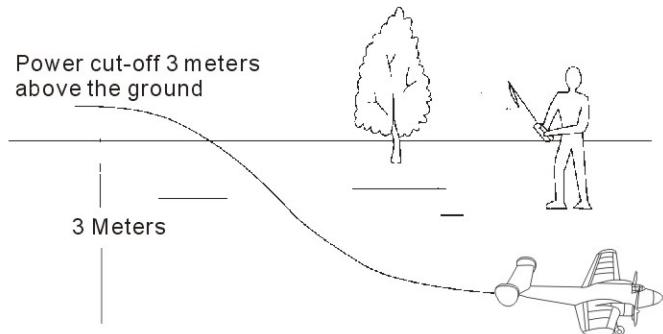


Important note: only when the motor is switched off or at lower speed can the plane land on.

STEP 10: LANDING OF PLANE

- When plane has no more power to ascend, that means
- Power of battery is used up (about 15 minute including gliding normally). Please make sure the plane enter into landing point by flying windward.
- When the plane is 3 meters above the ground, please quit hold of control lever and switch off motor. Your plane will land on ground safe and sound.

Hint experience: if you have enough experience, you may achieve fixed-point landing by controlling the power of motor.



Warning: please do not try to catch the plane so as to avoid injury. Please take out battery immediately after landing. Please make sure motor does not rotate so as to avoid injury.

STEP 11: REPARATION

If the collision is not serious, please use tape to cover the damaged part. If the collision is serious and irreparable, please replace damaged part with new one.

TROUBLE-SHOOTING

Trouble	Root cause	Solution
The plane can not be controlled.	Insufficient power or improper installation of battery or transmitter.	Check installation of battery or replace old battery with new one.
	Improper connection of power battery.	Correctly connect power battery until a sound of crack is heard.
	Power battery not charged.	Full charge battery.
	The power switch is off.	Do not forget to turn on the switch on airframe.
	Collision, damaged electric power inside plane body.	Purchase new electronic board for replacing.
Difficult control.	Plane wing or tail wing damaged.	Reparation or replace
Big ascent angle.	Frequent gusting wind or strong wing.	Big ascent angle.
The plane can not ascend.	Insufficient charging of battery.	Fully charge the battery before playing.

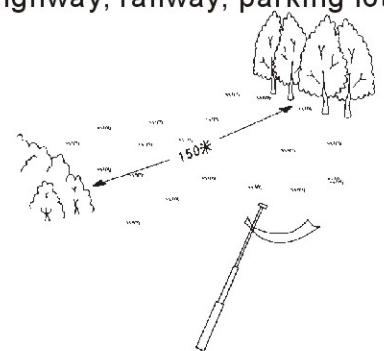
STEP 5: SELECTION OF FIELD FOR PLAYING AND WEATHER

The best field should be a smooth, large field and no obstructions should be within 150m.

Note: please DO NOT fly the plane near by crowd, building, power line, highway, railway, parking lot, tree, sidewalk, lake, river or airport.

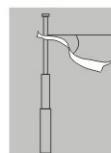
Key to success:

1. A good weather will assure more success to flying.
2. According to our test, flying in wind over force 4 is very difficult.
3. the suggested power force is force 1-2.
4. Please band the top of antenna of transmitter with read silk.
5. Please hold the transmitter to make sure its antenna is vertical to ground surface so as to easily observe the states of the silk in wind to affirm the direction.



NOTICE:

1. Make sure no other people operate at the same frequency.
2. Choose the wide field and make sure there is not building, Trees and other people around.
3. Notice the environment nearby before flying.
4. Keep the airplanewithin your sight during flying.
5. Children can't operate alone should be supervised by adult.



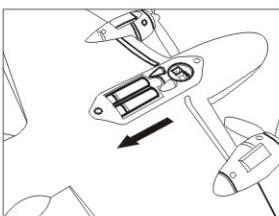
30 degrees

If the inclination between silk and antenna is less than 30 degrees, that means the wind is too strong for flying.

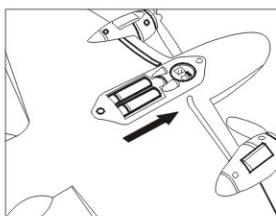
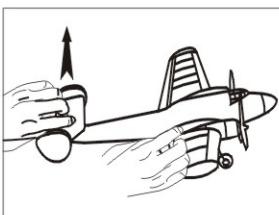


- Please band the top of antenna of transmitter with read silk.
- Please hold the transmitter to make sure its antenna is vertical to ground surface so as to easily observe the states of the silk in wind to affirm the direction.

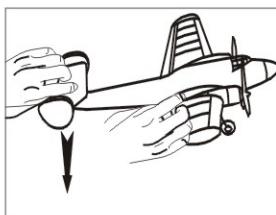
STEP 6: ADJUSTMENT AIRPLANE'S THE CENTER OF GRAVITY



When airplane head toward down and very difficult rising , please move battery of airplane body backward, detail please refer to illustration. While this action no effect, you can move up the plane back body to assure the plane fly normally.

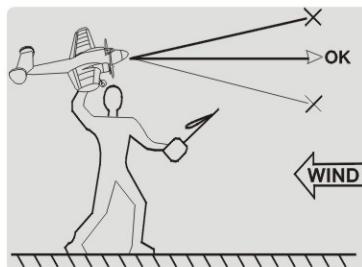


When airplane head toward up and very difficult to speed up, please move battery of airplane body forward, detail please refer to illustration. While this action no effect, you can move down the plane back body to assure the plane fly normally



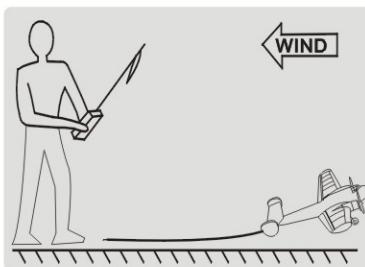
STEP 7: HAND THROWING OR TAKING OFF FROM LAND

Import note: before the plane takes off, please observe the direction of wind by checking the direction of red silk on transmitter.



Take-off of plane by hand throwing junior beginner should follow the guidance of adult. Please make sure battery is newly charged. Hold transmitter by hand

and turn on the switch. Then push left control lever to the top. Run forward for several steps and throw out the plane. Please make sure the left and right plane wings are on the same level. Please throw out the plane horizontally at the speed of 20 km per hour.



Take-off of plane from land You need to stand behind the plane with the head of the plane windward. On smooth and even road surface like concrete or pitch, please push left control lever to the top. The

plane will run take-off at a direct-line track. The plane will take off after running for 10 meters or so if the battery is fully charged.

Caution: when taking off plane from land, please make sure the nose and rear undercarriage and the airframe are parallel.