

SG

Startup Guide



BIG KAHUNA



**STOP AT
NOTHING.**

WWW.HPIRACING.COM



160765-006-SG

Thank you



Thank you for selecting this HPI RACING product!

This kit is designed to be fun to drive and uses top quality parts for durability and performance. The instruction manual you are reading was designed to be easy to follow yet thorough in its explanations. HPI Racing wants you to enjoy driving your new R/C kit. If you come across any problems or need some help getting through a step, you can contact us on the internet at www.hpiracing.com.

This is a high performance R/C kit, and it requires regular maintenance for best performance. If you don't do regular maintenance the performance will suffer. HPI has all the necessary parts and accessories available to keep your car performing at its best.

The caution or attention symbols will warn you about steps that can be very dangerous.

Please read and understand the instructions carefully before proceeding.



Cautions

Failure to follow these instructions can damage your kit, and cause serious bodily injury or death.



Attention

Failure to follow these instructions can cause injury to yourself or others.
You might also cause property damage or damage your kit.



Cautions

- | | |
|-------------------------|---|
| Before Running | Please read manual (with parent, guardian or a responsible adult if necessary). |
| While Operating | <p>Please do not run on a public street, this could cause serious accidents, personal injuries and/or property damage.</p> <p>Please do not run near pedestrians or small children.</p> <p>Please do not run in small or confined areas.</p> |
| Before Operating | <p>Make sure that all screws and nuts are properly tightened.</p> <p>Always use fresh batteries for your transmitter and receiver to avoid losing control of the model.</p> <p>Please confirm the neutral throttle trigger position.</p> |
| After Running | <p>Turn OFF receiver first, then turn OFF transmitter.</p> <p>This will prevent the car from losing control.</p> <p>After running a HPI RACING product, it is necessary to perform routine maintenance. Failure to do this can result in increased wear and damage to the engine and chassis.</p> |
| Battery safety | Please be careful when handling the battery. It will be hot after running. If the wire is frayed, a short circuit can cause a fire. |

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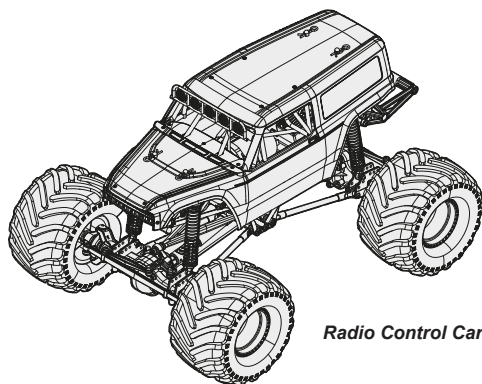
Additional Information

	Quick Start Guide	 + www		Transmitter Manual	 www
	Technical Guide	 + www		ESC Manual	 www
	This Guide	 www		User Guide	 www
 	NOTE - This refers to the relevant guide (as above) and the relevant section. In this example, Section 1-1 of the ESC Manual.				

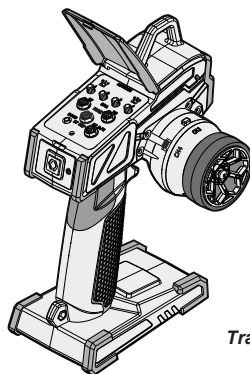
Kit Contents



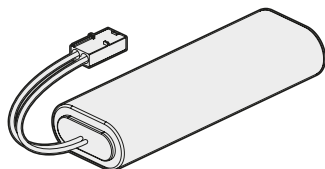
Components



Radio Control Car

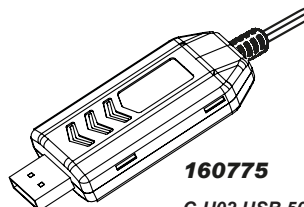


Transmitter



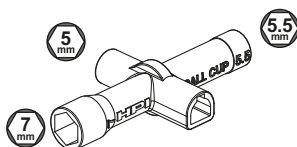
160150

PLAZMA 7.2V 2000mAh BATTERY PACK



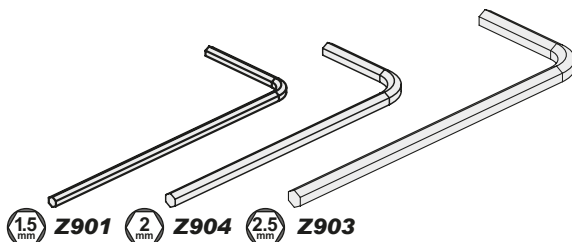
160775

C-U02 USB 500mA
2-8cell NiMH Charger



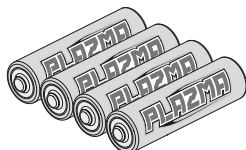
Z950

Cross Wrench



Allen Wrench

Equipment Needed



101939

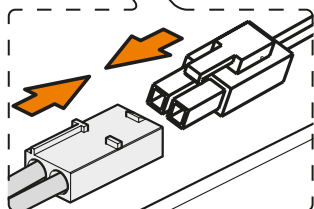
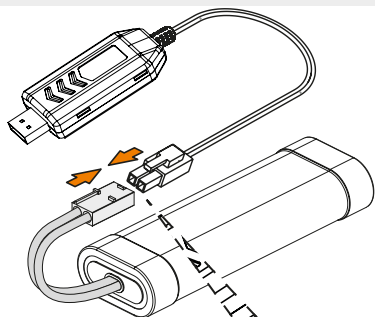
PLAZMA 1.5V Alkaline AA Battery

1 Getting Started



1-1 Charging Car Battery

- 1** Connect the charging socket to the supplied battery packs power plug. The connectors are directional



! Do not force together and always check you have the connection the right way round.

- 2** The charger will automatically start to charge your battery pack. The USB charger will stop charging when it detects the battery pack is at full charge

LED Status



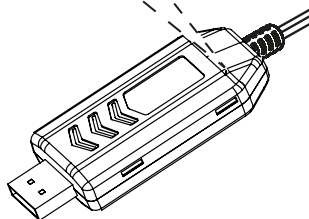
Solid Green: Standby or Charge finished



Red: Charging



Flashing Red: Error



Errors:

Voltage out of charging range - Your battery pack is outside the voltage range of the charger. If this is reoccurring your battery pack may be damaged and need replacing.

Reverse Polarity Protection - Your battery pack has been plugged into the charger with the incorrect polarity.



Caution

The USB Charger requires a USB Adapter with an output of at least 2A



Caution

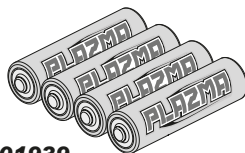
Do not use NiCd/NiMH battery chargers for LiPo batteries. If you do not use a special charger for LiPo batteries, they will be damaged.

