

## 1.6 User Manual



**Carrera** **RC**

**D** *Montage- und Betriebsanleitung*

**GB USA** *Assembly and operating instructions*

**F** *Instructions de montage et d'utilisation*

**E** *Instrucciones de montaje y de servicio*

**I** *Istruzioni per il montaggio e l'uso*

**NL** *Montage- en gebruiksaanwijzing*

**P** *Instruções de montagem e modo de utilização*

**S** *Monterings- och bruksanvisning*

**FIN** *Asennus- ja käyttöohje*

**PL** *Instrukcja montażu i obsługi*

**H** *Szerelési és használati utasítás*

**SLO** *Navodila za montažo in uporabo*

**CZ** *Návod k montáži a obsluze*

**N** *Montajse- og bruksanvisning*

**DK** *Monterings- og driftsvejledning*

**GR** *Οδηγίες συναρμολόγησης και λειτουργίας*

**Spider Fox**  
#501006

**RC Power**  
carrera-rc.com  
Made in China, Shantou.

Lieferumfang · Contents of package · Fournitures · Contenido del embalaje  
Contenuto della fornitura · Inhoud van de levering · Volume de fornecimento  
Leveransomfattning · Toimituslaajuus · Zakres dostawy · Szállítási terjedelem  
Vsebina pakiranja · Rozsah dodávky · Leveringsomfang  
Leveringsomfang · Παραδοτέος εξοπλισμός



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**Dear customer**

Congratulations! You bought a Carrera RC-helicopter which has been manufactured according to today's state-of-the-art technology. As it is our constant endeavour to develop and improve our products, we reserve the right to make modifications, either of a technical nature or with respect to features, materials, and design, at any time, and without prior notice. For this reason, no claims will be accepted for any slight deviations in your product from the data and illustrations contained in these instructions. These operating and assembly instructions are an integral part of the product. Non-observance of these operating instructions and the safety instructions they contain will render the guarantee null and void. These instructions are to be kept for future reference and in the event that the product is passed on to a third party.

**Guarantee conditions**

Carrera products are technically advanced products (NO TOYS) which should be handled with care. It is important to follow the directions given in the operating instructions. All components have been subjected to careful inspection (technical modifications and alterations to the model for the purpose of product improvement are reserved).

Should any faults nevertheless occur, guarantee is assumed within the scope of the following conditions: In accordance with the following provisions, Stadlbauer Marketing + Vertrieb GmbH (hereinafter referred to as "manufacturer") warrants to the endconsumer (hereinafter referred to as "customer") that the Carrera RC-model-helicopter (hereinafter referred to as "product") delivered to the customer shall be free from defects in material or workmanship for two years from the date of purchase (guarantee period). Such defects will, at the manufacturer's option, either be repaired by the manufacturer or fixed by delivering new or refurbished parts free of charge. The warranty does not cover any failure of the product due to normal wear and tear, improper handling/misuse or unauthorised interference. Any other customer's claims asserted against the manufacturer, especially action for damages, shall be excluded. The contractual and statutory rights of the customer against the seller (supplementary performance, rescission of the contract, abatement, compensation) which exist with the product not having been free from defects at the time of the passing of risk, shall remain unaffected by this warranty.

Claims from this special warranty shall only be valid if:

- the defect reported has not arisen by damage caused by unintended use or misuse as specified in the instruction manual,
- the failure of the product is not due to normal wear and tear
- the product does not show any signs resulting from repairs or other interferences carried out by workshops not having been authorised by the manufacturer,
- the product has only been operated with accessories authorised by the manufacturer and
- the product is sent in together with the original proof of purchase (invoice / receipt) and the completely filled in warranty card which has not been altered in any way.

Guarantee cards cannot be replaced.  
 Note for EU countries: Reference is hereby made to the seller's statutory guarantee obligation, to the extent that this guarantee obligation is not restricted by the product guarantee.

The manufacturer shall bear the costs for sending in and returning the product. This warranty shall be valid to the extent aforementioned and under the above-named circumstances (including the submittal of the original proof of purchase also in case of resale) for any future owner of the product.

