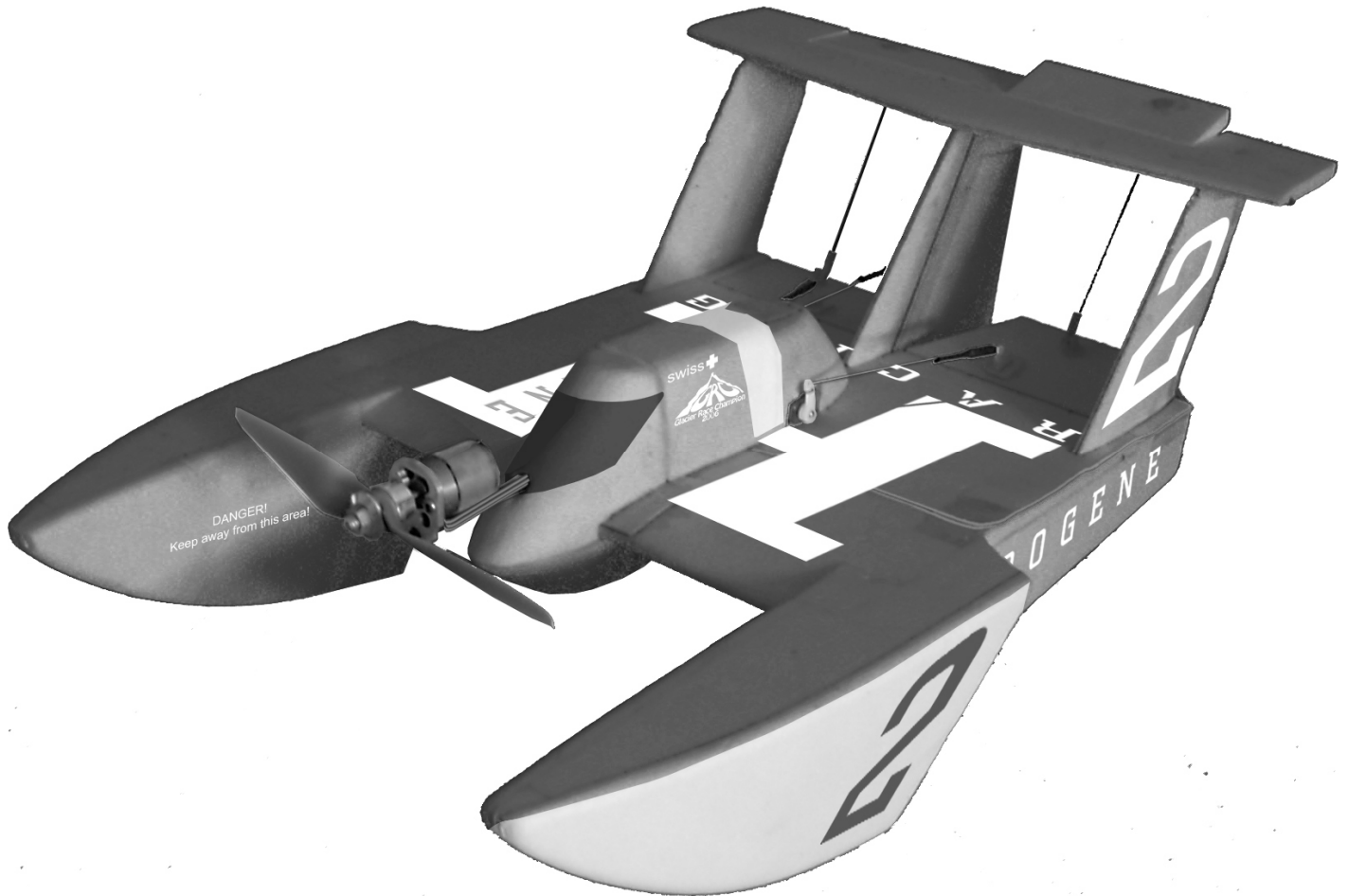


Hi-Skyper^{3D Air Glider}™

Manual



Information, updates and the latest manual for download under
www.Hi-Skyper.com

Content

Model is made of a multipart EPP-
Body

Brushless motor with holder
Propeller
Motor controller
3 Servos
Cockpit cover

Controller
with internal mixer
Antenna with flag

Parts to add:

Rear wing
left and right truss
Ruder
6 screws to fix the rear wing
3 servo arms with screw
2 short linkage for the elevator
1 medium linkage for the ruder
2 long linkage to connect lower and
upper elevator
4-Channel receiver with antenna wire

1000mAh 7,2V LiPo battery pack

Accessoires

LiPo charger with balancer
10V /220V adaptor
BlueGlue EPP glue
water protection tape
screwdriver