1-2 Setting Up Transmitter

1-2-1 Transmitter Battery Installation

- 1 Open battery cover at the bottom of transmitter and install batteries

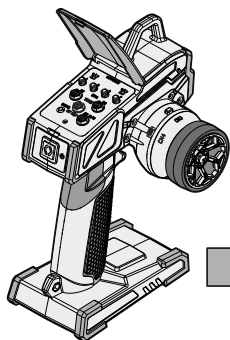
! Do not mix batteries of different ages or types.



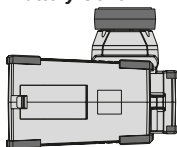
101939

PLAZMA 1.5V Alkaline AA Battery

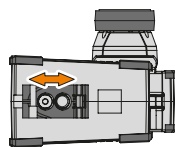
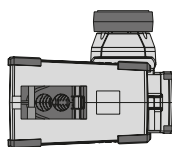
(Not Included)



Battery Cover



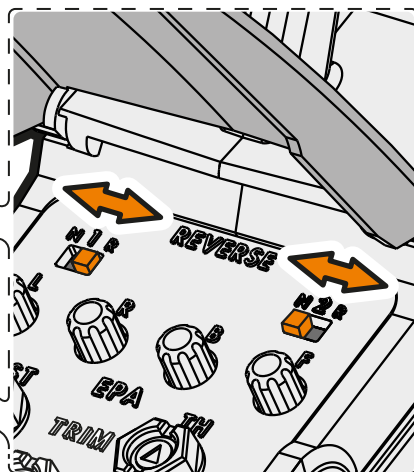
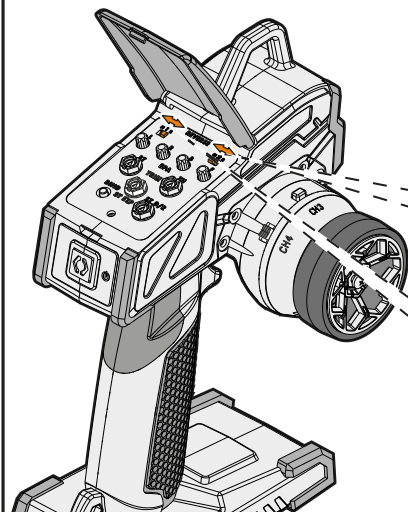
Note Direction.



※ Not Included

1-2-2 Transmitter Preparation

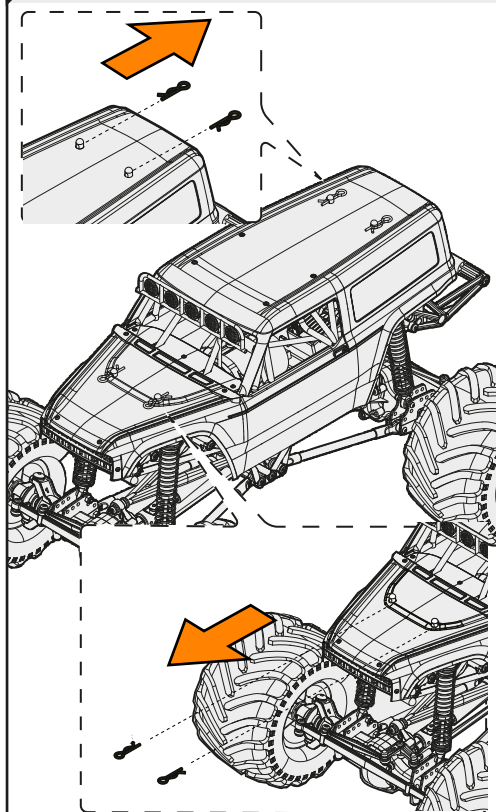
- 1 Check direction of reverse switches



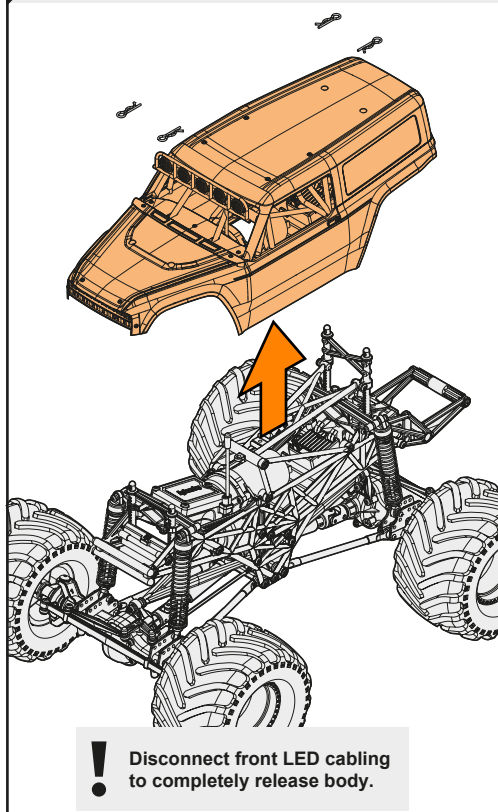
1-3 Preparing the Chassis

1-3-1 Access Battery

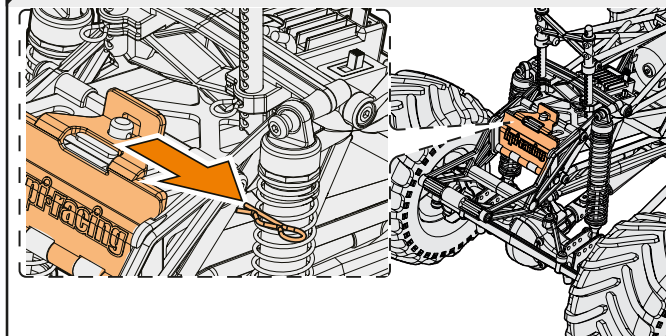
1 Remove 4x body clips.



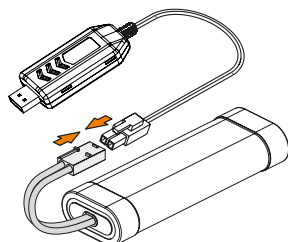
2 Lift off the Body.



3 Remove battery latch clip.

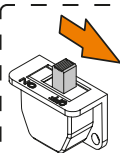


4 If not already done, remove and charge the battery.



1-3-2 Battery Installation

- 1** Make sure car is switched off.



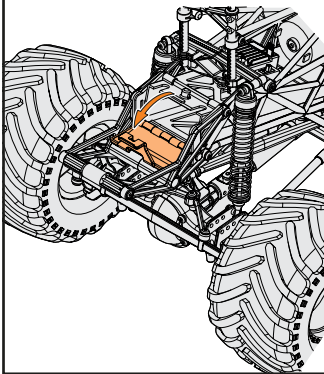
OFF



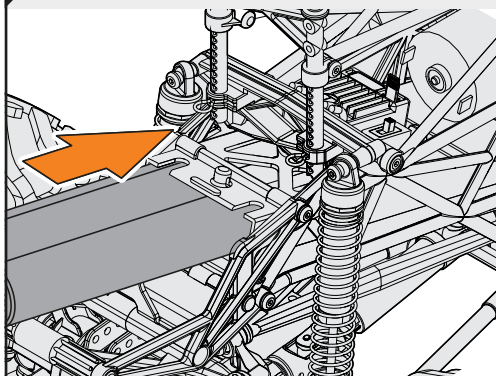
Caution

Make sure receiver is turned OFF before connecting the battery, the vehicle may run out of control.