**Damage Limits**

STADLBAUER MARKETING + VERTRIEB GMBH SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRO-

DUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in no event shall the liability of Stadlbauer Marketing + Vertrieb GmbH exceed the individual price of the Product on which liability is asserted. As Stadlbauer Marketing und Vertrieb GmbH has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.



**Declaration of conformity**

Herewith Stadlbauer Marketing + Vertrieb GmbH declares that this model including remote control meets the basic requirements of the following EC-guidelines: EN 50371, EN 301489-1 v1.8.1:2008, EN 301489-06 V 1.4.1:2002, EN 50371, EN 300220-2V21.1.2:2007, 2006/6/EC and 2004/108/EC referring to the electromagnetic compatibility and any other relevant requirements of guideline 1999/5/EG (R&TTE). The original declaration of conformity can be requested from [carrera-rc.com](http://carrera-rc.com).

CE 0197 Ⓢ

**Contents of package**



- 1x Helicopter Spider Fox
- 1x 2,4 GHz Controller with LCD Display
- 1x Battery charger
- 4x 1.5 V Mignon AA batteries (non-rechargeable)
- 1x Lanyard

**Requirement for FCC Part 15**

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver,
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Warning!**

A remote-controlled helicopter is NOT A TOY and is only suitable for teenagers over the age of 14!

This product is not intended for use by children without supervision of a parent. Inappropriate use may result in severe injuries and/or damage to property.

It has to be operated with care and caution and requires both mechanical and mental skills. The operating instructions contain notes on safety and technical regulations as well as information on maintaining and operating the product. It is indispensable to read these instructions thoroughly before the first usage. Only this helps to avoid accidents with injuries and damage.

Only use the helicopter in closed rooms which provide sufficient space and follow all instructions given in this manual. Make sure that no loose objects, including clothes, or other objects like pens or screwdrivers can become entangled in the rotor blades or can get in contact with them. Especially take care that your hands DO NOT get close to the rotor blades!

As user of this product you are solely responsible for handling it safely in order to ensure that neither you nor other persons or their property suffer damages or are endangered.

This model is controlled via a radio signal which might be disturbed by various sources from outside. These interferences can cause a short loss of control. Therefore it is advisable to always keep a safe distance to the model in order to avoid damage to property or injuries.

- Never use your model with weak remote control batteries.
- Avoid busy areas. Always make sure that there is enough space.
- Preferably do not use your model on an open street or in public areas in order not to endanger or hurt anyone.
- Exactly observe the instructions and warnings for this product and for any possible additional equipment (battery charger, rechargeable batteries etc.) being used by you.
- **Should the helicopter come into contact with any living thing or solid object, immediately return the gas control to zero, in other words the left-hand joystick must be at the stop at the bottom of the slide!**
- Make sure that all chemicals, small parts and electrical components are out of children's reach.
- Avoid any moisture as this might do damage to the electronics.
- There is a risk to suffer severe injury or even death if you put parts of your model into your mouth or lick them.

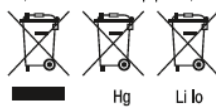
**Caution! Before you first fly the model, find out whether there is a legal requirement to insure model aeroplanes such as this in your country.** Information can be obtained for example from your insurance company whether your new and any previous model aeroplanes are included in your third-party insurance. Have this confirmed in writing and keep the correspondence in a safe place. It may be necessary for you to take out a special insurance policy to cover model aircraft.

**Important Information concerning Lithium-Ion rechargeable batteries**

Lithium-Ion (Li-ion) rechargeable batteries are significantly more sensitive than traditional alkaline, or NiMH-rechargeable batteries normally used with radio controlled models. Therefore the instructions and warnings have to be observed in detail. In case of improper use of Lithium-Ion rechargeable batteries there is a danger of fire. Always follow the manufacturers' instructions if you dispose of Lithium-Ion rechargeable batteries.

**Regulations on disposal for waste electrical and electronic equipment (WEEE)**

This symbol, showing refuse bins with a cross through them, denotes that empty batteries, rechargeable batteries, button cells, rechargeable battery packs, equipment batteries, disused electrical equipment, etc. should not be disposed of in domestic refuse, as they are harmful to the environment and health.