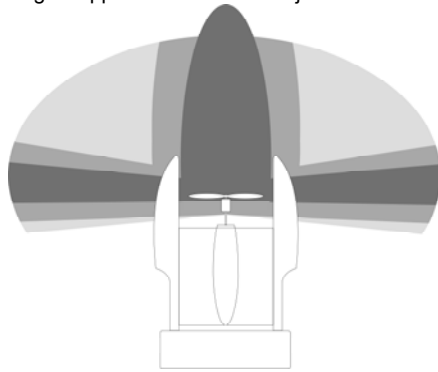
Spare propeller

manual
Registration card

V.1.04

SECURITY ADVICES

- The Hi-Skyper is not suitable for children under the age of 14 years. Adolescents just can run the model under attention of a parent.
- The operation with this Hi-Skyper model requires a high level of technical knowledge, carefulness and an special safety-conscious acting.
- The usage under the influence of alcohol or drugs is prohibited.
- Never use in public traffic, nearby parcs, schoolyards and playgrounds.
- Keep sufficient distance to traffic, rail traffic, airports, buildings and high voltage wires.
- ATTENTION! The Hi-Skyper has a real fast rotating and powerful engine! Never reach for the rotating actuation. Fingers could be disembodied. Never stand in the area where the model is flying or in front of it. Bring to mind that damaged parts can come off. Those parts can cause considerable injuries. Please attend the danger zone and advert spectators of the dangers that are connected with using the Hi-Skyper. A safety clearance of 5 meters has to be observed. Always keep the necessary distance to persons and obstacles – never cross those with a low height. Approach to the model just from the back.



The picture shows the models danger zone – the darker, the higher is the risk of getting injured in the mentioned zone. The radius of the danger zone is 5 meters.

- The Hi-Skyper has no brakes! Consider the breaking distance depending on the subfont.
- Without motor speed the model is not controlable.
- Check the model on damages before every start. **NEVER** start the model with a damaged accumulator, damaged engine or defective steering. The functionality of the remote control has to be checked before every start.
- Don't run the model in brine or saline beaches.
- The use during temperatures between -5°C and 35°C is not recommendable.
- Don't use the model during strong current, high waves and strong wind.
- The usage in areas of nature reserve, landscape reserve and water pollution control is prohibited.
- In Case of a damage just use original Hi-Skyper spare parts.
- The model must be run with full loaded transmitter accumulators respectively with new batteries.
- Pay attention that you don't disturb other models with the same channel or that they disturb you. Don't start the Hi-Skyper if you're not sure that the chosen channel is free.

Warnings Lithium Polymer Battery Pack!

Charge the Lipo battery pack only under supervision. Store the Battery on a non-flammable and heat resistant surface during charging. Keep away from flammable goods and liquids. Never charge inside a vehicle!

- Mishandling may occur explosion, fire and smoke including damage of health or goods. It will also reduce battery performance.
- Stop using our model when battery power rapidly goes down. Discharging lower than 2,5V will cause permanent damage!
- Capacity of the LiPo battery pack will be reduced with every discharging circle. After 50 circles the capacity is reduced to 60-80%.
- Use a LiPo-Charger with balancer for charging only!
- Charge and store the LiPo battery pack at a temperature of 0°C to 40°C – avoid a temperature higher than 65°C when discharging.
- Never charge a damaged LiPo battery pack. Stop charging if the LiPo battery pack is getting deformed (blown up).
- Never charge with reversed polarity – permanent damage, fire and smoke may occur!
- Do not shortcut – Risk of explosion and fire!
- Never carry a Lipo in pockets of your trousers or jacket – in case of fire, taking them out will not be in time!
- Avoid contact to any kind of liquids.
- The LiPo battery pack is not a toy! Keep away from children!
- If electrolyte contacts your skin or eyes, immediately wash it off using plenty of clean water. Consult a doctor!
- Remove the LiPo battery pack of the model after using and store according to the charging instructions. Note that deep-discharged batteries will be damaged permanent. Charge in time!
- Dispose used batteries in the appropriate manner.

Note:
ACME the game company is unable to ensure correct use according to these instructions. For this reason ACME the game company is obliged to refute any claim under guarantee.

The remote control

The model will be controlled by the left and right throttle (1 & 2) – Factory Settings: left sided elevator and ruder/ right sided acceleration and Querruder. The trimmer (3-6), each close to the throttle will be used to adjust ruder an elevator. Under the cover (7) the crystal is located which firms the channel off he controller – onboard the receiver inside the model the opposite one is build in.. Spare crystals to change the channel are available at your nearest model retailer. Beneath the crystal the LED (8) green indicates power, the LED (9) red the activated mixer. Settings of the microswitches (10) will be shown later on. The switch (0) at the left will reduce the elevator by 50% (dual rate).

