

H·KING



PARAMOTOR **P113**
INSTRUCTION MANUAL

**Please read the manual carefully
before operating this model.**

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The HobbyKing™ Paramotor is extremely easy to fly due to its very gentle and stable flight characteristics yet once you are used to it, it will perform loops and rolls with ease. Due to the design, the huge high performance 2250mm wing opens quickly for easy launching and it will retain its shape even in turbulence. The single skin durable wing is made from 100% ripstop fabric and comes pre-rigged with tough nylon chords and ready to attach to the durable aluminum gondola.

There is a high level of prefabrication so assembly time is minimal and it is Plug-N-Fly so all you require is your own transmitter, receiver and battery. The Paramotor is fitted with a powerful 3530-1400KV brushless motor swinging a 10 x 4.7 propeller, it also has a 50 amp electronic speed controller with 5 amp BEC and 2 powerful 15kg high torque metal geared servos. A 3S lipoly battery is recommended and it can vary in capacity to suit different flying conditions. The recommended flying weight is 1.6~2.0kg, in light wind conditions it is best to put a lighter battery in to keep near the 1.6kg weight. In windy conditions it is better to put a heavier battery in to fly around the 2kg mark. The undercarriage is easily removed for hand launching and catching and also for slope soaring.

If you fancy trying something a little different then the HobbyKing™ Paramotor is for you. Great fun to fly without being too challenging and it looks great in the air. Pre-assembled and Plug N Fly also means you can be airborne very quickly after taking delivery.

Features:

- High performance parawing
- Plug and Fly format (you only require a Tx, Rx and battery)
- High level of prefabrication for quick assembly
- Gentle flight characteristics, however it can perform loops and rolls
- Removable undercarriage for slope soaring etc
- Durable aluminum airframe
- Wide flying weight range (1.6~2kg)

Specs:

Type: Plug-N-Fly Paramotor

Parawing Span: 2250mm

Motor: 3530-1400KV brushless

Propeller: 10x4.7

ESC: 50amp

BEC: 5amp

Servos: 2 x 15kg high torque metal geared Flying Weight: 1.6~2kg

Recommended Battery: 3S lipoly (not supplied)

Required:

- 1 x 3ch or more computer transmitter with the ability to mix channels and set control curves
- 1 x 3ch or more receiver
- 1 x 3S (11.1v) lipoly battery and charger



WARNING! FIRE HAZARD!

NEVER USE CHARGER UNSUPERVISED!

- Batteries pose a SEVERE risk of fire if not properly handled.
- Read Entire operation manual before using charger.
- This unit may emit heat during use.
- Only operate this device in a cool ventilated area away from flammable objects.
- Failure to observe safety procedures may cause damages to property or injury.