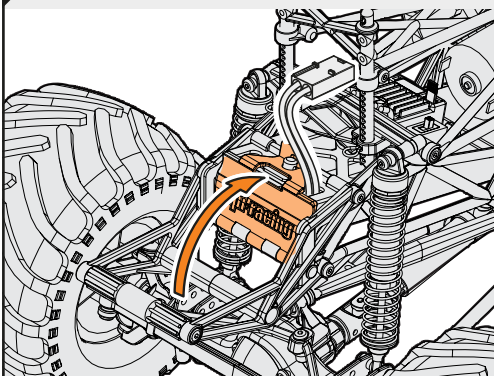
- 2** Open battery latch.



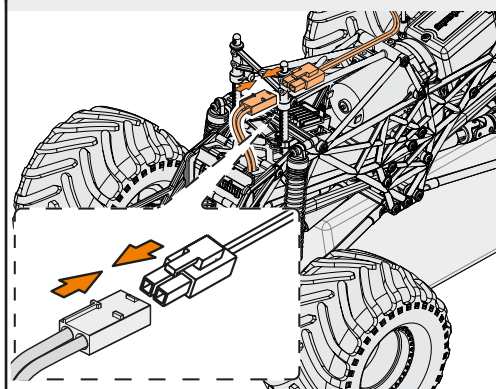
- 23** Slide in CHARGED battery.



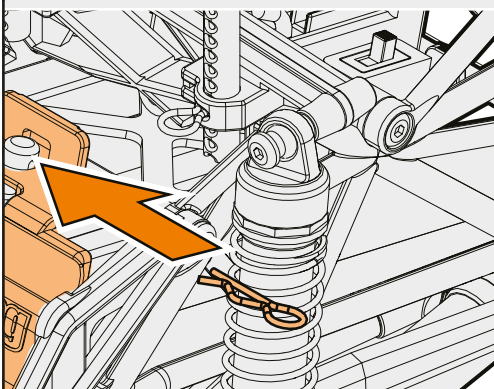
- 4** Close battery latch, ensuring leads are in slot.



- 5** Connect battery.



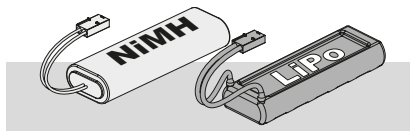
- 6** Re-insert body clip to secure battery door if you will be doing rough driving.



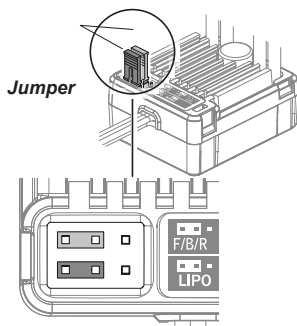
2-1 ESC Setup

2-1-1 Choose Battery Mode

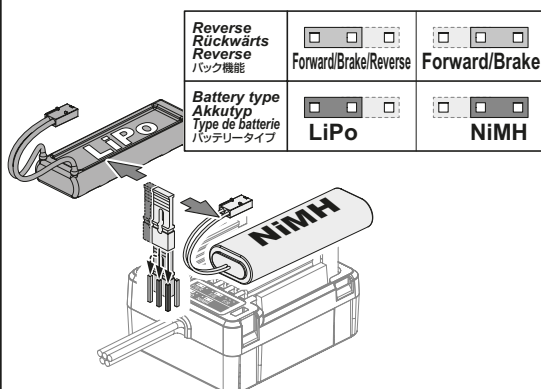
There are two battery modes to choose from (Ni-MH or LiPo). Factory setting is set to Ni-MH mode.



1 The ESC is programmed with the use of jumpers to select setting. (Tweezers are recommended to plug in the jumpers).



2 Select appropriate Battery Mode.

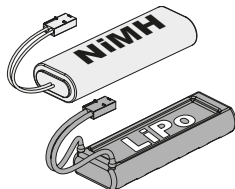


! If the power is cutting off and on (pulsing) while driving, the LiPo battery cutoff has been activated in the speed control. Stop driving the car immediately and recharge or replace the battery

2-1-2 Low voltage cut-off protection

If the voltage of the battery pack is lower than the threshold for 2 second, the ESC will enter the protection mode.

When the car stops, the red LED blinks on the ESC to indicate that the low voltage cut-off protection has been activated.



5-9 cells NiMH Output reduces to 50% at 4.5V. ESC cuts off at 4.0V when battery cannot supply enough voltage.

2S LiPo Output reduces to 50% at 6.5V. ESC cuts off at 6.0V when battery cannot supply enough voltage.

3S LiPo Output reduces to 50% at 9.75V. ESC cuts off at 9.0V when battery cannot supply enough voltage.



Caution

3S Not suitable for 550 Bushed Motor Running

2-2 Binding

Programming a receiver to recognize the code of only one specific transmitter. Binding and fail-safe is pre-set from the factory.



Caution

Any new binding of transmitter & receiver will clear the preset fail safe.