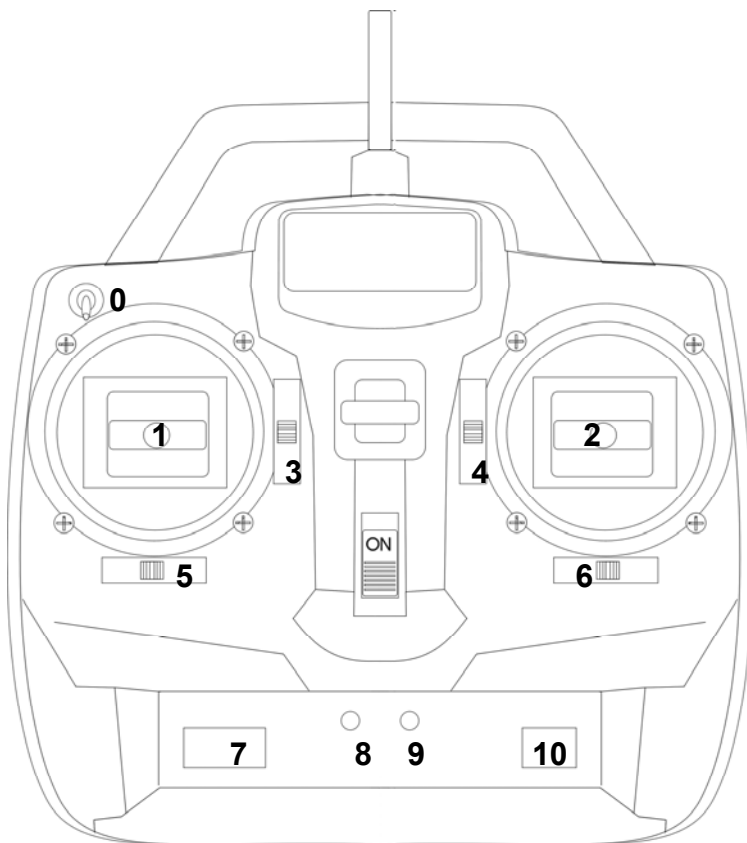


Fig.1

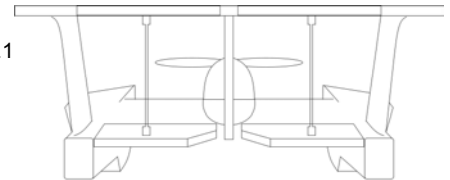


Fig.2

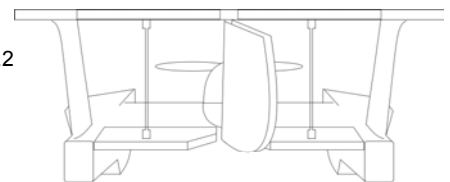


Fig.3

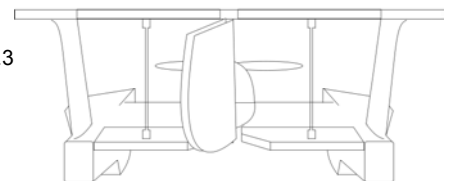


Fig.4

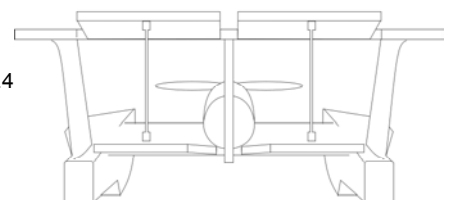


Fig.5

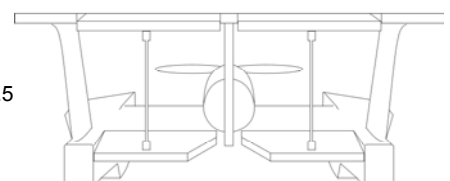


Fig.6

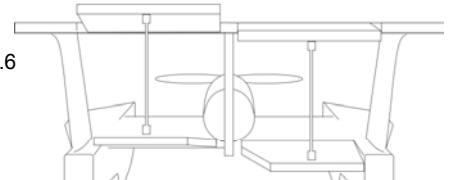
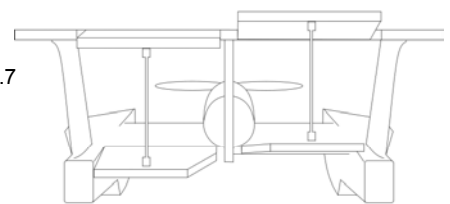


Fig.7



Figures 1-7 shows ruder and elevator action
(Mikroschwitches 1 OFF , 2-4 ON):
Throttle position will be given in clock: 0= center position

Fig.	Left throttle	Right throttle	Description
1	0	6	Neutral
2	3	6	Right
3	9	6	Left
4	6	6	Rise
5	12	6	Decrease
6	0	4	Role to the right
7	0	8	Role to the left

Settings of microswitches (10) from the left to the right

Schalter	Description
1	Invert ruder
2	Invert mixer
3	Invert elevator
4	Mixer on/off

Assembling of the model

Step 1 Assembling of the rear wing

Add the parts as shown in Figure 1. Assure that the outer carriers are not mixed up (Stickers at the outer side)

Fix the carriers and ruder to the wing using the smaller screws.

