

USER GUIDE P40 CURTISS

V. 05/2018

3D PRINTED RC MODEL



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**HOW FAR
DO YOUR
DREAMS REACH?**



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1. PRINT AT YOUR HOME

The d3ling.com models have been redesigned and modelled specifically for being printed in the most popular 3d printers, you will not have any problem, since we facilitate all the files and common configurations so that you get to fly our models without any other help rather than our material.

2. TESTED STRUCTURES

We have performed complex structural tests, so that your plane can resist the heaviest conditions, if you can fly an RC airplane you will be able to fly any of our models.

3. EASY ASSEMBLY

With our complete PDF guide and the support of our video tutorials, you will not find any problem that obstacles you from flying your model. Also we offer support from our website, social networks and blog, so you will always get advice to achieve your goals, install your radio and manage our models through the sky of your flying field.

HISTORIA

The Curtiss P-40 Warhawk, is an American fighter of the Second World War, culmination of the famous family of Curtiss aircraft.

In the moments of the unexpected Japanese attack on Pearl Harbor, it was the most important American fighter from the numerical point of view.

He served on the frontline throughout the Second World War.

The British Commonwealth and the Soviet Air Force used the name Tomahawk for their equivalent models to the P-40B and P-40C, and the Kittyhawk for the equivalents to the P-40D and all the later versions..

Length : 9,66 m
fast speed: 580 km/h
Wingspan: 11,38 m
Height: 3,76m
Empty weigh: 2880kg

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4. CONTENTS

We export our models for you in the most standard version, so you don't find any problem at the time of using them with your popular software.

We **recommend Simplify3D**, since the configuration will be much easier, or other tools like CURA.

Our STLs may cause problem with Slic3r software, so this one is not recommended..

4.2. GCODES

We offer you the GCODE FILES, so that you only have to configure the desired temperature and start printing, without any problem, for printers with 195x195x185 size.

4.4. DESIGN PROPOSALS

As everybody has its own taste, we offer you a range of scale templates, so that you print the design that you prefer or even a blank one so you can design your own model.

Also, if you are skilled with the paint, you can decorate your model using spray or aerograph, to create a model as similar as possible for this beautiful airplane.

See page 06

4.1. FACTORY SIMPLIFY3D

In addition to the STL files, if you can use the Simplify3D software, we facilitate the Factory type files, so that you can load and configure the printing as you wish, forgetting about almost all parameters.

4.3. VIDEOTUTORIALS

In addition to the STL files if you have the Simplify3D software, we provide Factory files, so you can load and configure the print as you wish.

See VIDEOTUTORIAL 0

PRINT CONFIGURATION



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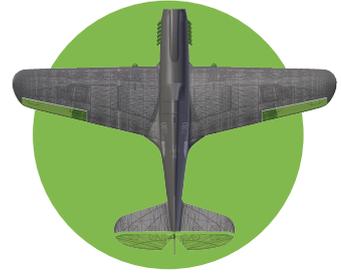
4.4.DESIGN PROPOSALS



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5. STEPS TO PRINT A D3LING MODEL

5.1. Select the model that you wish from our website www.d3ling.com

5.2. Register and download all the material in a handy compressed file.

5.3. Prepare your files.

A. If your printer has got a standard size 195x195x185, load the files in your SD and adjust the temperature which you get the best results, we recommend for materials like PLA a temperatura of 190°C, but you have to adjust it according to your preferences.

B. If you have Simplify3D and you prefer this option, load your Factory and prepare a custom printing. You will get outstanding results.

C. If on the contrary you haven't Simplify3D or you don't like this option, you can load the STLs files in your reference software in the usual way.

