**Spach 342**

**Instruction Manual**

**Specification:** Item: 8945

- **Wingspan:** 1250mm (49.2in)
- **Overall Length:** 1235mm (48.6in)
- **Wing Loading:** 46.5g/dm²
- **Servo:** 9g x 4pcs
- **Battery:** 14.8V 2600mAh Li-Po, 25c
- **Speed Controller:** 50A Brushless
- **Motor Size:** BM3715-900KV Brushless Outrunner
- **Flying Weight:** 1450g (51.2oz)

**SAFETY PRECAUTIONS**

This radio control model is not a toy!

- First-time builders should seek advice from people having building experience in order to assemble the model correctly and to produce its performance to full extent.
- Assemble this kit only in places out of children’s reach!
- Take enough safety precautions prior to operating this model. You are responsible for this model’s assembly and safe operation!
- Always keep this instruction manual ready at hand for quick reference, even after completing the assembly.

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Made In China
Safety Precautions

Never fly the Airplane where there are crowds of people, power lines overhead, automobiles or near highways, give yourself plenty of room for flying, as the plane can travel at a high rate of speed. Remember you are responsible for the safety of others.

Do not fly in strong winds.

Do not attempt to catch the Airplane while flying.

Children under the age of 16 should not have admission to the transmitter for the plane.

Never leave this system unattended, with the batteries in the unit and around children. Injury can result by children turning on the transmitter or the plane.

Keep away from the propeller at all times. The system can automatically start when the batteries are plugged in, regardless if the transmitter is in the on or off position. The propeller can cause injury!

Before flying, always remember to turn on the transmitter first, before plugging in the battery pack. Stay clear of propeller.

Always turn the speed controller all the way down and the switch on “OFF” (left control stick in the down position) before starting; otherwise the propeller will start on full power when you plug the battery into the plane.

After running the motor, disconnect the battery first before turning off the transmitter, otherwise the propeller may start at full power.

Never leave the charger or battery near wet areas.

Completely discharging a Li-poly battery can result in permanent damage to the cells of the battery. Therefore you must always remember to disconnect the battery after using the plane.

Before You Begin

Read through the manual before you begin, so you will have an overall idea of what to do.

Check all parts. If you find any defective or missing parts contact your local dealer. Please DRY FIT and check for defects for all parts that will require CA or Epoxy for final assembly. Any parts you find to be defective after the gluing process may be difficult to remove for warranty replacement. The manufacturer will replace any defective parts, but will be difficult to extend to the good parts that are good before bluing to defective parts during assembly.

Symbols used throughout this instruction manual comprise of following:

- Apply epoxy glue
- Assemble left and right sides the same way.
- Pay close attention here!
- Pliers
- Ensure smooth non-binding movement while assembling.
- Cut off shaded portion
How to use your dynam 2.4G rc system

- important

1. Put down throttle sticker.
2. Turn on transmitter power-switch.
3. Please let your receiver connect with battery in 10 seconds.
4. Check your protect-switch,
   when protect-switch in up station, put down, release from protect.
   when protect-switch in down station, put up frist, then put down again,
   release from protect, you can fly now.

Protect-switch

servo degree-adjust
knob clockwise,
all servo degree augment
RTF including:

- Fuselage
- Wing
- Elevator
- Landing gear
- Vertical stabilizer
- Push rod
- Propeller
- Glue
- Decal
- Li-Po battery (14.8V 2200mAh 25C)
- Transmitter
- Adaptor
- Fibreglass tube
- ESC
Assembly

1. Install the landing gear with M3*10mm screws.
2. Fix the landing gear cover in place with Double-sided adhesive.
3. Insert the glass fibre tubes in wings and put wings into fuselage.
4. Fix the wings with PA2.3*20mm screws.
5. Connect the aileron servos with Y wires.
6. Insert the horizontal stabilizer and vertical stabilizer in place.
7. Fix the stabilizers with PA2.3*20mm screw.
8. Install tail wheel with PA2*6mm screws.
Assembly

9 Insert the pushrod into elevator quick-controller and tighten the screw (the servo should be in center position).

10 Repeat the steps for the rudder.

11 Install the propeller.

12 Install spinner with PA2*6mm screws.

13 Slide the Side Force Generator (SFG) on to the leading edge of the wing. Apply a few drops of foam glue to stabilize the SFGs on the wings.