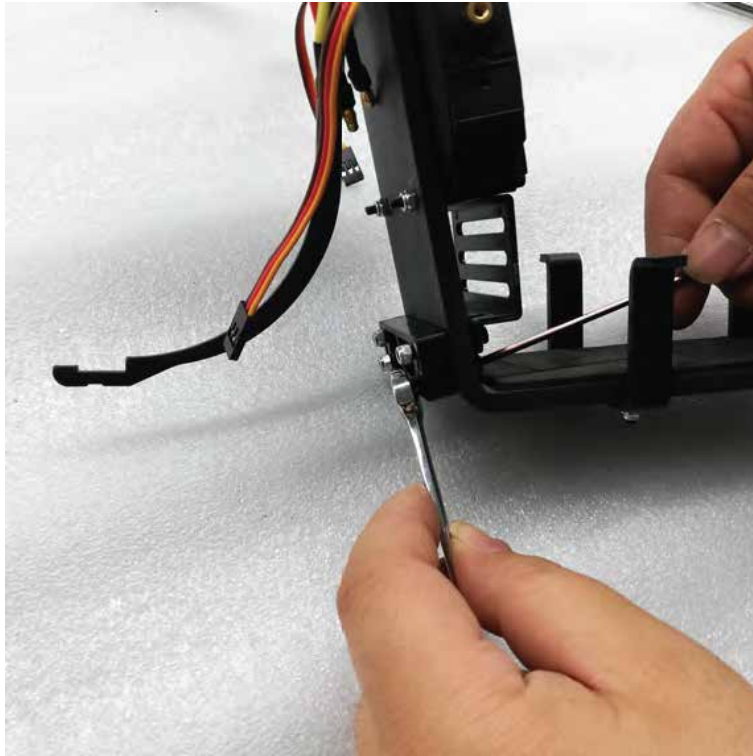
Warnings and Safety notes

- Keep the charger away from children and pets at all times.
- Never leave the charger unsupervised when charging or discharging.
If you leave, disconnect the battery to prevent any unexpected dangers or damage.
- Ensure the charger program and settings match the battery pack otherwise the battery will be damaged and a dangerous situation may arise, especially for Lithium batteries, which may cause a fire.
- Do not mix batteries of different types, different capacities or from different manufacturers.
- Do not disassemble the charger.
- Do not place the charger or any battery on flammable surface or near a combustible material while in use.
- Do not Charge or discharge on a carpet, cluttered workbench, paper, plastic, vinyl, leather or wood, inside an R/C model or inside a full sized automobile.
- Never block the air intake holes and never use in a refrigerated or high temperature environment. If used in such an environment, the internal temperature protection may result in abnormal charging/discharging that could be dangerous.
- Do not allow water, moisture, metal wires or other conductive material into the charger. Never charge or discharge any battery having evidence of leaking, expansion/swelling. Damaged outer cover or case, color-change or distortion.
- Do not try to charge "non-rechargeable" dry cells.
- Do not exceed the battery manufacturer's suggested maximum charge rates
- Carefully follow the battery pack manufacturer's recommendations and safety advice.