5.4. Print your model.

5.5. Don't miss and pay attention to each of the videotutorials that we have in YOUTUBE, we show tricks and recommendations that will make the assembly

**HAVE YOU EVER
DREAMT ABOUT
FLYING?**



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6. MODEL ASSEMBLY

TECHNICAL SPECS

WINGSPAN :
1100 mm

PRINTED MODEL WEIGHT:
900 gr

LENGTH:
790 mm

FLIGHT WEIGHT:
1100gr - 1200gr

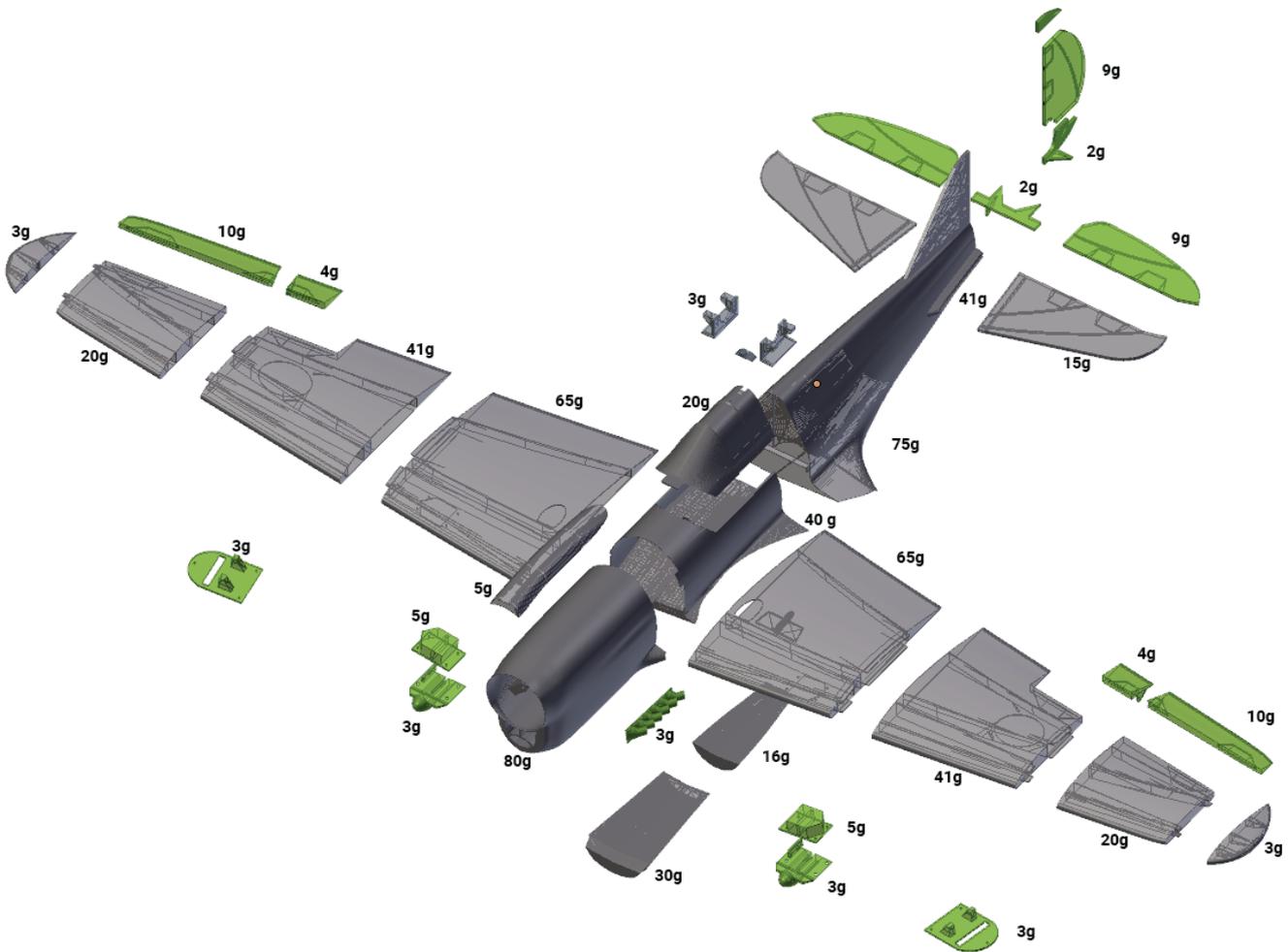
ELECTRONICS PROPOSALS

MAIN ENGINE:
D3530 1100kv 14 Brushless

PROP:
9x6

ESC:
HobbyKing 30A ESC 3A

BATTERY:
3S 11.1V 2200mAh



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6.1. FUSELAGE

The first step to join the fuselage, will be to find the part 1 of the fuselage and place tape "Velcro" to later be able to fix the battery as you can see in the video tutorial 1.