i

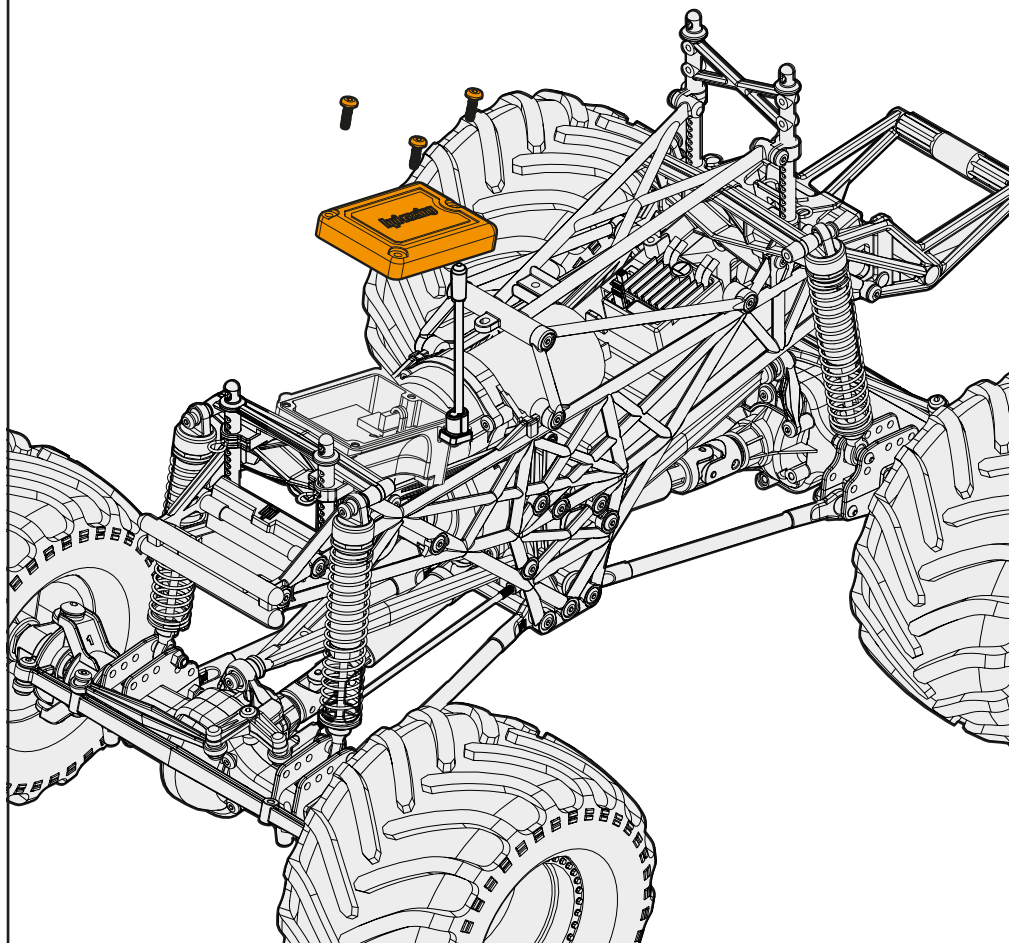
5



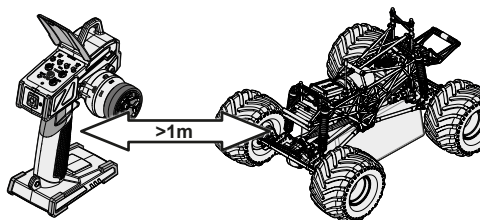
Caution

If you change transmitters or add a receiver, you must re-bind before operating your vehicle.

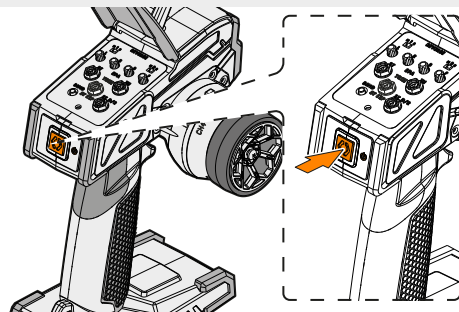
1 You will need access to the receiver. This can be achieved as shown.



- 2** Place the transmitter and the receiver close to each other (within one meter).

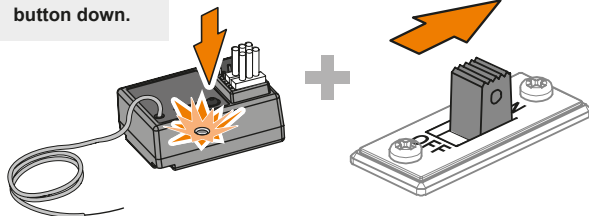


- 3** Turn the power switch on the transmitter to the ON position.



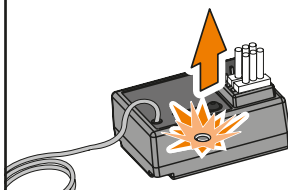
- 4** Press and hold the receiver setup button, then turn the power switch to the ON position. The LED will then flash quickly.

! Hold the button down.

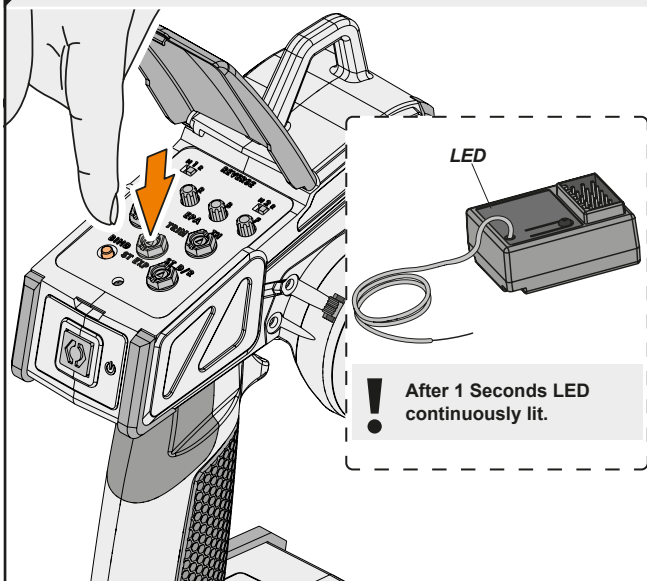


- 5** Release the setup button after 1 second

! After 1 Seconds



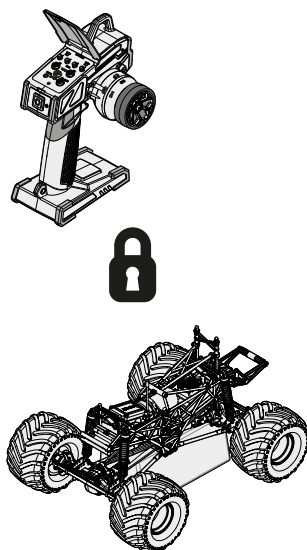
- 6** Press and hold the binding button on the transmitter for 1 second until the LED on the receiver is continuously lit.



LED

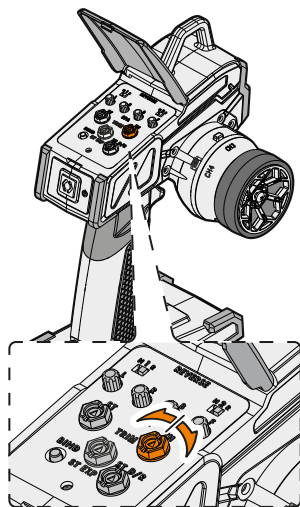
! After 1 Seconds LED continuously lit.

- 7** Binding Complete.