Step 2 Installation of the receiver

Below the cockpit you will find the plugs for the servos and the motor controller marked as follows:

- 1 Motor controller/Power
- 2 Servo left - elevator
- 3 Servo center - ruder
- 4 Servo right - elevator

Connect the plugs as shown in Fig. 2. Pay attention to the right polarity!
(Ground/black is outside).

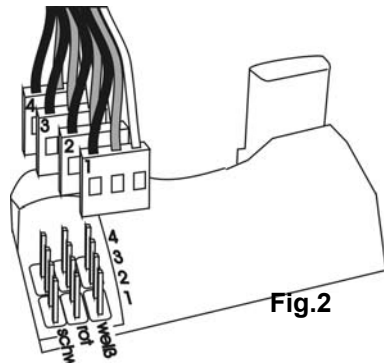


Fig.2

Step 3 Adjustment of the servos and connection of the linkage

Prepare the pre-adjustments of the elevator. Turn the controller on and move the trimmers to center position. Pull the right throttle to 6 o'clock. Connect the charged Lipo battery now. Attention! The motor confirms readiness.

Servos are in center position now. Disconnect the Battery before continuing. Mount the servo arms as shown in Figure 3. Arms for the elevator point upright Above, the one for the ruder points to the right. Fix the arms with the screws.

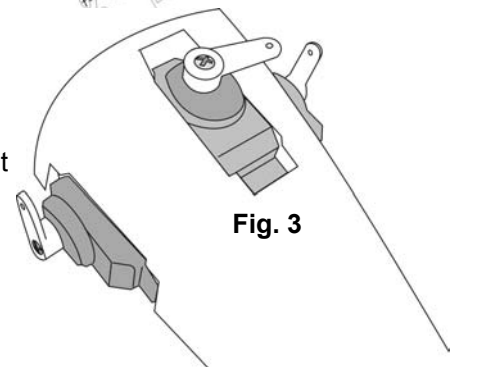


Fig. 3

Both PCB's have to be wrapped by the included teflon sealing tape to prevent destruction by wetness.

Step 4 Sticking the rear wing

Put the rear wing for testing into the mounting slot of the body marked with A;B and C (Figure 4).Assure that everything fits together and take off the wing again. Put some BlueGlue into the slots now.

IMPORTANT! Work very exactly!

Install the wing swiftly now and move it into exact position without leaving any gaps between carriers and body. Let it dry for 5 minutes.

Step 5 Installing the linkage

Hook the linkage to the servo arms.

Connect the short ones with left and right elevator, the medium one with the ruder. Turn the trim parts to adjust elevators and ruder. Last but not least connect the lower and upper elevators with the remaining longer linkages.

Make sure that finally all elevators will have the same position

Guide the antenna off the cockpit to the ruder. Unscrew both center screws a bit and put antenna between carrier and wing. DO NOT shorten the antenna!

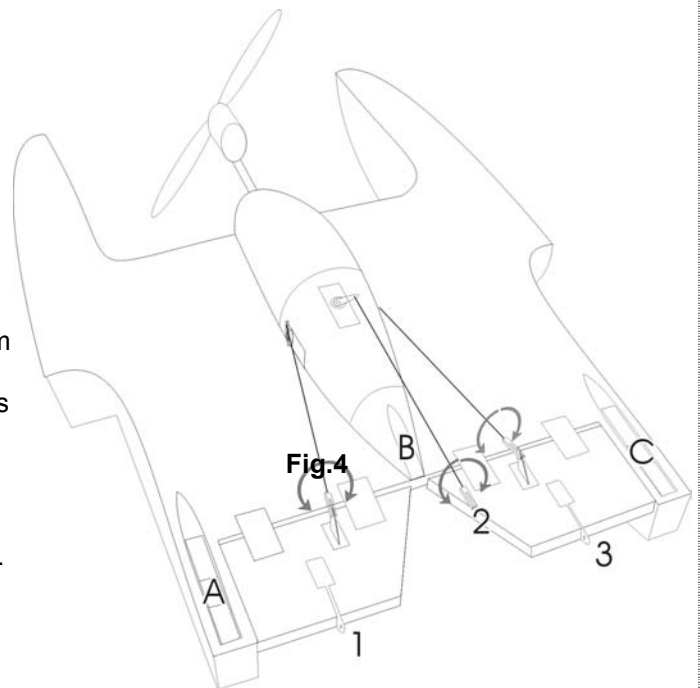


Fig.4

ATTENTION! ATTEND SECURITY ADVICES

Test drive, not test flight

Weather conditions: less / no wind

For testing the Hi-Skyper , a free and flat surface is required – a sheet of ice, a snow-capped or asphalted area with the dimensions of 100 x 100 m would be ideal.