Please help to preserve environment and health and talk to your children about the correct disposal of used batteries and disused electrical equipment. Batteries and disused electrical equipment should be handed in to the usual collection points where they can be properly recycled.

Do not mix dissimilar battery types or employ new and used batteries together.

Empty batteries should be removed from the product. Do not attempt to recharge non-rechargeable batteries. Rechargeable batteries should only be charged under adult supervision. Exhausted batteries are to be removed from the toy. Rechargeable batteries should be removed from the product before charging. Supply terminal are not to be short-circuited. Only use the batteries recommended or equivalent types.

If in regular use the charger must be examined for damage to the cord, plug, covers and all other parts. If any signs of damage are found the charger may only be used again after repair work has been completed.

**Guidelines and warnings for the use of Li-Ion rechargeable batteries**

Although the 8.4 V == 1000 mA Lithium-Ion battery charger you received together with the Carrera RC helicopter has been developed especially for safe charging of the 7.4 V == 650 mAh Lithium-Ion battery, you have to read the following safety regulations and warnings before using or charging the Li-Ion rechargeable battery.

**Note:** Li-Ion rechargeable batteries are significantly more sensitive than traditional alkaline, or NiMH-rechargeable batteries normally used with radio controlled models. Therefore all instructions and warnings have to be observed precisely. In case of improper use of Li-Ion rechargeable batteries there is a danger of fire. When handling, charging or using the attached Li-Ion rechargeable battery you assume all and any risks connected with Lithium rechargeable batteries. If you do not agree to these terms please immediately return the complete helicopter model in new and unused condition to the retailer.

- You have to charge the attached 7.4 V == 650 mAh Li-Ion rechargeable battery in a safe place and at a safe distance to flammable material.
- Never leave the battery unguarded when charging it. When charging the battery you should always be nearby in order to control the charging process and to be able to react to potential problems.
- After a flight, the rechargeable battery has to cool down to the ambient air temperature before charging it.
- You may only use the appropriate Li-Ion battery charger. In case of non-compliance with these directions there is a danger of fire resulting in a health risk and/or damage to property. NEVER use any other battery charger.
- Store the rechargeable battery at ambient temperature in a dry place.
- **Always recharge the battery immediately after use to prevent its becoming deep discharged. Please make sure to allow a pause of about 20 minutes between finishing the flight and recharging the battery. Recharge the battery occasionally (suggested every 2-3 months). Failure to treat the battery as described above can lead to its becoming defective.**
- When transporting or temporarily storing the rechargeable battery the temperature should be between 5-50°C. If possible, do not store the battery or the model in a car and do not expose it to direct sunlight. In case the battery is broiled it can be damaged or catch fire.
- Do not discharge the Li-Ion battery beyond a certain level. If the battery is unloaded too deep the battery's output as well as its durability will decrease which can finally lead to a total breakdown. Li-Ion cells should not be discharged beyond 6 V when being used. The Li-Ion battery in the Carrera RC helicopter must not fall beyond 6 V voltage during the flight. The helicopter's control unit is equipped with a protection system (LVC) which is activated in case the voltage drops to under 6 V. With this cut-off being activated the control unit is going to reduce the engines' performance in order to avoid a voltage drop to under 6 V. Should you notice a reduction in performance you should land the helicopter at once and switch off the model as further discharging below 6 V will damage the Li-Ion battery permanently. This results in a reduction in the battery's output and durability for any following flights or in a total breakdown. In addition, repeated attempts to discharge the rechargeable battery furthermore may lead to the control system's breakdown although the engines are still running. The minimum voltage required for the receiver or other pieces of electronics is no longer reached then. It is not advisable to max the rechargeable battery to 6 V on each flight. Instead, you should keep an eye on the battery's/helicopter's charge condition during the flight. Should you notice that the helicopter requires stronger controlling than normally when hovering or flying you should land your model immediately. Nevertheless, frequent discharging of the rechargeable battery down to 6 V can damage it permanently.

**Note:** If the battery voltage/output is low you will recognise that a considerable trim and/or controlling is necessary to avoid that the helicopter starts trundling. This usually occurs before reaching a battery voltage of 6 V and it is a good moment to end the flight.