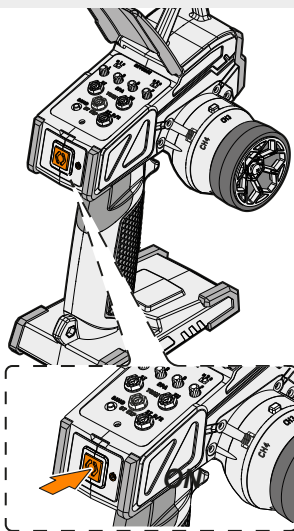


3 Switching On

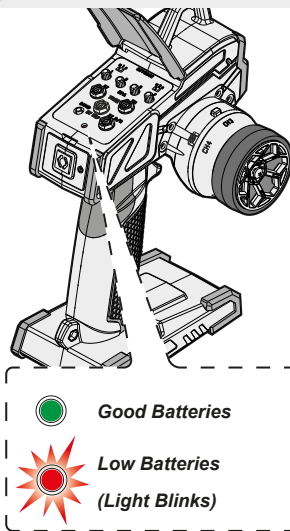
1 Center Throttle Trim



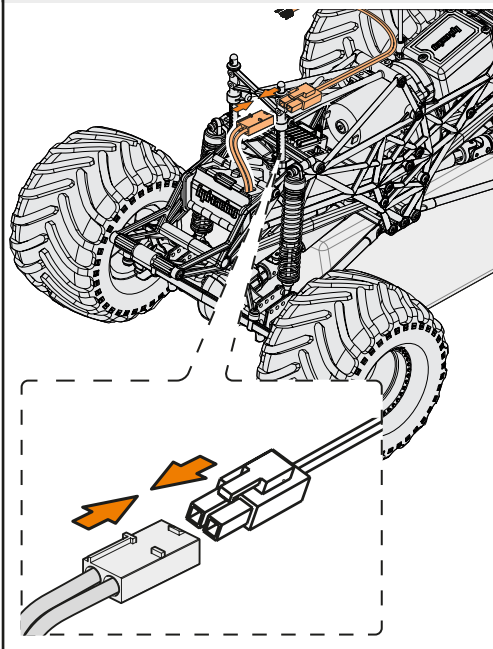
2 Turn on Transmitter



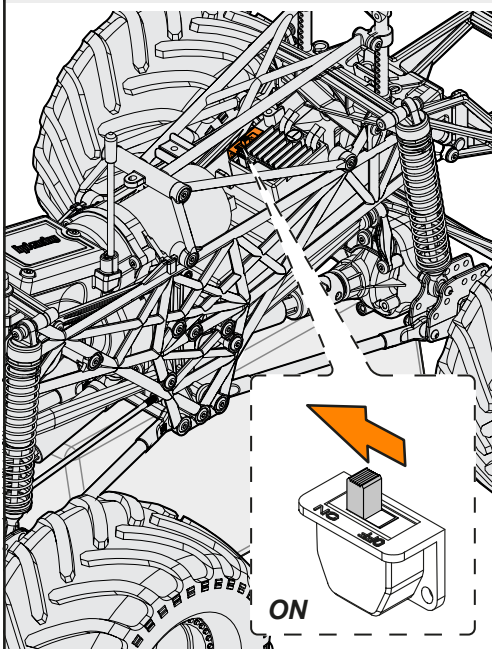
3 Check Batteries



4 Put the car on a stand, and connect battery

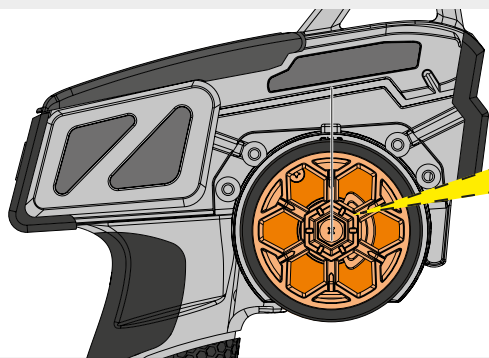


5 Turn on car



6

Leave throttle in mid-position.



! Gashebel nicht berühren

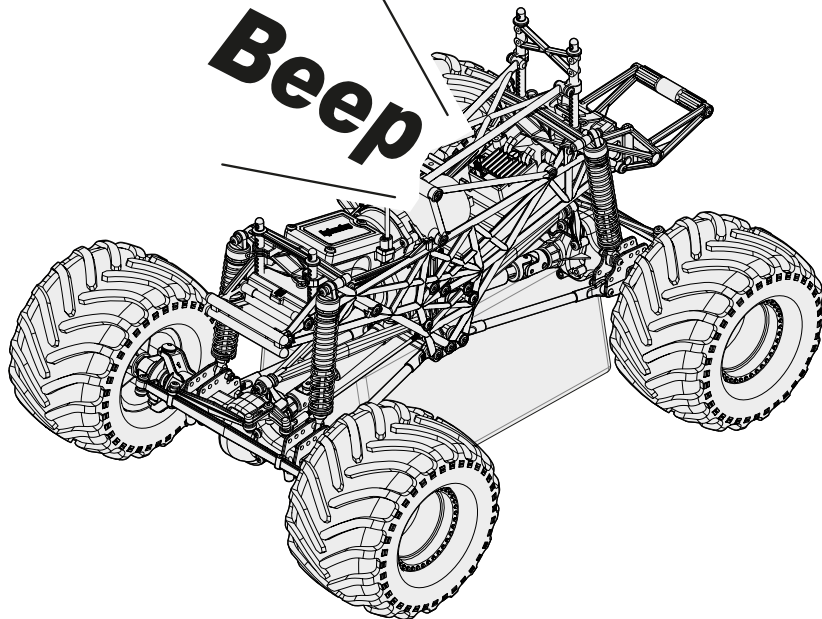
7

If you hear a tone signal, the set-up of the speed control has been completed.

Beep Sound	Meaning
1 kurzer Piepton	Der Akku ist NiMH/NiCd
2 kurze Pieptöne	Der Akku ist 2S LiPo
3 kurze Pieptöne	Der Akku ist 3S LiPo
1 langer Piepton	Selbsttest und Gaswegkalibrierung erfolgreich. Der ESC ist betriebsbereit.