14 It shows how to open the canopy.
<table>
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<tr>
<th>MODE 1</th>
<th>MODE 2</th>
<th>MOVEMENT</th>
</tr>
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<td><strong>THROTTLE</strong></td>
<td><img src="image" alt="Mode 1 Throttle" /></td>
<td><img src="image" alt="Mode 1 Throttle Movement" /></td>
</tr>
<tr>
<td><strong>RUDDER</strong></td>
<td><img src="image" alt="Mode 2 Throttle" /></td>
<td><img src="image" alt="Mode 2 Throttle Movement" /></td>
</tr>
<tr>
<td><strong>ELEVATOR</strong></td>
<td><img src="image" alt="Mode 1 Rudder" /></td>
<td><img src="image" alt="Mode 1 Rudder Movement" /></td>
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<tr>
<td><strong>AILERONS</strong></td>
<td><img src="image" alt="Mode 2 Elevator" /></td>
<td><img src="image" alt="Mode 2 Elevator Movement" /></td>
</tr>
</tbody>
</table>

**Movement Notes**:
- **Airplane Action**: Indicates control movement of the airplane.
- **Control Plane Movement**: Indicates movement of the control plane.
The ideal C.G. position is 75~80mm behind the leading edge measured at where the wing meets the fuselage. In order to obtain the C.G. specified, add weight to the fuselage or move the battery position. Check the C.G. before flying.

Suggest Control Throw Setting

Elevator

Aileron

Rudder

Leads with silicon rubber (red/black)

14.8V 2200mAh
Li-Po 25C

ESC-50A

Propeller (13x6.5)
Specifications:

<table>
<thead>
<tr>
<th>Class</th>
<th>Model</th>
<th>Cont. Current</th>
<th>Burst Current (&gt;10s)</th>
<th>BEC Mode (Note1)</th>
<th>BEC Output</th>
<th>Battery Cell</th>
<th>User Programmable</th>
<th>Balance Discharge Protection</th>
<th>Weight</th>
<th>Size</th>
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<tbody>
<tr>
<td>12A</td>
<td>Esc-12</td>
<td>12A</td>
<td>15A</td>
<td>Switch</td>
<td>5V/3A</td>
<td>2-4</td>
<td>S-12</td>
<td>Available</td>
<td>N/A</td>
<td>19g</td>
</tr>
<tr>
<td>18A</td>
<td>Esc-12</td>
<td>18A</td>
<td>22A</td>
<td>Switch</td>
<td>5V/3A</td>
<td>2-4</td>
<td>S-12</td>
<td>Available</td>
<td>N/A</td>
<td>19g</td>
</tr>
<tr>
<td>25A</td>
<td>Esc-25</td>
<td>25A</td>
<td>35A</td>
<td>Switch</td>
<td>5V/3A</td>
<td>2-4</td>
<td>S-12</td>
<td>Available</td>
<td>N/A</td>
<td>22g</td>
</tr>
<tr>
<td>30A</td>
<td>Esc-30</td>
<td>30A</td>
<td>40A</td>
<td>Switch</td>
<td>5V/3A</td>
<td>2-4</td>
<td>S-12</td>
<td>Available</td>
<td>N/A</td>
<td>25g</td>
</tr>
<tr>
<td>40A</td>
<td>Esc-40</td>
<td>40A</td>
<td>55A</td>
<td>Switch</td>
<td>5V/3A</td>
<td>2-6</td>
<td>S-18</td>
<td>Available</td>
<td>N/A</td>
<td>35g</td>
</tr>
<tr>
<td>50A</td>
<td>Esc-50</td>
<td>50A</td>
<td>80A</td>
<td>Switch</td>
<td>5V/3A</td>
<td>2-6</td>
<td>S-18</td>
<td>Available</td>
<td>N/A</td>
<td>60g</td>
</tr>
<tr>
<td>60A</td>
<td>Esc-60</td>
<td>60A</td>
<td>80A</td>
<td>Switch</td>
<td>5V/3A</td>
<td>2-6</td>
<td>S-18</td>
<td>Available</td>
<td>N/A</td>
<td>60g</td>
</tr>
<tr>
<td>70A</td>
<td>Esc-70</td>
<td>70A</td>
<td>100A</td>
<td>Switch</td>
<td>5V/3A</td>
<td>2-6</td>
<td>S-18</td>
<td>Available</td>
<td>N/A</td>
<td>62g</td>
</tr>
<tr>
<td>80A</td>
<td>Esc-80</td>
<td>80A</td>
<td>100A</td>
<td>Switch</td>
<td>5V/3A</td>
<td>2-6</td>
<td>S-18</td>
<td>Available</td>
<td>N/A</td>
<td>62g</td>
</tr>
</tbody>
</table>