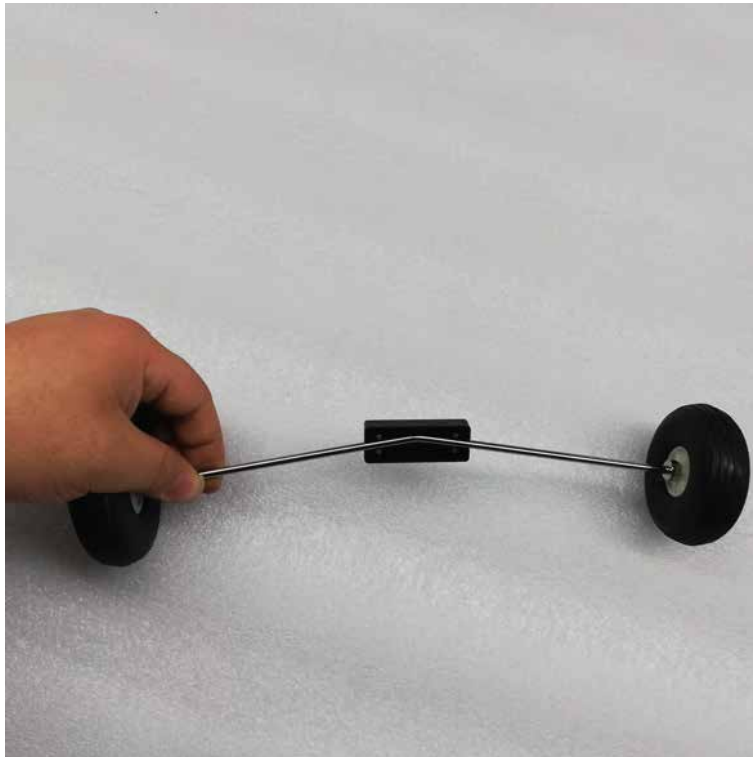
Contents of Kit



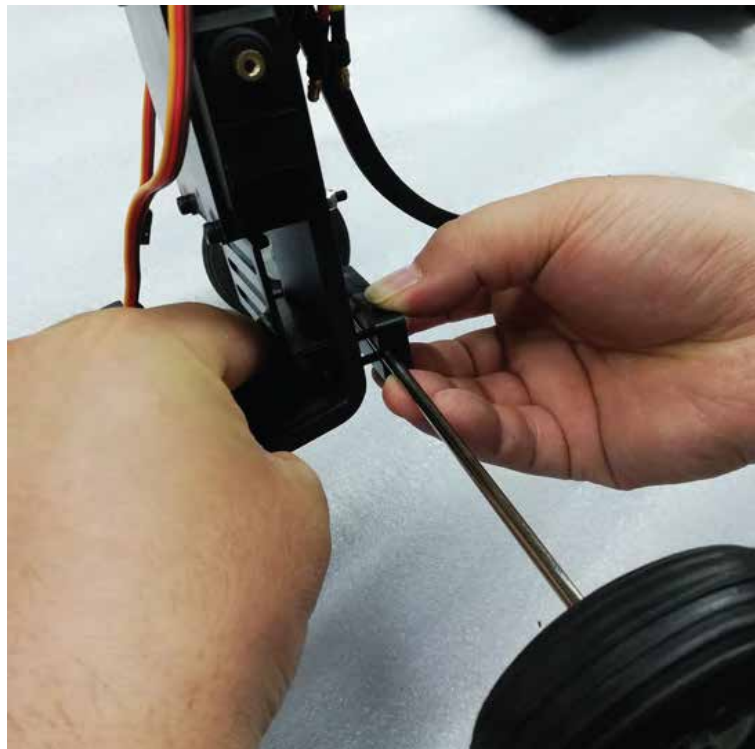
General Assembly



Step 1: Remove the undercarriage retaining bracket.



Step 2: Fit the retaining bracket over the undercarriage wire.



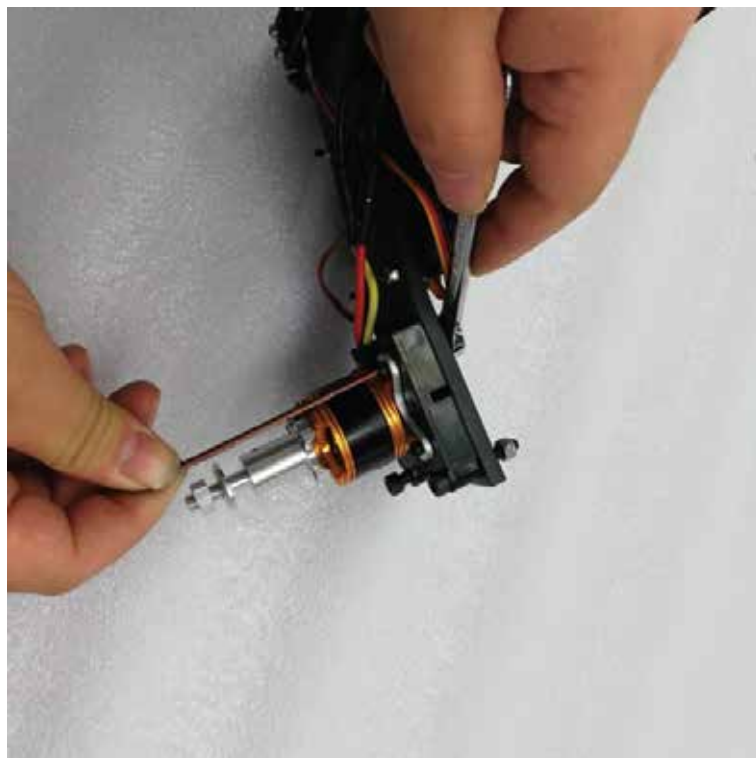
Step 3: Using the hex head screws refit the undercarriage bracket with the undercarriage wire positioned between the bracket and the base of the airframe.



Step 4: Refit the nyloc nuts and tighten the assembly.