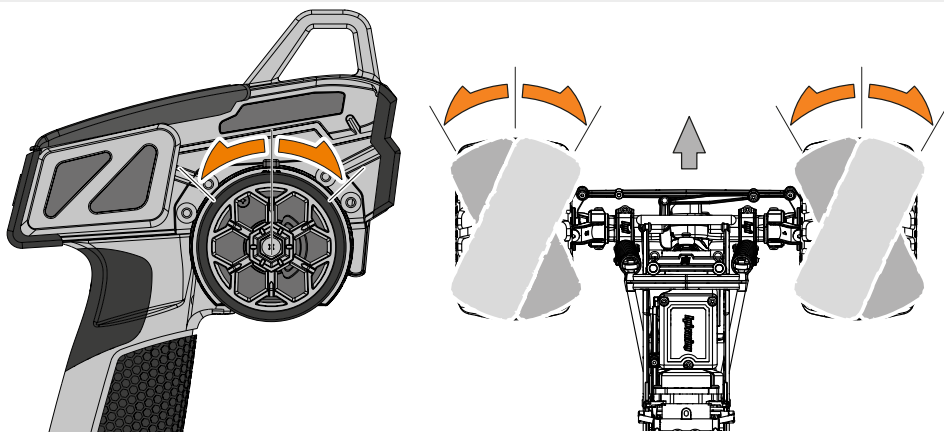
Beep



4 Using the Transmitter

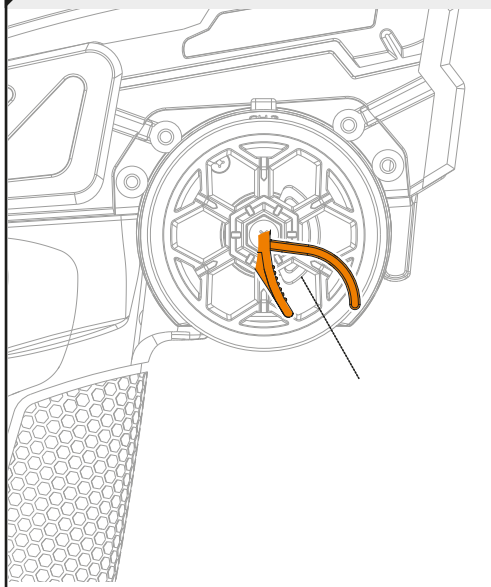
4-2 Steering

- 1** *Steering is normally back = left, forward = right. This is adjustable - see transmitter manual for further information.*

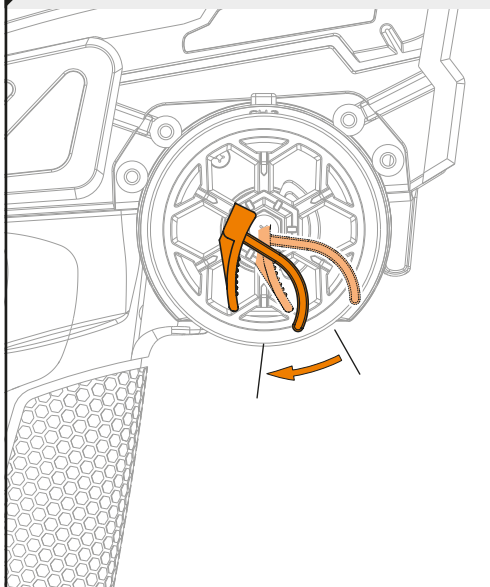


4-2 Acceleration

- 1** *Throttle Trigger - neutral position*

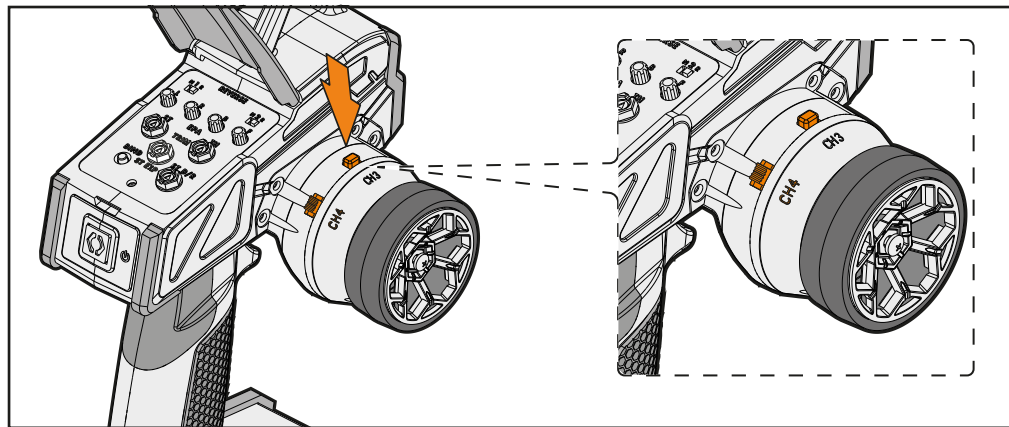


- 1A** *Throttle Trigger - forwards*



4-3 Auxiliary Channels

The TF-51 Transmitter has an auxiliary channel, which can be used for the car's LED lights. To use this channel, switch it on.



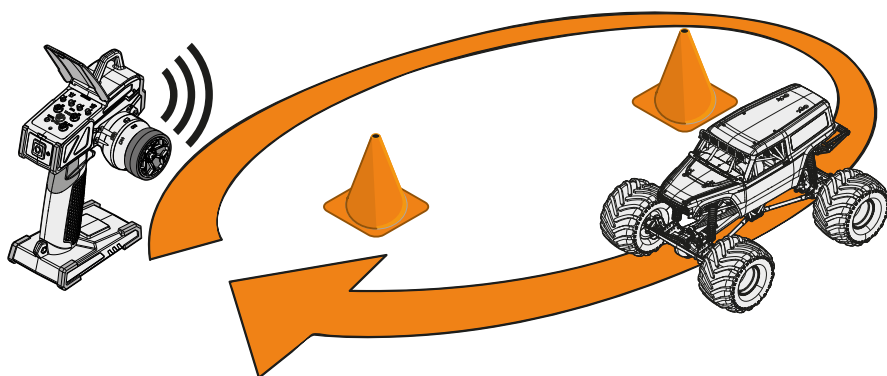
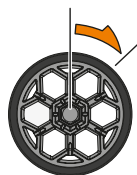
4-4 Practice Turning

Install body and enjoy!

Allow the car to cool down for 15 minutes between each run.

When the car is running toward the driver, the directions of the steering wheel are reversed.

Once you become comfortable driving your RC car, practice driving on a track with cones.



Warnhinweise

Nicht im Wasser oder Sand fahren.

Nicht auf öffentlichen Straßen oder Wegen fahren. Dies kann zu schweren Unfällen, Verletzungen und/oder Sachschäden führen.

5 Fail Safe System



This car has a built-in fail safe system that will stop the car if the radio glitches, either because of interference or if the car goes out of range.

The fail safe system has been setup at the factory, but you should become familiar with the function of the fail safe and check the operation before running.



Cautions

Any new binding of transmitter & receiver will clear the preset fail safe.

Situations when the fail safe will operate. When fail safe is operating, the red LED will continuously flash.

HPI RF-51

When transmitter radio signal is cut off.

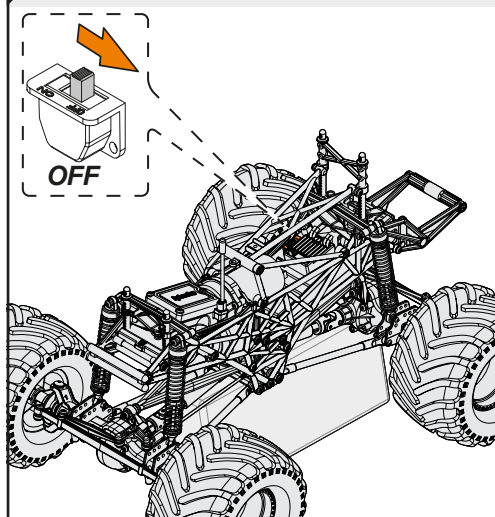


Cautions

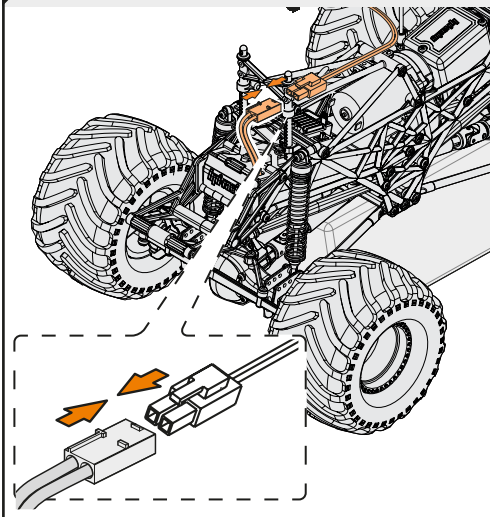
The fail safe cannot completely protect your car.