**Description of helicopter**



Right side



Left side

1. Rotor system
2. Tall rotor
3. Plugged connection for charging the Li-Ion battery
4. Landing skids
5. ON/OFF switch

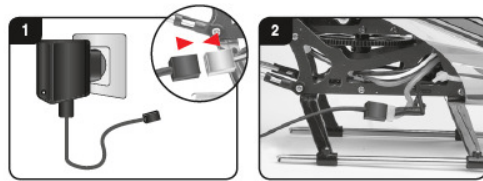
**Range of functions of the remote control**



1. Antenna
2. Power switch (ON/ OFF)
3. Control LED
4. Gas - tall (spinning in circles)
5. Trimmer for gas
6. Trimmer for tall
7. Forward/backward right/left pitch
8. LCD display
9. UP-button (UP)
10. DN-button (DN)
11. Select button (SEL)
12. Menu-button (Menu)
13. Beginner / Advanced mode (press the right joystick on the controller down vertically from above)
14. Trimmer for forward/backward
15. Trimmer for right/left pitch
16. Battery compartment
17. Slot for keeping Joystick extensions
18. Joystick extensions to screw on lever 4. & 7.

**Recharging the Li-ion rechargeable battery**

Please make sure that you charge the provided 7.4 V --- 650 mAh Li-ion rechargeable battery only with the provided 8.4 V --- 1000 mA Li-ion battery charger. In case you try to charge the rechargeable battery with a different Li-ion battery charger or any other battery charger, this might cause serious damages. Please carefully read the previous chapter about warnings and guide lines on the usage of rechargeable batteries before proceeding.



Please proceed as follows when charging the rechargeable battery in the helicopter with the appropriate battery charger:

- Connect the battery charger to the power socket. The green LED on the power supply unit indicates that the charger has correctly been connected to the power socket or that the rechargeable battery has been fully recharged.
- Connect the rechargeable battery in the helicopter to the charger. The green LED on the power supply unit indicates that the charger has correctly been connected to the power socket or that the rechargeable battery has been fully recharged
- Has the discharged battery been inserted correctly, the red LED on the charger will light up to indicate that the battery is now being recharged.
- It takes approximately 1 hour to recharge a discharged battery (not exhaustively discharged). As soon as the battery is completely charged the LED on the charger lights up green.

- Undo the plugged connection between the helicopter and the charger unit.
- In order to fly after charging, make the plugged connection to be found on the helicopter.
- **Undo the plugged connection on the helicopter if you are not going to use the helicopter. Failure to observe this precaution may cause battery damage!**

Note: when supplied, the Li-ion-battery is already partially charged, so the first charging cycle may well take less time.

**Inserting the batteries in the remote control**



Open the battery compartment with a screwdriver and insert the batteries in the remote control. Please keep in mind the correct polarity. After having closed the compartment you can check all functions of the remote control with the help of the power-switch on the front. With the power-switch turned ON and proper functioning, the top center LED on the remote control will light up red.



When the control LED flashes rapidly, the batteries in the controller must be changed.

### Preparing the first flight

This checklist does not replace the contents of the operating instructions. Although it can be used as a quick-start-guide we strongly advise to first read the operating instructions in detail before you proceed.

- Check the contents of the package
- Connect the charger to the power socket
- Charge the li-ion-battery as described in the section „Charging the li-ion battery“.
- Fit four AA batteries in the controller, making sure their polarity is correct.
- Look for a suitable environment for flying
- Place the helicopter on a flat surface
- Switch on first the helicopter and then the controller.
- Check the control system
- Make yourself familiar with the control system
- Trim the helicopter if necessary as described on P. 16, so that when hovering, the helicopter no longer moves from the spot without the controls being touched.
- Fly the model
- Land the model
- Switch the model off
- Always switch off the remote control last

### Checklist for flight preparation

This checklist does not replace the contents of the operating instructions. Although it can be used as a quick-start-guide we strongly advise to first read the operating instructions in detail before you proceed.