Always attend the following way of proceeding:

The operating time of the remote control covers the time of the model – that means: switch on the remote control first and then the model. If you switch it off, first the model then the remote control.

Switch on the remote control. Pull the throttle (right) to 6 o'clock. Connect the LiPo battery pack with the Hi-Skyper and shut the cockpit. Absent yourself from the model. Now, move the right stick to the left or right – the rudder reject to the left or right. If you move the control stick (left) to the front the elevators go down if you move it to the back they go up. The control stick has to be steered very precise because an unobservant moving can cause the takeoff and lead to a damage by landing. To avert the accidental takeoff, in case you're not acquainted with steering a 4-channel model aircraft, please remove the linkage from servo to elevator to try the first slides without the elevators. Now move the control stick to the front – the propeller starts to turn- depending on the surface the model starts to move slowly forward. Do some turns before moving the stick further and correct the on-center feel with help of the trim notch.



Please attend:

The Hi-Skyper has no breaks and will continue gliding while the motor is powered off. Controlling the model is reduced when the propeller is stopped!

The speed can be reduced by moving the elevators down. The nose will be pressed to the ground and the model gets slower.

Get used to the sliding at the ground before you try to fly. Do the next step only when you are able to control the model at the ground – complete linkage installed.

Hoovering

Weather conditions: No wind

As long as the skids of your Hi-Skyper touch the ground you are a good Hi-Skyper pilot. To the next step: hoovering with 2 to 7 centimeters to the ground.

Preparations to start are known – make sure that elevators and ruder are in exact positions. Start against wind direction and increase the speed one by one. Reduce the speed if the model lifts off with one skid only. Adjust the model by moving the trims and try again. Redo the start again and again – and begin than with light ruder movement



Flying

Weather conditions: No wind

Within the last days your Hi-Skyper got cuts and perhaps was also broken – time to train the flying. This chapter is especially short because within the last days you got known of your model and you know how it reacts. Probably you already had experience in short flights. Two things to say: flying the model requires full batteries and less ruder. In the air the model will be controlled by the elevators only. If this is new for you return to hovering! Separate available V-wings can help to stabilize the model.

The Elements

Water

Before entering the water you have to prevent the PCB's against water. Wrap both PCB's with teflon tape until they are water resistant. Water

Check if the EPP-Body of your Hi-Skyper is undamaged. Maybe materialabrasives let water in; your model will become a heavy weight and take off from the water will be impossible. Just operate your Hi-Skyper on smooth water surfaces – Waves but also heavy curves can overturn the model - navigate against with the elevator. Should the model land headlong in the water tow directly the throttle to the back. More gas can destroy the motor controller, if water gets inside the Hi-Skyper. Check directly the body and the battery pack if water is intruded in the inside. If the battery pack is wet, disconnect the circuit and let the components dry. Keep the battery pack according to the safety instructions and let it dry.

Frozen water

If you test your Hi-Skyper on an iced areal, just enter it if everything safety. Don't get in Danger. On an iced area the Hi-Skyper can achieve the top speed – optimal to fight races. Sliding on a snowcovered surfaces is ideal for first Hoover- or flightsteps. The snowcover safes the model for damages.

Fire

Flying through a ring of fire you must abandoning other. Hopefully you've read in the safety instructions that the Hi-Skyper is in deal with fire.

Earth

Is very suitable, assumed if it is snowy or just asphaltic. But the asphaltic can damage your Hi-Skyper more than smoothie snow.

Air

The Air and also the Ground are home of the Hi-Skyper – but the requirements to the pilot are more ambitiously! Don't damage your Hi-Skyper, because you overvalue yourself.

Repairs

Your Hi-Skyper is made of EPP (..) a material which can absorb mechanic interferences through extreme resiliency. Anyhow the model can damage. Possible breaks and broken plastic parts you can glue with the EPP-glue (Blue Glue) inside the set. To glue the carabon shaft to the motorbody in the plastic holder use superglue with activiator (model shop) or synthetic resin. Change damage propellers .

An unbalance can bunk out the Motor supporter.