5-1 Checking Fail Safe

1 Place car on a stand and turn OFF

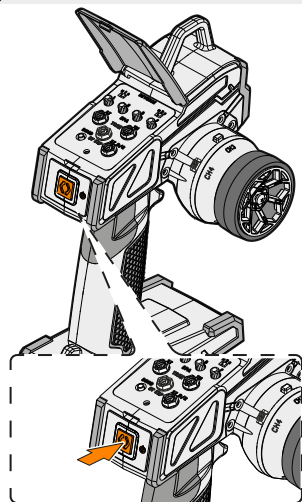


2 Connect Battery



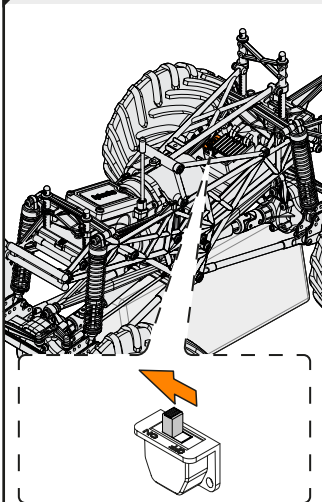
2

Turn on transmitter



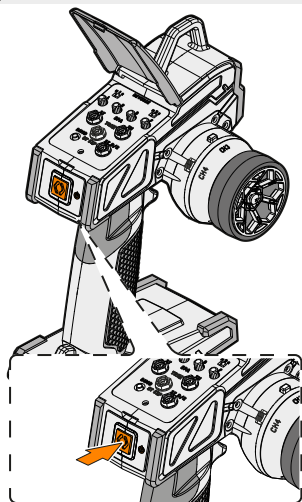
3

Turn on car



4

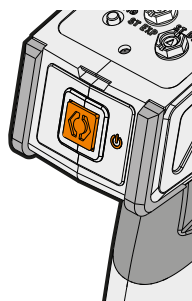
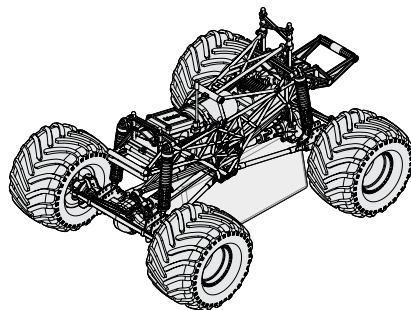
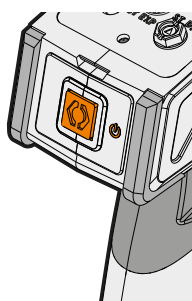
Turn OFF transmitter



5

LED light will flash and vehicle will not move. This means that the fail safe is working properly

To confirm that fail safe is working properly, the ESC will go in to the neutral position and the vehicle will not move when you shut off the transmitter.



LED light will flash and vehicle will not move.



When fail safe is operating, LED light will turn off.



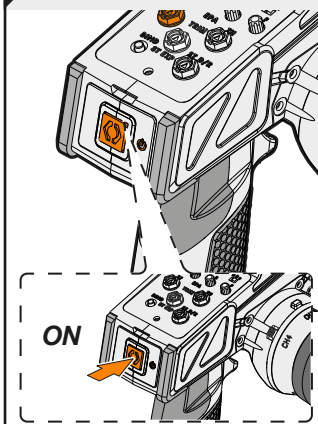
Caution

If the red LED is flashing, the car should be in neutral. The ESC should not be applying throttle, brake or reverse. If car is not in neutral, please perform the fail-safe setup procedure.

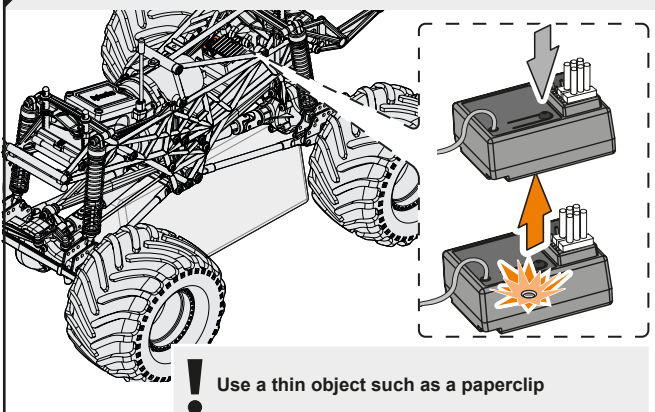
5-2 Fail Safe Setup

The fail safe is setup from the factory, but if it is not functioning as expected, it can be setup using the following steps.

1 Turn on transmitter



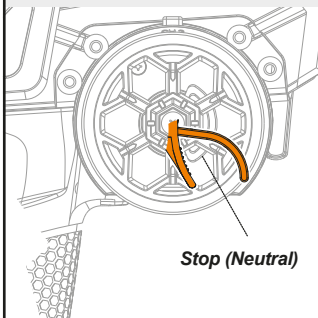
2 Press the setup button on the receiver then release. LED will flash.



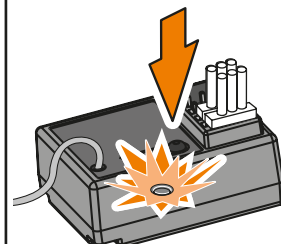
3 NOTE: Start step 4 within five seconds.

! After five seconds fail safe setup will reset, the LED will be continuously lit and you will have to start over at step one above.

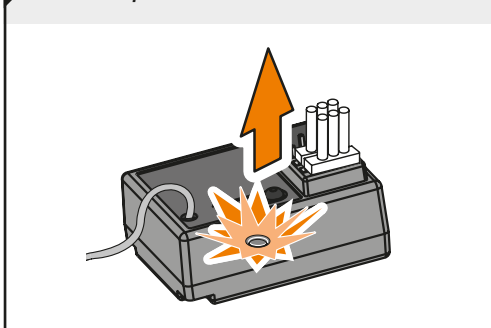
4 Leave throttle trigger in neutral position.