This is done so because accessing to this part afterwards is remarkably harder.

After, we attach each part with cyanoacrylate based glue, joining them as is shown in the picture below.

Bear in mind that mobile parts must not be attached (they are displayed in green in the picture), these will be joined later with hinges (paper hinges, nylon hinges or duct tape), such as the depth aileron and the steering rudder, or will be assembled later (Fuse 0 and bottom part).

We recommend to use cyanoacrylate activator for a faster and safer assembly

See VIDEOTUTORIAL 1

FUSELAGE ASSEMBLY 

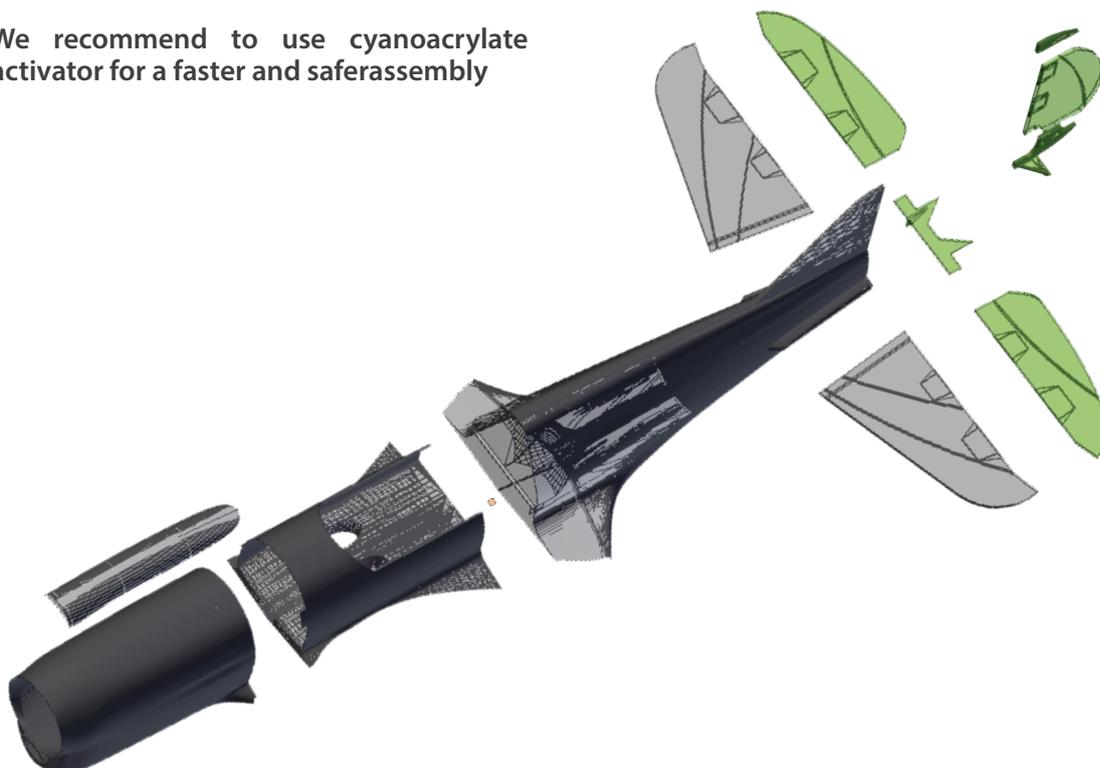
Necessary items:

Cyanoacrylate based glue

Cyanoacrylate activator

2 9g servos

"hook and loop" tape



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6.2. WINGS

In the first place, we will attach all the pieces to each other as shown in the picture, bearing in mind that the mobile parts (displayed in color green in the picture) will be joined by hinges or screws.