Wiring Diagram:

Programmable Items:

1. Brake Setting: Enabled / Disabled, default is Disabled
2. Battery Type: Li-xx (Li-ion or Li-poly) / Ni-xx (NiMH or NiCd), default is Li-xx.
3. Low Voltage Protection Mode (Cut-Off Mode): Soft Cut-Off (Gradually reduce the output power) or Cut-Off (Immediately stop the output power). Default is Soft Cut-Off.
4. Low Voltage Protection Threshold (Cut-Off Threshold): Low / Medium / High, default is Medium.
   - When NOT using balance discharge monitoring and protection function (i.e. Not plugging the balance charge connector into the BDM socket on the Guard series ESC, the ESC only monitors the voltage of the whole battery pack)
     1. For lithium batteries, the number of battery cells is calculated automatically. Low / medium / high cutoff voltage for each cell is: 2.6V/2.85V/3.1V. For example: For a 3 cells lithium pack, when "Medium" cutoff threshold is set, the cut-off voltage will be: 2.85V*3=8.55V.
     2. For nickel batteries, low / medium / high cutoff voltages are 0%/45%/60% of the startup voltage (i.e. the initial voltage of battery pack), and 0% means the low voltage protection function is disabled. For example: For a 10 cells NiMH battery, fully charged voltage is 1.44*10=14.4V, when "Medium" cut-off threshold is set, the cut-off voltage will be:14.4V*65%=9.5V.
   - When using balance discharge monitoring and protection function (i.e. Plugging the balance charge connector on battery pack into the BDM socket on the Guard series ESC, the ESC monitors not only the voltage of the whole battery pack but also the voltage of each cell). For lithium battery, low / medium / high cut off voltage for each cell is: 2.6V/2.85V/3.1V. When the voltage of any cell in battery pack is lower than the cut-off threshold, the protection function is activated.
5. Startup Mode: Normal / Soft / Super-Soft, default is Normal. Normal is preferred for fixed-wing aircraft. Soft or Super-soft are preferred for helicopters. The initial acceleration of the Soft and Super-Soft modes are slower in comparison, usually taking 1 second for Soft startup or 2 seconds for Super-Soft startup from initial throttle advance to full throttle. If the throttle is closed (throttle stick moved to bottom) and opened again (throttle stick moved to top) within 3 seconds of the initial startup, the restart-up will be temporarily changed to normal mode to get rid of the chances of a crash caused by slow throttle response. This special design is very suitable for aerobatic flight when quick throttle response is needed.
6. Timing: Low / Medium / High, default is Low. Note2
   Usually, low timing value can be used for most motors. We recommend the Low timing value for 2 poles motor and Medium timing value for motors with more than 6 poles to get a high efficiency. For higher speed, High timing value can be chosen.

Note 2: After changing the timing setting, please test your RC model on ground prior to flight!

Begin To Use Your New ESC
Please start the ESC in the following sequences:
1. Move the throttle stick to the bottom position and then switch on the transmitter.
2. Connect the battery pack to the ESC, the ESC begins the self-test process, a special tone “J 123” is emitted, which means the voltage of the battery pack is in normal range, and then N “beep” tones will be emitted, means the number of lithium battery cells.
   Finally a long “beep------” tone will be emitted, which means self-test is OK, the aircraft/helicopter is ready to go flying.
   - If nothing is happened, please check the battery pack and all the connections;
3. **VERY IMPORTANT!** Because different transmitter has different throttle range, we strongly suggest you using the “Throttle Range Setting Function” to calibrate throttle range. Please read the instruction on page 4—-Throttle Range Setting”.