Servicing & Care

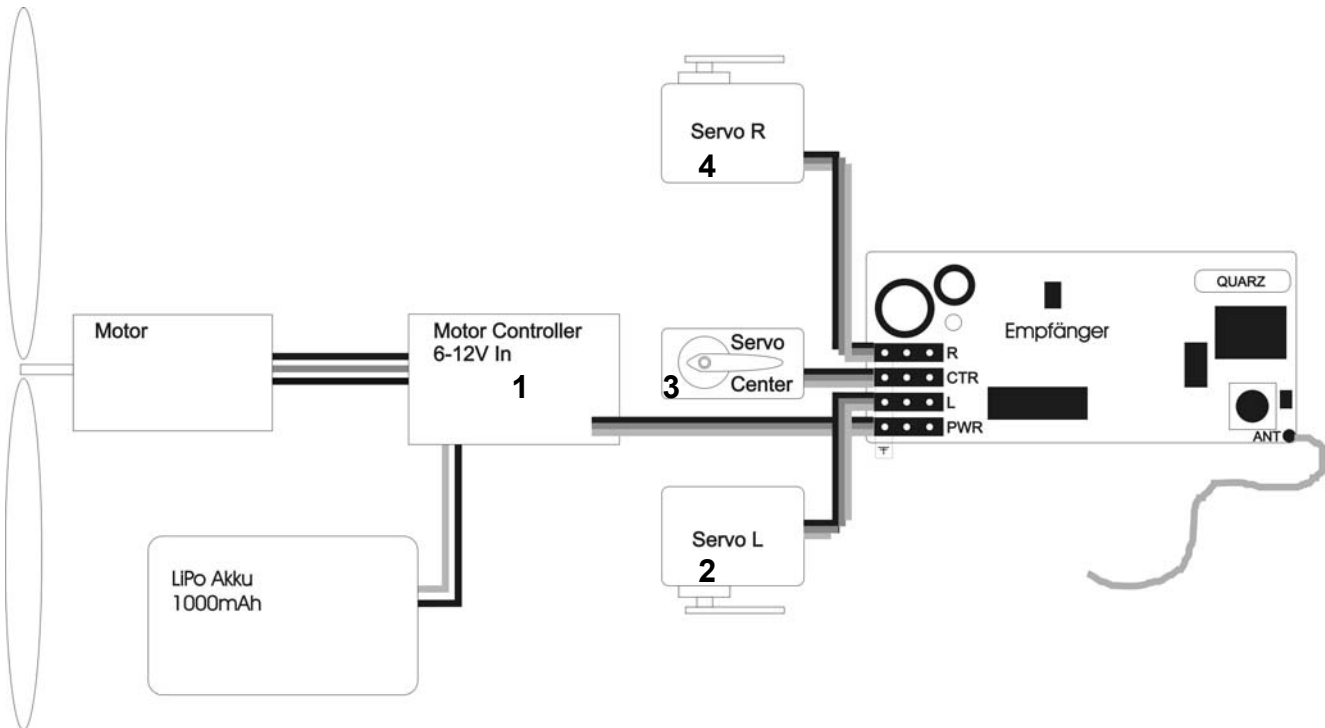
Clean the model after every insert and remove dust and dirt, so you can stay long with the Hi-Skyper. Water inside must remove. Change damage accessories!

You get all spare parts at your modelmakingshop or in the internet under www.Hi-Skyper.com . At the end of this instruction you will see a list of spare parts. If you need help, call: Fon +49 700 77 77 00 or mail at support@Hi-Skyper.com.

Debugging

Error	Reason	Resolution
Model doesn't react.	Accumulator is not charged	Load accumulator.
	Remote control is not switched on	Switch on remote control.
	Accumulator plug is not connected the right.	Open the shutter of models accumulator and check the connection.
	Empty batteries inside remote control.	Change batteries – charge accumulators. Check the connection of the charging lead.
The model can't be controled resp. just hardly controlled.	Batteries / accumulator to weak.	Load accumulators – if necessary change batteries
	Remote control with a wrong frequency.	Just use supplied remote control!
	The Electronics or engine of the model is damaged.	Installation of new electronics – on www.Hi-Skyper.com you will find suppliers.
	Contact breaks down after 5 – 15 meters.	Models antenna abrupt – (let it) solder
	Contact breaks down after 30 – 50 meters	Receiver or transmitter board damaged – service
Servo reacts slowly resp. delays control commands.	Servo damaged	Change defective servo
Model doesn't keep the track. (ice, asphalt)	On a hard, slick ground the model just changes the direction by the propellers boost.	For the usage on iced surfaces the Hi-Skyper can be modified by little lightweight steel edges.
Model can be controled hardly.	Foreign objects disrupt the free run of the propellers.	Clean the model
	Fuselag seriously damaged.	Repair damages like crannies or breakings by Blue Glue or change damaged parts.
	The wind speed is to high, it's squally.	Wait for better wheather.
The model tilts to the left or right during flying, without touching the controlstick.	The Hi-Skyper is pretty wobbly caused by its construction type.	Constant steering into the opposite direction is necessary.
The model doesn't start from the water.	Accumulator not charged completely.	Charge accumulator.
	Accumulator exhausted.	Insert new accumulator
	The fuselag is damaged and the the EPP soaks up water – the model becomes to heavy.	Let the model dry off and caulk the damaged parts by Blue Glue. If necessary replace fuselag or vats.
The model doesn't slide straight.	The plastic sliders are damaged.	Stick new plastic sliders on the model.
	Trimming is not alright.	Trim rudders
	The surface falls off to one side.	Choose another surface for starting
	Sidewind affects the sliding.	Always start against the wind.