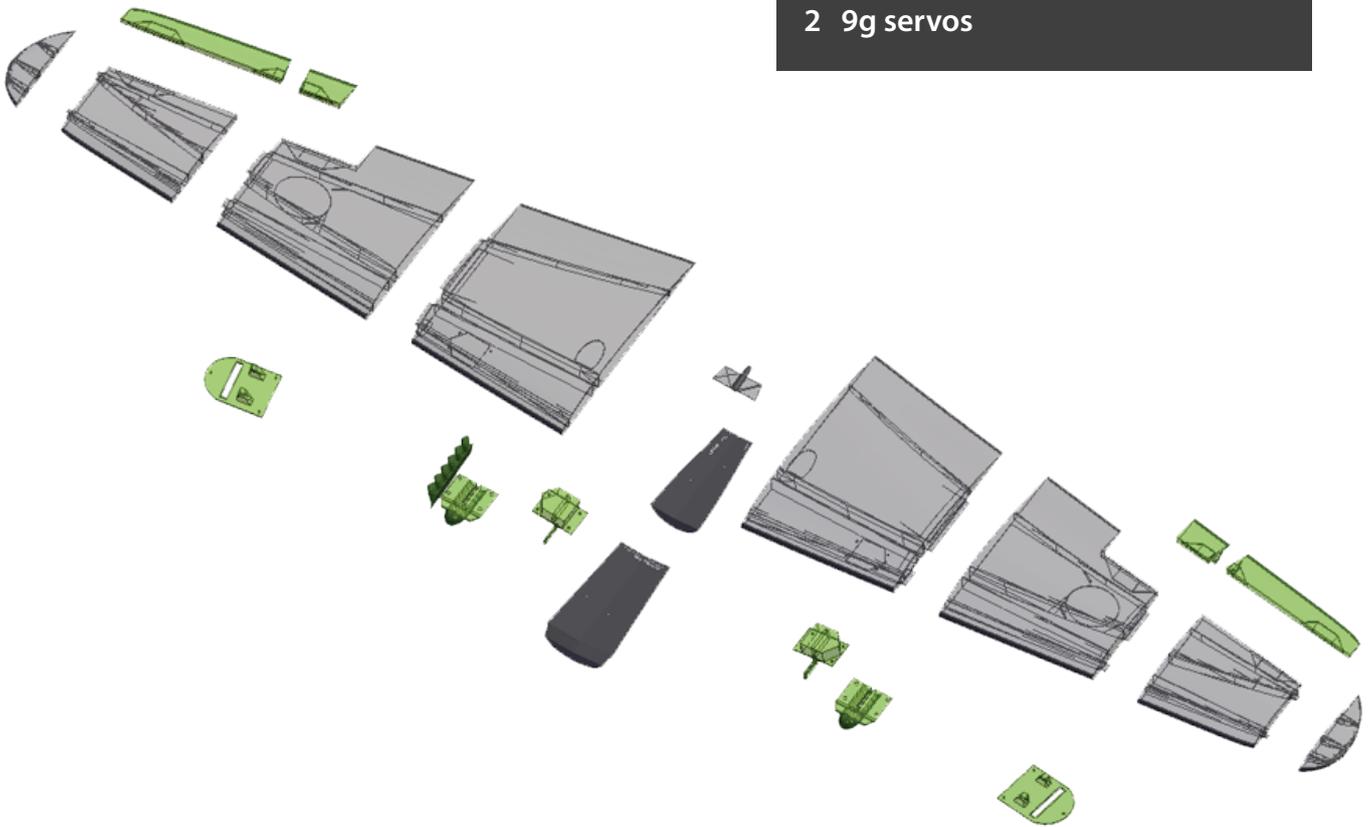
See VIDEOTUTORIAL 2

WING ASSEMBLY



Necessary items:

- Cyanoacrylate based glue
- Cyanoacrylate activator
- Hinge paper or similar
- 2 9g servos



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6.3. AILERONS

In the next part we already have the body of the model and the wings completely united and prepared to place the ailerons that we still have to place.