Step 5: At this point we need to remove the motor and motor mount. The reason for this is that the the aluminum propguard supporting arms have to be installed behind the mount.

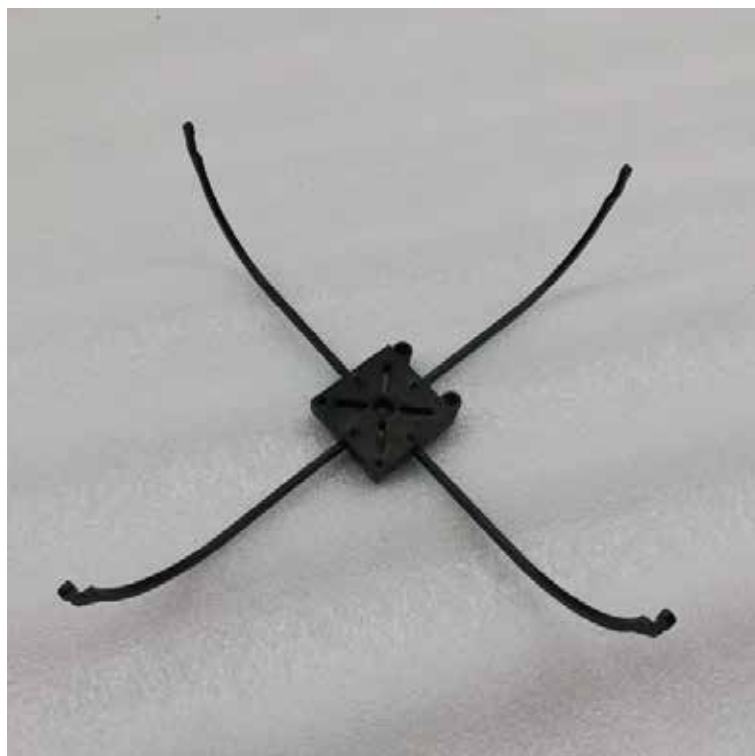




Step 6: Push the hex screws through and remove motor and motor mount completely, this makes fitting the supports easier.



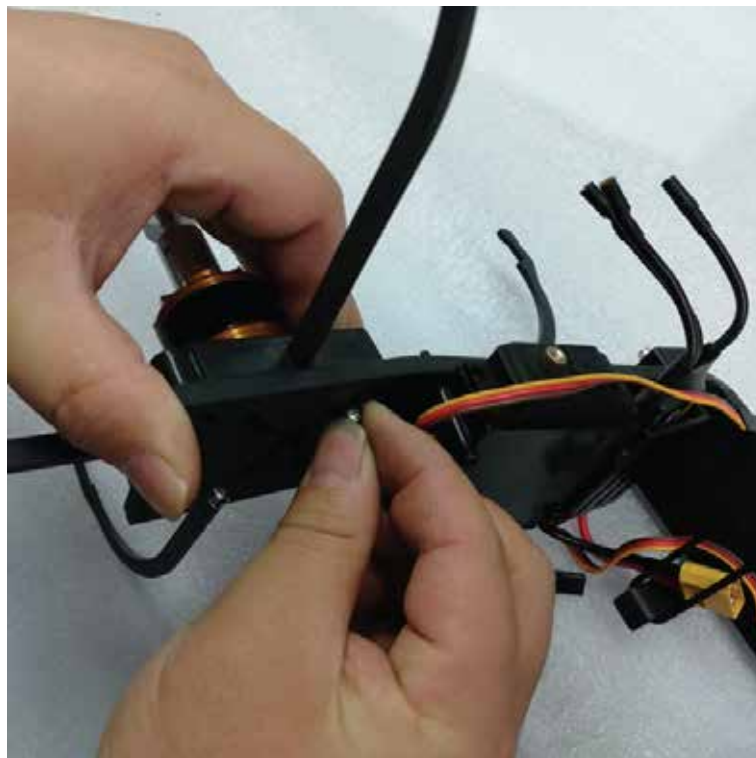
Step 7: Clip the 4 prop guard support arms into the slots in the rear of the motor mount. These can be quite a tight fit so you may need to squeeze them fully home with a pair of pliers or similar tool.