### Alert Tone
1. Input voltage is abnormal: The ESC begins to check the voltage when the battery pack is connected, if the voltage is not in the acceptable range, such an alert tone will be emitted: “beep-beep-, beep-beep-beep-beep-beep-” (Every “beep-beep-” has a time interval of about 1 second.)
2. Throttle signal is abnormal: When the ESC can’t detect the normal throttle signal, such an alert tone will be emitted: “beep-, beep-, beep-” (Every “beep-” has a time interval of about 2 seconds)
3. Throttle stick is not in the bottom position: When the throttle stick is not in bottom (lowest) position, a very rapid alert tone will be emitted: “beep-, beep-, beep-" (Every “beep-” has a time interval of about 0.25 second.)

### Protection Function
1. Abnormal start up protection: If the motor fails to start within 2 seconds of throttle application, the ESC will cut-off the output power. In this case, the throttle stick MUST be moved to the bottom again to restart the motor. (Such a situation happens in the following cases: The connection between ESC and motor is not reliable, the propeller or the motor is blocked, the gearbox is damaged, etc.)
2. Over-heat protection: When the temperature of the ESC is over 110 Celsius degrees, the ESC will reduce the output power.
3. Throttle signal loss protection: The ESC will reduce the output power if throttle signal is lost for 1 second, further loss for 2 seconds will cause its output to be cut-off completely.

### Program Example
Setting “Start Mode” to “Super-Soft”, i.e. value #3 in the programmable item #5

<table>
<thead>
<tr>
<th>1. Enter Program Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch on transmitter, move throttle stick to top position, connect battery pack to ESC, wait for 2 seconds, “beep-beep” tone should be emitted. Then wait for another 5 seconds, special tone like ‘ahrungen’ should be emitted, which means program mode is entered.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Select Programmable Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Now you’ll hear 8 tones in a loop. When a long “beep------” tone is emitted, move throttle stick to bottom to enter the “Start Mode”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Set Item Value (Programmable Value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>“beep-”, wait for 3 seconds; “beep-beep-”, wait for another 3 seconds; then you’ll hear “beep-beep-beep”, move throttle stick to top position, then a special tone “ahrungen” is emitted, now you have set the “Start Mode” item to the value of “Super-Soft”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Exit Program Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>After the special tone “ahrungen”, move throttle stick to bottom within 2 seconds.</td>
</tr>
</tbody>
</table>

### Trouble Shooting

<table>
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<tr>
<th>Trouble</th>
<th>Possible Reason</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>After power on, motor does not work, no sound is emitted</td>
<td>The connection between battery pack and ESC is not correct</td>
<td>Check the power connection. Replace the connector.</td>
</tr>
<tr>
<td>After power on, motor does not work, such an alert tone is emitted: “beep-beep-, beep-beep-beep-beep-beep-&quot; (Every “beep-beep-” has a time interval of about 1 second)</td>
<td>Input voltage is abnormal, too high or too low. The balance charge connector is not located properly in BDMP adapter.</td>
<td>Check the voltage of battery pack. Check the connection of the balance charge connector and the BDMP adapter.</td>
</tr>
<tr>
<td>After power on, motor does not work, such an alert tone is emitted: “beep-, beep-, beep-” (Every “beep-” has a time interval of about 2 seconds)</td>
<td>Throttle signal is irregular</td>
<td>Check the receiver and transmitter. Check the cable of throttle channel</td>
</tr>
<tr>
<td>After power on, motor does not work, such an alert tone is emitted: “beep-, beep-, beep-” (Every “beep-” has a time interval of about 0.25 second)</td>
<td>The throttle stick is not in the bottom (lowest) position</td>
<td>Move the throttle stick to bottom position</td>
</tr>
<tr>
<td>After power on, motor does not work, a special tone “ahrungen” is emitted after 2 beep tone (beep-beep-)</td>
<td>Direction of the throttle channel is reversed, so the ESC has entered the program mode</td>
<td>Set the direction of throttle channel correctly</td>
</tr>
<tr>
<td>The motor runs in the opposite direction</td>
<td>The connection between ESC and motor need to be changed.</td>
<td>Swap any two wire connections between ESC and motor</td>
</tr>
<tr>
<td>The motor stop running while in working state</td>
<td>Throttle signal is lost</td>
<td>Check the receiver and transmitter. Check the cable of throttle channel</td>
</tr>
<tr>
<td></td>
<td>ESC has entered Low Voltage Protection mode</td>
<td>Land RC model as soon as possible, and then replace the battery pack</td>
</tr>
<tr>
<td></td>
<td>Some connections are not reliable</td>
<td>Check all the connections: battery pack connection, throttle signal cable, motor connections, etc.</td>
</tr>
<tr>
<td>Random stop or restart or irregular working state</td>
<td>There is strong electro-magnetic interference in flying field.</td>
<td>Reset the ESC to resume normal operation. If the function could not resume, you might need to move to another area to fly.</td>
</tr>
</tbody>
</table>
Normal startup procedure:

- Move throttle stick to bottom and then switch on transmitter.
- Connect battery pack to ESC, special tone like “J123” means power supply is OK.
- Several “beep-” tones should be emitted, presenting the number of lithium battery cells.
- When self-test is finished, a long “beep-----” tone should be emitted.
- Move throttle stick upwards to go flying.

Throttle range setting: (Throttle range should be reset whenever a new transmitter is being used)

- Switch on transmitter, move throttle stick to top.
- Connect battery pack to ESC, and wait for about 2 seconds.
- “Beep-Beep-” tone should be emitted, means throttle range highest point has been correctly confirmed.
- Move throttle stick to the bottom, several “beep-” tones should be emitted, presenting the number of battery cells.
- A long “Beep-” tone should be emitted, means throttle range lowest point has been correctly confirmed.

Program the ESC with your transmitter (4 Steps):

1. Enter program mode.
2. Select programmable items.
3. Set item’s value (Programmable value).
4. Exit program mode.

1. Enter program mode
   1) Switch on transmitter, move throttle stick to top, connect the battery pack to ESC
   2) Wait for 2 seconds, the motor should emit special tone like “beep-beep-”.
   3) Wait for another 5 seconds, special tone like “Jisjis” should be emitted, which means program mode is entered.

2. Select programmable items:
   After entering program mode, you will hear 8 tones in a loop with the following sequence. If you move the throttle stick to bottom within 3 seconds after one kind of tones, this item will be selected.
   1. “beep” brake (1 short tone)
   2. “beep-beep-” battery type (2 short tone)
   3. “beep-beep-beep-” cutoff mode (3 short tone)
   5. “beep-----” startup mode (1 long tone)
   6. “beep-----beep-” timing (1 long 1 short)
   7. “beep-----beep-beep-” set all to default (1 long 2 short)
   8. “beep-----beep-----” exit (2 long tone)

Note: 1 long “beep-----” = 5 short “beep-”

3. Set item value (Programmable value):
   You will hear several tones in loop. Set the value matching to a tone by moving throttle stick to top when you hear the tone, then a special tone “Jisjis” emits, means the value is set and saved. (Keeping the throttle stick at top, you will go back to step 2 and you can select other items; Moving the stick to bottom within 2 seconds will exit program mode directly.)

<table>
<thead>
<tr>
<th>Items</th>
<th>“beep-” 1 short tone</th>
<th>“beep-beep-” 2 short tones</th>
<th>“beep-beep-beep-” 3 short tones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake</td>
<td>Off</td>
<td>On</td>
<td></td>
</tr>
<tr>
<td>Battery type</td>
<td>Li-Ion / Li-poly</td>
<td>NiMH / NiCd</td>
<td></td>
</tr>
<tr>
<td>Cutoff mode</td>
<td>Soft-Cut</td>
<td>Cut-Off</td>
<td></td>
</tr>
<tr>
<td>Cutoff threshold</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>Start mode</td>
<td>Normal</td>
<td>Soft</td>
<td>Super soft</td>
</tr>
<tr>
<td>Timing</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
</tr>
</tbody>
</table>