We will join all the parts of the ailerons to each other as you can see in the video that tutorial number 3.

And later we will insert hinge paper in each of the slots of both the ailerons and the fuselage

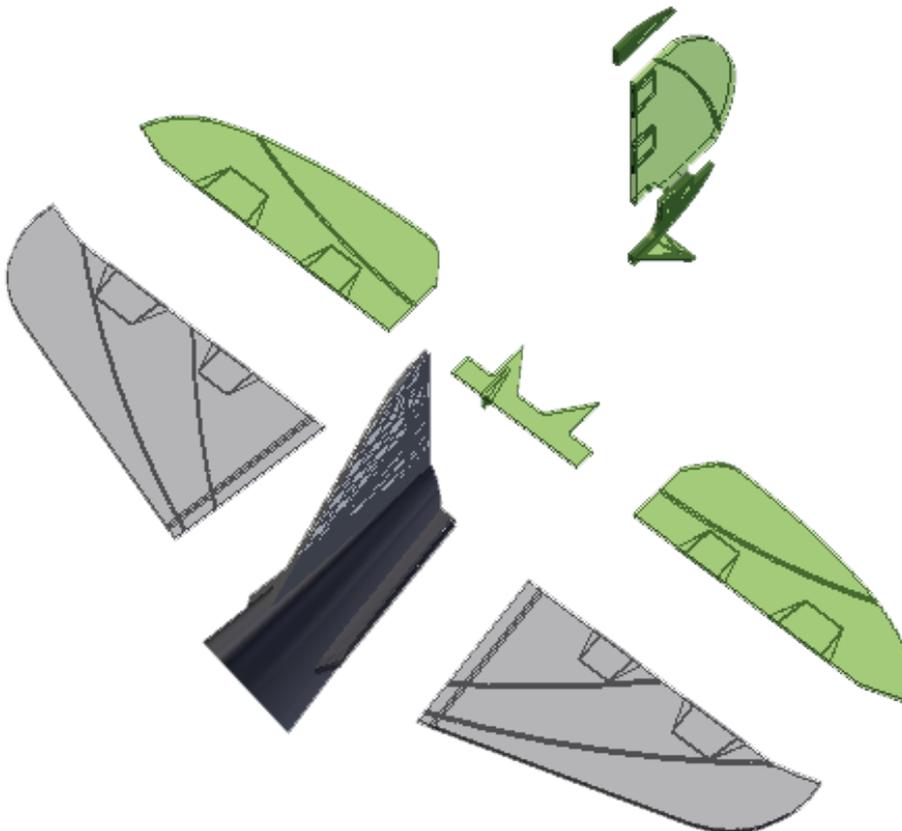
See VIDEOTUTORIAL 3

AILERONS ASSEMBLY



Necessary items:

- Cyanoacrylate based glue
- Cyanoacrylate activator
- Hinge paper or similar



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6.4. LANDING AND SERVO

In this section we will assemble the landing gear, preparing the wheel wires with 3mm diameter steel rod.

We will bend the wire as shown in the video tutorial 4.

Later with screws we will fix both the supports for the landing gear and the supports of the servos, until everything is very compact.

think that the landing gear will absorb the blow in case of a hard landing.

See VIDEOTUTORIAL 4

LANDING AND SERVO



Necessary items:

- 16 Screws
- 2 Servo extension wire



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6.5. MOTOR AND PUSH RODS

At this point the most important thing will be to correctly fix the support of our engine to the nose of the fuselage, if it is the recommended or compatible engine, the support must fit correctly and we join it with 4 M3 screws.

Next we will pass the control wires and bend them, to join the servos and their corresponding ailerons as you can see in the video tutorial 5.