- Connect the plug-in connection at the model and switch on the model at the ON/OFF switch
- The LED in the helicopter now flashes in rhythmically-accelerating sequence.
- Switch on the controller at the ON/OFF switch. While connecting, the controller emits a signal tone.
- Place the charged helicopter on a flat surface.
- Allow the helicopter a few moments until the system is correctly initialised and is ready for operation.
- The LED in the helicopter is not lit continuously and the controller is no longer emitting its signal tone.
- The helicopter is now ready to be flown.
- If the helicopter fails to display any function, connect the model with the controller as necessary, as shown below.
- Fly the model
- Land the model
- Switch the model off at the ON/OFF switch and unplug the connection in the helicopter.
- Always switch off the remote control last

### Frequency bind between model and remote control



The Carrera RC helicopter and the remote control are frequency bound at purchase. Should there occur any problems with the communication between the Carrera RC helicopter and the remote control at the beginning, please carry out a new frequency bind.

- Connect the plug-in connection at the model and switch on the model at the ON/OFF switch.
- The LED in the helicopter now flashes in rhythmically-accelerating sequence.
- Switch on the controller at the ON/OFF switch. While connecting, the controller emits a signal tone.
- Place the charged helicopter on a flat surface.
- Allow the helicopter a few moments until the system is correctly initialised and is ready for operation.
- The control LED now lights continuously once again, indicating that the connection is ended.

### Changeover between Beginner / Advanced mode



When controller and helicopter are initially switched on, the model is in „Beginner“ mode.

To change between Beginner and Advanced mode when the controller and helicopter are switched on, press the right-hand joystick in vertically from above. The changeover can also be made while the machine is in flight. When changing over into Advanced mode, you will hear a single „beep“ signal and when changing into Beginner mode a „beep-beep“ will be heard.

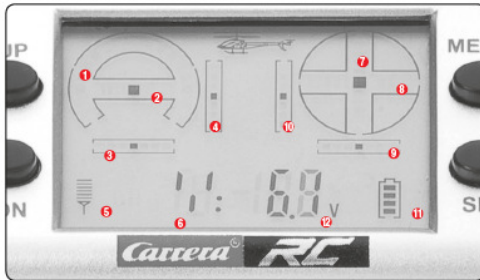
The helicopter reacts more sensitively in Advanced mode to your commands on the controller than it does in Beginner mode.

**Note:** you should first practice flying with the helicopter in Beginner mode until you are fully in control of the model. Only then should you switch over to Advanced mode. The helicopter will react in Advanced mode more sensitively to your commands on the controller!



**Explanation of the LCD-display**

Standard display and function overview



- |                                       |                                 |
|---------------------------------------|---------------------------------|
| 1. Throttle Indicator                 | 7. Forwards-backwards Indicator |
| 2. Rear Indicator                     | 8. Left / right bank Indicator  |
| 3. Trim Indicator rear (circling)     | 9. Trim Indicator left / right  |
| 4. Trim Indicator throttle            | 10. Trim Indicator front / rear |
| 5. Indicator of radio signal strength | 11. Battery status Indicator    |
| 6. Menu-point, Y = standard Indicator | 12. Battery voltage (V)         |

**Overview menu points**

You call up the setting menu points by pressing for three seconds on the menu button. The most recently-used setting menu point flashes and appears at the bottom of the LCD display. Using the buttons „UP“ or „DN“, you navigate through the setting menu. Use the „SEL“ button to select the respective menu point shown and the corresponding indicator value then flashes. Use the buttons „UP“ or „DN“ to alter the indicated value of the selected menu point. Press the „SEL“ button again to confirm the indicator value and the menu point will again start to flash. Finally, to confirm the settings press on the menu button again.

- L – left rotation (circling)
- R – right rotation (circling)
- F – forwards movement
- b – backwards movement
- A – left banking
- C – right banking
- T1-4 – Throttle curve

**Menu-point: L - left rotation (circling)**



In the setting menu, select the menu point „L“. By pressing the „SEL“ button, you confirm selection of the menu point „L“. The indicator value to the right alongside the menu point „L“ begins to flash. You can now alter the indicated value by using the „UP“ or „DN“ buttons. The greater the indicated value, the more sharply the model veers left the value can lie between 0 and 100. The standard setting is 100. You confirm the indicated value by pressing the „SEL“ button again. Finally, to confirm the settings press on the menu button again.