Assembly should look like this when all 4 are clipped into position.



Step 8: As the following pictures show refit the motor and motor mount clamping the prop guard supports between the airframe and the motor mount.





Step 9: Fit the flybar to the front of the airframe using the longer bolts through the top holes of the motor mount.



Note: Do not tighten the nuts until you have all 8 bolts through the mount and frame.

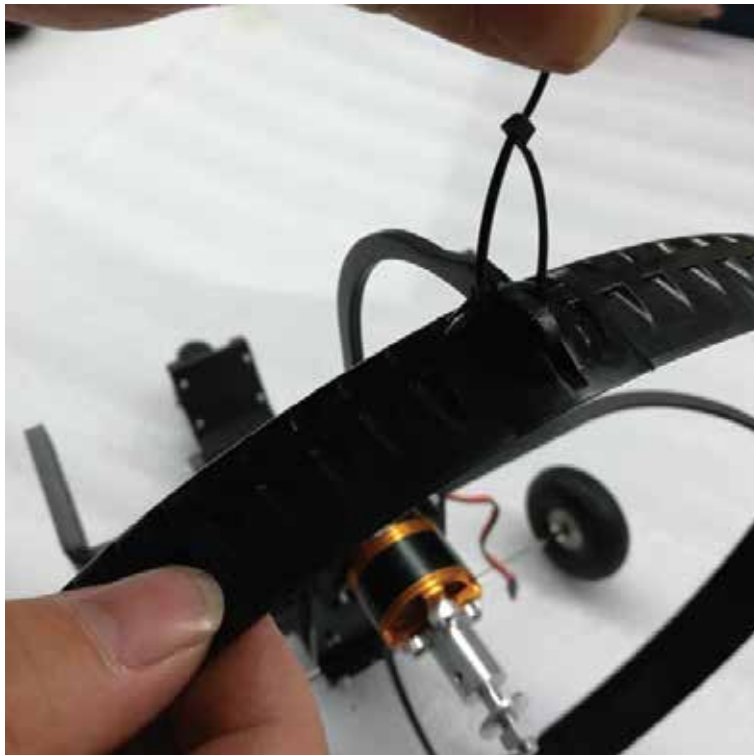


Note: The prop guard is aerofoiled, please ensure you fit it the correct way around, see picture above.



Step 10: Clip all 4 of the prop guard supports into the slots on the prop guard.