Schematic



Further hints are available on the Hi-Skyper homepage: www.Hi-Skyper.com

**Ersatzteile & Zubehör / Spare Parts & Accessories
Pièces de Rechange & Accessoires**

Artikel-Nr. Catalogue-No.	EAN	Artikel Article	Beschreibung Description
HS1101		Propeller Propeller	
HS1103		LiPo Battery Pack 7,4V	2x LiPo Zelle 1000mAh 2x LiPo cell 1000mAh
HS1106		Kompletter Rumpf Complete fuselag	
HS1107		Motorhalterung engine mounting	Kunststoffanker mit Karbonstab und Alu-Motoraufnahme plasticbrace with carboniferous bar and aluminium engine attachment
HS1108		Kunststoffanker Plasticbrace	für Motorhalterung for engine mounting
HS1109		Abdeckhaube covering hood	Kabine mit Verschluss Cabin with closure
HS1110		Kufe L skid l	
HS1111		Kufe R skid r	
HS1102		Motor Engine	Brushless
HS1105		Servo servo	
AA1112		Gestänge linkage	5x Steuergestänge 5x linkage for steering
HS1104		Empfänger receiver	Ohne Quarz without Quartz
HS1107		Motor Controller engine controller	
HS1113		Abdichtset Caulking-set	
HS1114		Gleiterfolienset set with foils for sliding	
AA1124		BlueGlue	EPP-Klebstoff EPP-glue
HS1115		Antenne antenna	für die Fernbedienung for the antenna
HS1132		LiPo Ladegerät LiPo charger	
AA1130		FlyCamOne USB	8Mb 24g 320x240px Li-Ion SD CardSlot

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info@ACME-Online.de
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CE - Declaration

Herewith we declare that this item is in accordance with the essential requirements and other relevant regulations of the directive 1999/5/EC. A copy of the original Declaration of Conformity can be obtained at the following address.

Hiermit erklären wir das dieses Modell den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 199/5/EG entspricht. Eine Kopie der Konformitätserklärung kann unter der nachfolgenden Adresse angefordert werden.

Par ceci nous déclarons que cette model est en règle avec le requises essentielles et autres régulations relevantes de la directive 1999/5/EC. Une copie de la Déclaration d'origine de Conformité peut être obtenu à l'adresse suivante.

Noi dichiara che questo veicolo è conforme ai requisiti essenziali e agli altri specifici regolamenti della direttiva 199/5/EC. Copia della Dichiarazione di Conformità originale può essere richiesta al seguente indirizzo.

Por la presente nosotros declara que este coche cumple con los requisitos esenciales y con el resto de la normativa relevante según la directiva n° 1999/5/EC. Una copia de la Declaration de Conformidad original puede ser obtenida en la siguiente dirección.

Hierbij verklaren wij dat deze auto voldoet aan de noodzakelijke eisen en andere relevante regelgevingen van de richtlijn 1999/5/EC. Kopien van de originele verklaring van conformiteit kan verkregen worden bij:

Härmed deklarerar vi, att denna bil överensstämmer med de väsentliga krav och relevanta föreskrifter av direktiv 1999/5/EC. En kopia av originalet av Declaration of Conformity kan rekvideras från följande adress:

Täma tuote on direktiiven 1999/5/EC vaatimusten mukainen. Alkuperäiset vaatimustenmukaisuus-asiakirjat ovat saatavilla:

Hermed erklærer vi, at denne bil overensstemmelse med de pakraevet reglementer og i henhold til andre relevante regulativer ifølge direktiv 1999/5/EC. En kopi af den originale erklæring med de angivne regler kan rekvideres på følgende adresse:

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E: info@acme-online.de
www.ACME-Online.de



Wichtige Hinweise zum Akku Pack und den Batterien

Hinweise zum Akku Pack im Modell

In die Modelle ist ein wiederaufladbarer Akku eingebaut. Ein unsachgemäßer Gebrauch kann zur Beschädigung oder Entzündung des Akkus führen. Bitte beachten Sie folgende Vorsichtsmaßnahmen:

- Beim ersten Laden des Akkus oder wenn das Fahrzeug längere Zeit nicht benutzt wurde, kann es sein, dass das Akku nicht vollständig aufgeladen wird. Das ist kein Mangel des Akkus. Während der ersten vier bis fünf Mal Auf- und Entladen (Fliegen) verlängert sich die Flugdauer kontinuierlich.
- Laden Sie Ihr Modell nur, wenn der Akku völlig entleert ist. Bereits aufgeladene Akkus sollten nicht weiter geladen werden, um eine Überladung zu vermeiden.
- Verwenden Sie zum Laden ausschließlich die speziell dafür in der Fernsteuerung integrierte Ladevorrichtung.
- Sollte das Akku-Pack sich erwärmen, so lassen Sie es vor weiterem Gebrauch vollständig abkühlen.