**Menu-point: R – right rotation (circling)**



In the setting menu, select the menu point „R“. By pressing the „SEL“ button, you confirm selection of the menu point „R“. The indicator value to the right alongside the menu point „R“ begins to flash. You can now alter the indicated value by using the „UP“ or „DN“ buttons. The greater the indicated value, the more sharply the model veers right; the value can lie between 0 and 100. The standard setting is 100. You confirm the indicated value by pressing the „SEL“ button again. Finally, to confirm the settings press on the menu button again.



**Menu-point: F – forwards movement**



In the setting menu, select the menu point „F“. By pressing the „SEL“ button, you confirm selection of the menu point „F“. The indicator value to the right alongside the menu point „F“ begins to flash. You can now alter the indicated value by using the „UP“ or „DN“ buttons. The greater the indicated value, the more the model will head forwards; the value can lie between 0 and 100. You confirm the indicated value by pressing the „SEL“ button again. Finally, to confirm the settings press on the menu button again.

**Menu-point: b – backwards movement**



In the setting menu, select the menu point „b“. By pressing the „SEL“ button, you confirm selection of the menu point „b“. The indicator value to the right alongside the menu point „b“ begins to flash. You can now alter the indicated value by using the „UP“ or „DN“ buttons. The greater the indicated value, the more the model will head backwards the value can lie between 0 and 100. You confirm the indicated value by pressing the „SEL“ button again. Finally, to confirm the settings press on the menu button again.

**Menu-point: A - left banking**



In the setting menu, select the menu point „A“. By pressing the „SEL“ button, you confirm selection of the menu point „A“. The indicator value to the right alongside the menu point „A“ begins to flash. You can now alter the indicated value by using the „UP“ or „DN“ buttons. The greater the indicated value, the more the model will bank to the left the value can lie between 0 and 100. You confirm the indicated value by pressing the „SEL“ button again. Finally, to confirm the settings press on the menu button again.



**Menu-point: C - right banking**



In the setting menu, select the menu point „C“. By pressing the „SEL“ button, you confirm selection of the menu point „C“. The indicator value to the right alongside the menu point „C“ begins to flash. You can now alter the indicated value by using the „UP“ or „DN“ buttons. The greater the indicated value, the more the model will bank to the right the value can lie between 0 and 100. You confirm the indicated value by pressing the „SEL“ button again. Finally, to confirm the settings press on the menu button again.

**Menu-point: T1-4 - Throttle curve**



**Warning: altering the indicated values under menu points T1, T2, T3 and T4 is only recommended to be carried out by experienced hobby-pilots!**



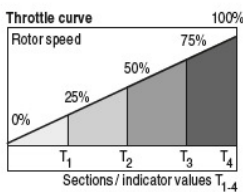
In the setting menu, select the menu point T<sub>1</sub>, T<sub>2</sub>, T<sub>3</sub> or T<sub>4</sub>. By pressing the „SEL“ button, you confirm selection of the menu point T<sub>1</sub>, T<sub>2</sub>, T<sub>3</sub> or T<sub>4</sub>. The indicator value to the right alongside the menu point T<sub>1</sub>, T<sub>2</sub>, T<sub>3</sub> or T<sub>4</sub> begins to flash. You can now alter the indicated value by using the „UP“ or „DN“ buttons.



The standard distribution is T<sub>1</sub> = 25 %, T<sub>2</sub> = 50 %, T<sub>3</sub> = 75 %, T<sub>4</sub> = 100 %.



By altering the respective values, the response behaviour of the throttle is altered. You confirm the indicated value by pressing the „SEL“ button again. Finally, to confirm the settings press on the menu button again.



**Controlling the helicopter**



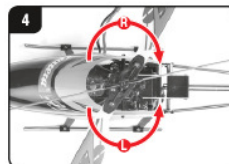
In case you don't know the control functions of your Carrera RC helicopter yet, please take some minutes before the first flight in or to make yourself familiar with them. The descriptions left or right refer to the view out of the cockpit (pilote's view).



With the throttle being at minimum position and the trim of throttle in medium or lower position, the rotor blades are not going to revolve. Push the throttle up to increase the rotational speed of the main rotor blades. Increase the rotational speed of the main rotor blades and the model will start to ascend.