See VIDEOTUTORIAL 5

MOTOR AND PUSH RODS

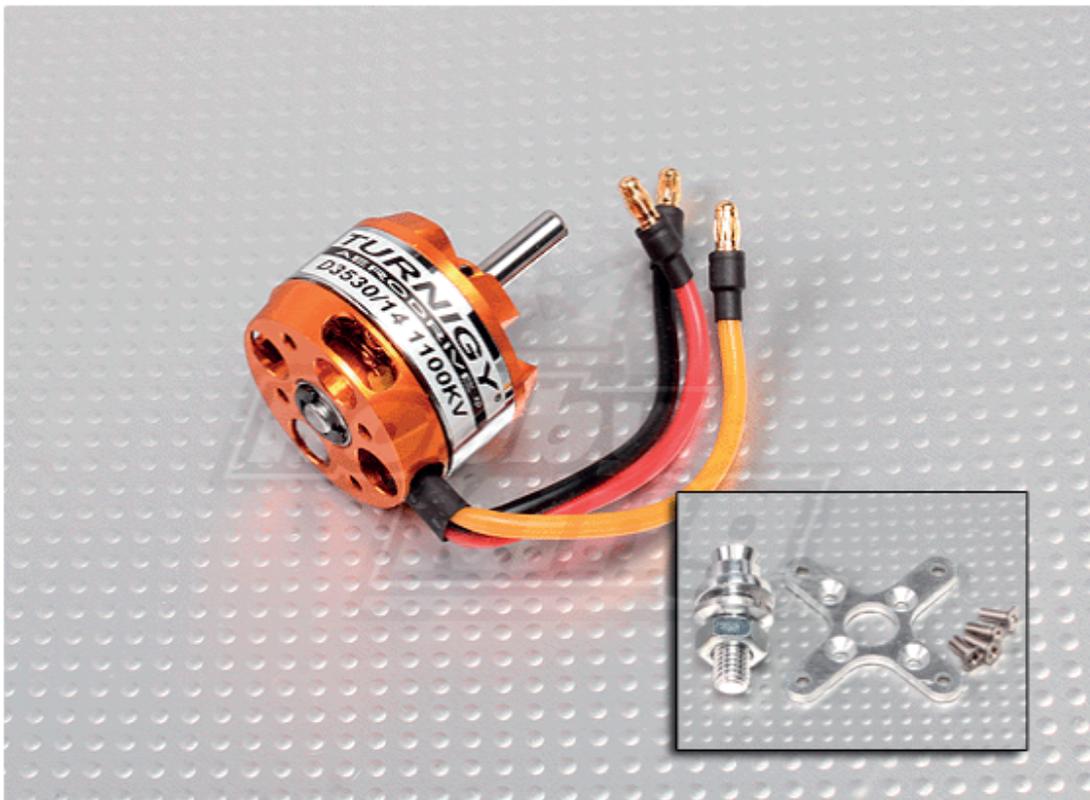


Necessary items:

4 Screws M3

Push rods

Recommended motor



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6.6. ELECTRÓNICA, CG Y CONFIGURACION RECOMENDADA

The center of gravity should be measured where the piece Ala1 and Ala 2 from the front, 55mm, joins, for the first flight it is recommended that it be better a little ahead.

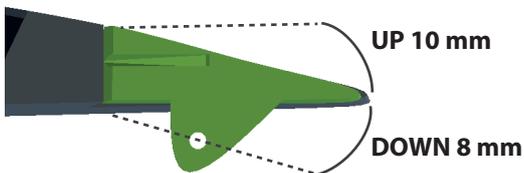
Recommended Items:

Motor D3530 1100kw 14

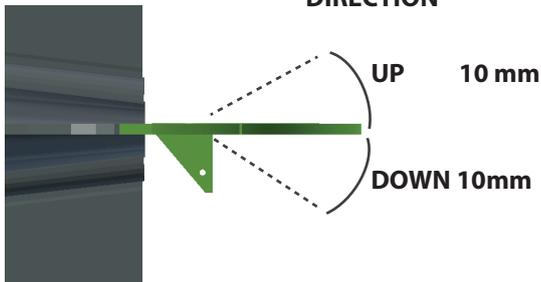
ESC 30A - 40A

Battery 2200mAh 3s 11.1v

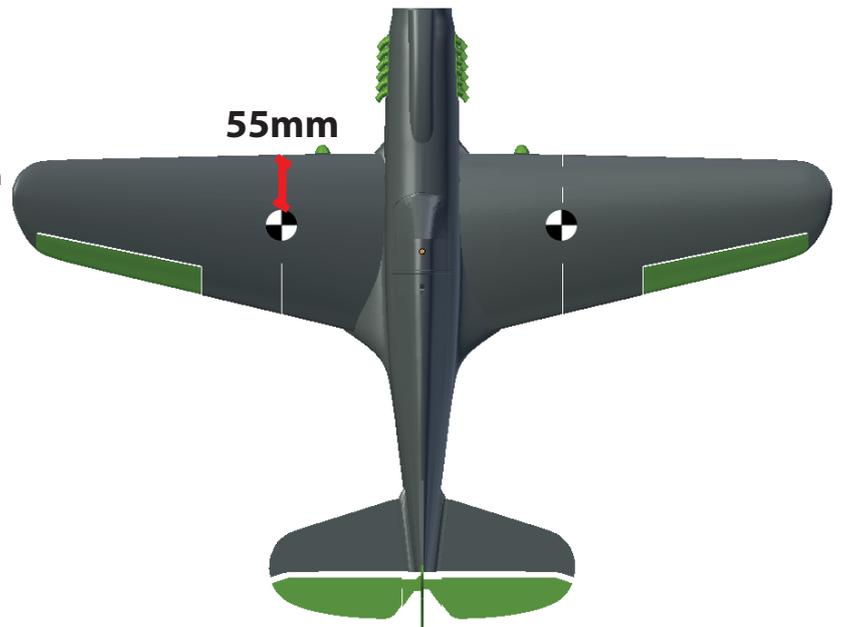
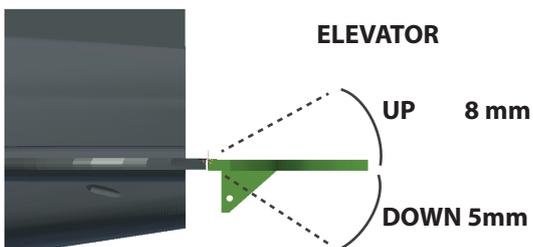
AILERONS



DIRECTION



ELEVATOR



MOTOR



ESC



BATTERY



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6.7 FLYING

At this point you should have your beautiful polikarpov model perfectly assembled and with all the electronics properly connected. You just need to review that the GC, after the battery has been installed, is perfectly situated in the position indicated in the step 6.6 of this guide, and if you want, you can decorate it with the printable template that you will receive in your email with several proposals for decoration, or use your creativity and paint it as you wish. Once the model is finished, charge batteries and go to the flying field. See in our videotutorial the takeoff and landing.

See VIDEOTUTORIAL

FLYING



Necessary items:

Finished P40 Curtiss

Charged batteries!!



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7. TO CONSIDER

Before flying the model that you just purchased, take into account that the model is based in a real air lane, hus the flying difficulty is medium, it is not a trainer airplane.

Remember that in the first test flight, it is a good idea to move forward the GC a little bit, in order to obtain extra maneuverability. Do not fly with the Gravity Center behind the recommended mark,

ince the model could react in an incorrect way.

Every time that you fly, do it in a safe and responsible way, this model is not a toy and you must make ure that you fly in safe conditions.

D3LING.COM ill not be held accountable if there is a misuse of the model. Every time that you fly an RC product, do it safely and under your responsibility, and following the security regulations in you region.

Finally we want to state that we have worked very hard for a long time, and we will keep doing it in order to offer you every time better models and at an incredible price, f the most emblematic RC airplanes, but for this to be possible, lease do not distribute any of the files purchased in this package.

The d3ling team thanks you very much for that

We think now you know everything you need to know to enjoy your model.

If you have any suggestions, doubts or questions, don't hesitate to communicate them by sending an email to info@d3ling.com, y using the contact form in our website or by any other means that you find more suitable.



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