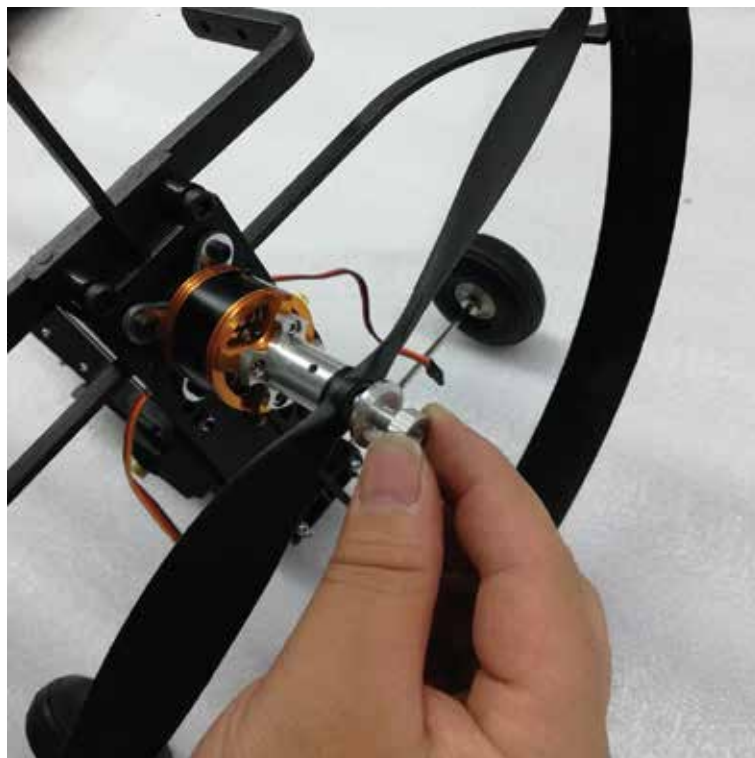




Step 11: Feed a cable tie through the hole in the prop guard where the support clips to the guard.



Do this to all 4 supports and tighten the cable ties to secure the prop guard. Make sure you remove the excess length of cable tie once tightened.



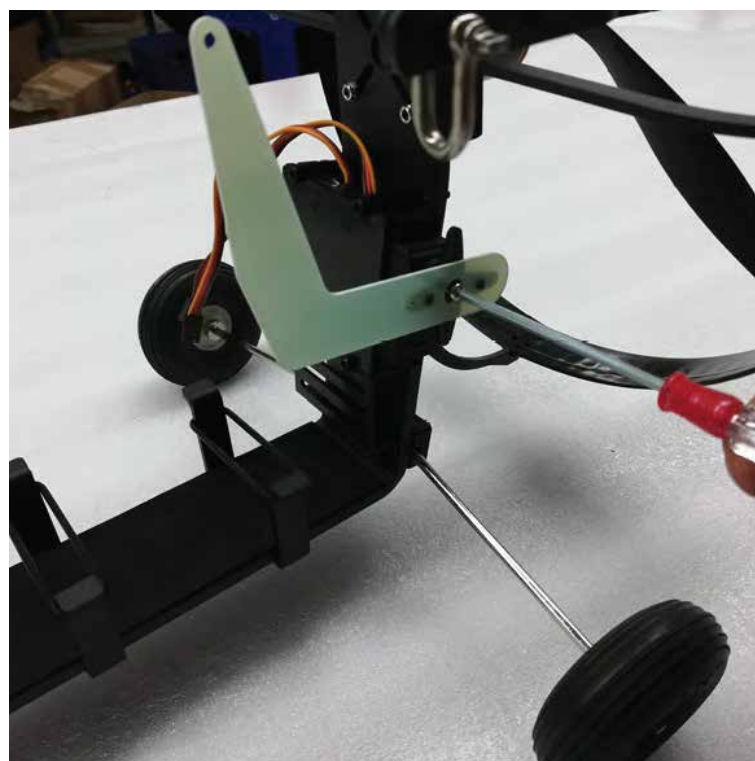
Step 12: Fit the propeller assembly, please ensure you fit the prop the correct way round as shown above. It is a standard tractor prop so must face forward in the direction of flight.



Step13: Tighten the prop nut using the method shown in the picture above.



Step 14: Fit the shackles through the outer holes either side of the flybar.



Step 15: Set up your radio and connect the servos to the receiver. Power up the receiver and center the roll and pitch servos (watch the set up video before you do this part). Fit the servo arms with the pre-fitted cranks onto the splines of the servos. The top hole of the crank wants to be in line with the top of the flybar or just above. Secure the arms with the supplied servoscrews.



Step 16: Secure your receiver to the servo housing with the sticky back hook and loop tape. Secure and tidy the servo leads and receiver antenna using cable ties.

Radio setup



Ensure the servo travel direction is set according to the picture above

1. Ensure the servo travel direction is set according to the picture above
2. Please setup a new model and bind to the receiver
3. Ensure the propeller is removed
4. Copy of the mixing of the photos below.
5. Connect Throttle to the throttle channel and the left servo to channel 6 and right servo to Ch5





This is the basic airframe finished, the fitting of the Parawing and the setting up of your computer radio is quite involved. We recommend you watch this video on YouTube to achieve the best results for this part of the assembly and for setting the radio up.