If you push down the throttle and thus reduce the rotational speed of the main rotor blades the helicopter will descend. When the model has lifted off the ground you can get it into stationary hovering without abrupt ascending or descending by carefully moving the throttle upwards and downwards.



Move the left lever (tail) to the left and the helicopter's nose turns (yaws) round the main rotor's axis in a circle to the left. Move the left lever (tail) to the right and the helicopter's nose turns (yaws) round the main rotor's axis in a circle to the right.



Use the trimmer for tail until you have reached a stable neutral position of the helicopter when hovering, without moving the left lever (tail).



The forward-/backward lever controls the helicopter's pitch forward and backward. When shifting the lever forward the nose of the helicopter will move downwards and the helicopter will fly forward. When shifting the forward-/backward lever backward the helicopter will move backwards and the helicopter



will fly backward. Use the timer for forward-/backward in order to achieve a stable neutral position and to avoid that the helicopter flies forward or backward when hovering without moving the forward-/backward lever.



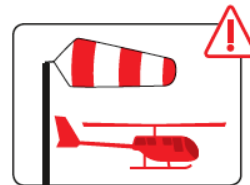
When shifting the lever for right/left pitch to the left or right, the helicopter pitches to the left or to the right and flies to the left and right respectively. Use the timer for right/left pitch in order to achieve a stable neutral position and to avoid that the helicopter will fly to the left or right when hovering without moving the lever for right-/left pitch



After having made yourself familiar with the main control functions and having chosen an appropriate area for flying the helicopter, you can start the first flight.

### Choosing the flight area

When being prepared for the first flight you should choose a closed room without any persons or obstacles which is as big as possible. Due to the size and controllability of the helicopter experienced pilots may be able to fly the helicopter in relatively small rooms. For your first flights we strongly recommend to choose a room with a minimum floor space of 3 x 4 metres and 2.40 metres of height. After having trimmed your helicopter for flight and having made yourself familiar with the controlling and its functions you may start flying in smaller and less open environments.



The helicopter may be flown out of doors, but only on calm days or days of very little wind. Please note that in spite of calm conditions near the ground, it can be very windy a little further from the ground. If this advice is disregarded, the helicopter may suffer irreparable damage.

For more information on our RC-products please visit [carrera-rc.com](http://carrera-rc.com).

### Troubleshooting

Problem	Cause	Solution
Remote control does not work.	The ON/OFF-power switch is turned "OFF".	Turn the ON/OFF-power switch "ON".
	The batteries have been wrongly inserted.	Check if the batteries have been correctly inserted.
	The batteries do not have enough power.	Insert new batteries.
The helicopter cannot be controlled with the remote control	The ON/OFF power switch of the controller is set at "OFF".	First set the ON/OFF power switch on the helicopter, then that on the controller to "ON".
	The remote control is possibly not correctly frequency bound with the receiver on the helicopter.	Please carry out a frequency bind between the helicopter and the remote control as described in "frequency bind between model and remote control".
The rotor blades do not rotate.	The power switch on the model or the controller is at "OFF"	Turn the ON/OFF-power switch "ON".
	The rechargeable battery is too weak or has run out of power.	Charge the battery (see chapter "Charging the battery").
	The battery connection on the helicopter is not made.	Make the plugged connection to be found on the helicopter.
	You have altered the indicated values of menu points T1-4.	Please reset the indicated values of menu points T1-4 to the values of the standard distribution (P.16).
The helicopter does not lift.	The rotor blades rotate too slowly.	Push the throttle up.
	The battery's power is not sufficient.	Charge the battery (see chapter "Charging the battery").
During flight, the helicopter loses speed and height without any obvious reason.	The battery is too weak.	Charge the battery (see chapter "Charging the battery").
The helicopter lands too quickly.	Lost of throttle control.	Push the throttle down slowly.
	Throttle has been pushed down too quickly.	

For the latest version of these operating instructions and information on replacement and spare parts available, please visit [carrera-rc.com](http://carrera-rc.com) in the service area.

Errors and changes excepted  
Colours/ final design – changes excepted

Technical changes and design-related changes excepted  
Pictograms = symbolic photos