4. Exit program mode
   There are 2 ways to exit program mode:
   1. In step 3, after special tone “Jisjis”, please move throttle stick to the bottom position within 2 seconds.
   2. In step 2, after tone “beep-----beep-----” (i.e. The item #8), move throttle stick to bottom within 3 seconds.
How to enter the programming mode of the Dynam’s brushless ESC with the Dynam 2.4Ghz radio system:

(Warning: Please disconnect the motor from the ESC before starting the following procedure)

1) Turn on the transmitter, then connect battery to the receiver, let the normal auto binding process completed. (Both LED lights on transmitter and receiver should flash rapidly at the same time for this process to succeed)
2) Disconnect the receive power; **do not turn off the transmitter.**
3) Move the throttle stick to the top position.
4) Toggle the safety switch (on the upper left hand corner of the transmitter). Then make sure the safety switch is at the off position (the tip of the switch is set toward the back of the transmitter)
5) Connect battery to the receiver; now you are ready to enter the programming mode (please see the ESC manual for programming instruction).
6) If unable to enter the programming mode, please repeat the above procedure again.
Install the Transmitter Batteries

Install 8 new “AA” batteries in the included transmitter. Check the power level of the batteries and operation of the transmitter by switching the power switch on (upward). The status LEDs at the top of the transmitter will indicate the power level of the batteries. If at any time the status LEDs no longer show green, it will be necessary to replace the batteries with new ones.
Sbach-01  Cowl
Sbach-02  Fuselage
Sbach-03  wing set
Sbach-04  Vertical stabilizer
Sbach-05  Elevator
Sbach-06  canopy
Sbach-07  Propeller
Sbach-08  Landing gears set
Sbach-09  spinner
Sbach-10  Blade folder
Sbach-11  BM3715-KV900
Sbach-12  Push rod
DYT-2002  Transmitter
DY-3001  Quick-controller
DYAT-008  Servo Horn
DYE-1017  50A ESC
DY-6014  14.8V 2200mAh 25C LiPo Battery
DY-1007  9g Servo
DY-3003  Glue
DYR-2001  2.4G Receiver
Sbach-13  DECAL
**Fiper J3 Cub**

- **Wingspan:** 1245mm (49in)
- **Overall Length:** 850mm (33in)
- **Wing Loading:** 43.9g/dm²
- **Servo:** 9g x 4pcs
- **Battery:** 11.1V 2200mAh Li-Po, 25c
- **Speed Controller:** 30A brushless
- **Motor Size:** 1100kv Brushless Outrunner
- **Flying Weight:** 1000g (35.3oz)

**Spitfire**

- **Wingspan:** 1200mm (47in)
- **Overall Length:** 1010mm (40in)
- **Wing Loading:** 40.5g/dm²
- **Servo:** 9g x 4pcs
- **Battery:** 11.1V 2200mAh Li-Po, 20c
- **Speed Controller:** 30A brushless
- **Motor Size:** 850Kv Brushless Outrunner
- **Flying Weight:** 1150g (40.6oz)

**AT-6 Texan**

- **Wingspan:** 1370mm (54in)
- **Overall Length:** 895mm (35.2in)
- **Wing Loading:** 44.6g/dm²
- **Servo:** 9g x 4pcs
- **Battery:** 11.1V 2200mAh Li-Po, 25c
- **Speed Controller:** 30A Brushless
- **Motor Size:** 900Kv Brushless Outrunner
- **Flying Weight:** 1250g (44.2oz)
More new RC Warbird from Dynam......

Categories

- Airplanes
  - Trainer
  - Warbirds
  - Sports
  - Scales
  - Ducted Fan Planes
  - Glider
- Helicopters
- Rc Electronics
- Power Systems
- Rotor Blade
- Accessories

New Products

- Sbach 342 1250mm
- AT-6 Texan
- E-razor 250 carbon edition
- Spitfire 1200mm
- T-28 Trojan red
- Spitfire 900mm v2