<https://www.youtube.com/watch?v=Pb5f8EALSGI&t=781s>

Note: A flying video will be available shortly, check under the video section of this product.

SAFETY INSTRUCTIONS

1. Please read this manual carefully and follow the instructions before you use this product.
2. This Paramotor is not a toy, set up correctly it is suitable for novice pilots. However, if you are a complete novice it is best to try and enlist the assistance of an experienced pilot.
3. Not recommended for children under 14 years old.
4. Please set up this Paramotor according to the instruction videos and make sure you keep your hands and other parts of your body out of the way of the rotating propeller at all times. Failure to do so will result in damage to yourself and to the Paramotor.
5. Do not fly in thunderstorms, strong winds or wet weather.
6. Never fly R/C models where there are overhead power lines, automobiles, airports, railway lines or near a highway.
7. Never fly R/C models where there are crowds of people or over organised games. This Paramotor requires an open field that is clear of trees and other obstacles. Remember safety is the responsibility of the pilot.
8. Do not attempt to catch this model when you are flying it unless you have a lot of experience doing this.
9. The operator will bear the full responsibility of flying and the proper operation and usage of this model. We at Hobbyking will not be responsible for any liability or loss due to improper use of this model.

Recommended Accessories



FrSky Taranis Q X7 Digital Telemetry
Radio System 2.4GHz ACCST (White-
no plugs)

SKU: 236000106-3



FrSky 2.4GHz ACCST TARANIS X9D
PLUS Digital Telemetry Transmitter
(Mode 2) (EU)

SKU: 236000062-0



Futaba 10J 10-Channel 2.4GHz Computer
Radio System w/R3008SB Receiver
(Mode 2)

SKU: 563000059-0



FrSky Horus X12S Accst 2.4GHz
Digital Telemetry Radio System
(Mode 2) (Texture)

SKU: 236000084-3



Turnigy 5000mAh 3S 20C Lipo
Pack w/XT-60

SKU: 9067000276-0



Turnigy Graphene Professional
5200mAh 3S 15C LiPo Pack w/XT60

SKU: 9067000105-0



Rhino 5000mAh 3S 20C Lipo
Pack w/XT60

SKU: 9952000006-0



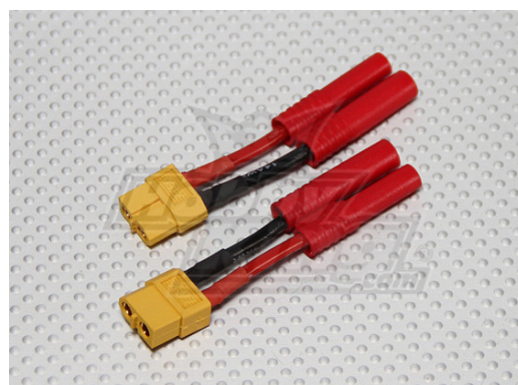
Rhino 5000mAh 3S 50C Lipo Pack w/
XT60

SKU: 9952000016-0



ZIPPY Compact 5000mAh 3s
40c Lipo Pack

SKU: 9067000057-0



HXT 4mm to XT-60 Battery Adapter
(2pcs/bag)

SKU: XT60-HXT4MM



Turnigy Reaktor 250W 10A 1-6S Balance
Charger

SKU: 9466000004-0



Turnigy Accucel-6 80W 10A Balancer/
Charger LiHV Capable

SKU: 9052000071-0



Turnigy P403 LiPoly / LiFe AC/DC
Battery Charger

SKU: 9070000039-1 (EU Plug)
SKU: 9070000039-2 (UK Plug)
SKU: 9070000039-3 (US Plug)
SKU: 9070000039-4 (AU Plug)



Turnigy Reaktor 120 DUO 2x120W
(240W) Balance Charger AC/DC

SKU: 9910000003-1 (EU Plug)
SKU: 9910000003-2 (UK Plug)
SKU: 9910000003-3 (US Plug)
SKU: 9910000003-4 (AU Plug)

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