In dem Modell ist ein LiPo-Akku enthalten. Bringen Sie verbrauchte Akkus zu einer dafür vorgesehenen Sammelstelle.

Hinweise zu den Batterien in der Fernbedienung

Benutzen alkaline Batterien (1,5 V Mignon AA) oder Akkuzellen (1,2V AA). Ungeeignete Batterien können sich erhitzen, auslaufen oder kaputt gehen. Beachten Sie bitte folgende Hinweise:

- Nehmen Sie keine unterschiedlichen Batterietypen oder mischen neue und alte Batterien. Tauschen Sie immer ALLE alten Batterien gegen neue aus.
- Achten Sie beim Einsetzen der Batterien in die Fernsteuerung auf die richtige Polarität (+/-) wie im Batteriefach abgebildet.
- Versuchen Sie niemals die Batterien aus der Fernsteuerung zu öffnen. Lassen Sie die Batterien niemals heiß werden oder mit Feuer in Berührung kommen. Schützen Sie die Batterien vor Nässe oder Feuchtigkeit, um einen Kurzschluss zu vermeiden.
- Kommt auslaufende Batterieflüssigkeit mit Augen in Kontakt, so muss sofort mit viel kaltem Wasser ausgespült und ein Arzt konsultiert werden. Waschen Sie Batterieflüssigkeit, die mit Haut oder Kleidung in Berührung kommt, mit klarem Wasser ab.

Alte Batterien gehören nicht in den Restmüll, sondern sollten zu den entsprechenden Sammelstellen gebracht werden.

Important Battery Information

Model Battery Care

A rechargeable battery has been built into to main body of the model. Using the battery incorrectly will cause it to, rupture or ignite. Follow these precautions:

- Charge the battery only when the car is NOT running. To prevent overcharging, never recharge a battery which has already been fully charged. This will not increase flying speed.
- Recharge the battery only with the transmitters built-in charger.
- If the chassis becomes warm, let it cool before running again.

This product uses a NiMH battery. NiMH batteries are recyclable, and a valuable resource. To dispose of the battery, remove it and take it to a recycling centre.

Transmitter Battery Care

Always use AA alkaline batteries. If improper batteries are used in the transmitter, they may become hot, leak and may rupture. Follow these precautions:

- Do not mix different types of batteries, or old and new batteries.
- When changing batteries, replace ALL of the old batteries with new ones.
- Make sure the batteries are installed with the correct polarity as shown in the battery compartment.
- Do not disassemble your transmitter batteries. Never allow them to become hot or to burn. To avoid short-circuits, avoid getting them wet.
- If liquid from inside the batteries contact your skin or clothes, wash them with water. If leaked battery fluid gets into your eyes, flush them immediately with cool water and seek medical attention. Do not rub eyes.

Dispose empty Batteries at a recycling centre.

Entretien de la batterie du modèle

Le boîtier principal de la avion contient une batterie rechargeable. Si elle est utilisée de manière incorrecte, celle-ci peut fuir, se briser ou prendre feu. Suivez les instructions de sécurité suivantes :

- Si la model n'a pas été utilisée pendant longtemps ou si vous chargez la batterie pour la première fois, il est possible que celle-ci ne se charge pas à pleine capacité. Ceci ne veut pas dire qu'elle ne fonctionne pas correctement. L'autonomie du modèle augmente pendant les 4 ou 5 premiers chargements.
- Ne rechargez la batterie que lorsque le modèle cesse de fonctionner.
- Pour éviter tout risque de surcharge, ne rechargez pas une batterie qui vient d'être chargée à pleine capacité.
- Utilisez exclusivement le chargeur embarqué de la radiocommande pour recharger la batterie.
- Si le châssis devient chaud, laissez-le refroidir avant de l'utiliser à nouveau.

Ce produit utilise une pile NiMH. Les piles NiMH sont recyclables et constituent une ressource précieuse. Lorsque la pile ne fonctionne plus, enlevez-la et emmenez-la dans un centre de recyclage.

Entretien des batteries de l'émetteur

Utilisez toujours des piles AA. Si les piles de la radiocommande ne sont pas les piles adéquates, elles risquent de surchauffer, de fuir et de casser. Respectez les précautions suivantes :

- Ne mélangez pas différents types de piles, ou des piles neuves et usagées.
- Lorsque vous changez les piles, remplacez toujours TOUTES les piles usagées.
- Assurez-vous que les piles respectent bien les polarités indiquées dans le compartiment des piles.
- Ne chargez pas ou ne démontez pas les piles de votre radiocommande. Empêchez qu'elles ne surchauffent ou ne prennent feu.
- Pour empêcher les courts-circuits, évitez tout contact avec de l'eau.
- En cas de contact de liquide provenant des piles avec votre peau ou vos vêtements, lavez-les à l'eau. En cas de contact de fluide provenant d'une pile avec vos yeux, rincez-les abondamment à l'eau et consultez votre médecin.