5 Press the setup button and hold it down. The LED will flash quickly.



6 Once the receiver LED remains lit, then release the setup button on the receiver.



7 To confirm fail safe is working refer to step 7, section 5-1

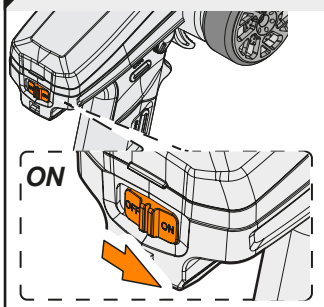


5-2 Fail Safe Setup

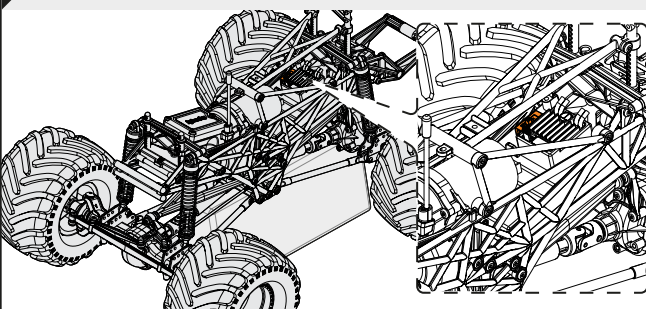
This car has a built-in fail safe system that will stop the car if the radio glitches, either because of interference or if the car goes out of range.

The fail safe system has been setup at the factory, but you should become familiar with the function of the fail safe and check the operation before running.

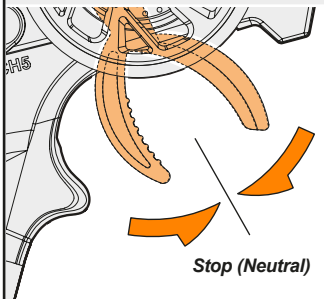
1 Turn on transmitter



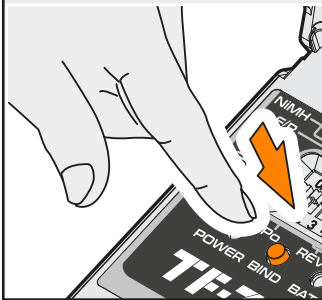
2 Turn on car (receiver)



3 Leave throttle trigger in neutral position,



4 Press the setup button and hold it down.

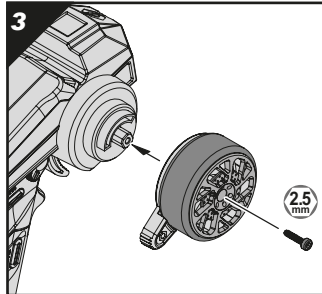
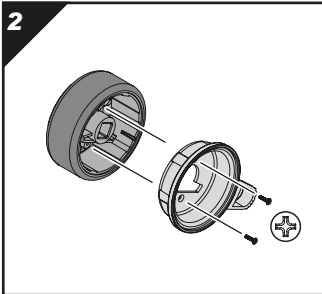
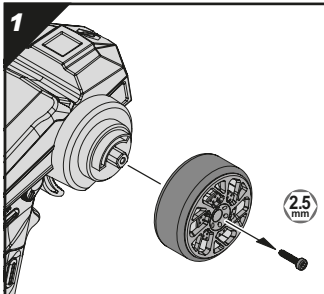


5 To confirm fail safe is working refer to step 7, section 5-1



5-3 Single Hand Operation

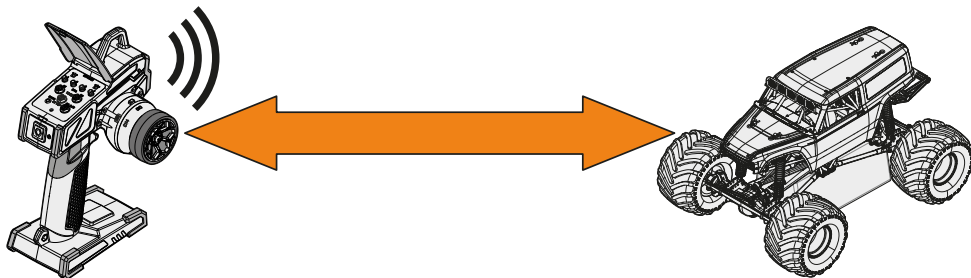
The steering wheel of the TF-706 Transmitter can be fitted with a thumb to allow it to be operated using only one hand.



6 Checking Radio Range



To properly check the range, have a friend hold the truck and walk to the farthest distance that you plan to operate your model. Operate the controls to make sure the model responds correctly. Do not operate the model if there is any problem with the radio system. If you switch on the R/C car first before the transmitter, you may lose control of the R/C car.



Caution

2.4GHz radio frequency only functions by line of sight, if you drive behind a solid object or around a corner and lose sight of the vehicle you may lose control of the RC car.

FCC COMPLIANCE STATEMENT

This device transmits in the range 2.4 to 2.4835 GHz and has been tested to comply with the limits for a Part 15 Class B device 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. Any change or modification to the device not expressly approved by the manufacturer may void the user's authority to operate the equipment. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Canada Compliance Statement:

This Class B digital apparatus complies with Canadian ICES-003. (Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.) This equipment complies with the FCC/IC radiation exposure limits set forth for FCC and Industry Canada portable transmitting devices operation in an uncontrolled environment. The equipment should only be used or installed at locations where there is normally at least a 20cm separation between the antenna and all persons. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

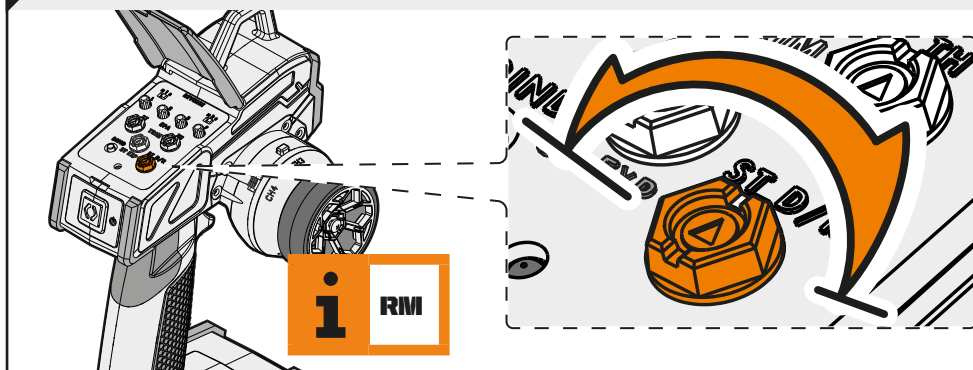
CE Compliance statement

The radio equipment type in this product transmits in the frequency range 2.4 to 2.4835 GHz with a maximum power of 18dBm and is in compliance with EU Directive 2014/53/EU. The full text of the Declaration of Conformity is available at www.hpiracing.com/ce

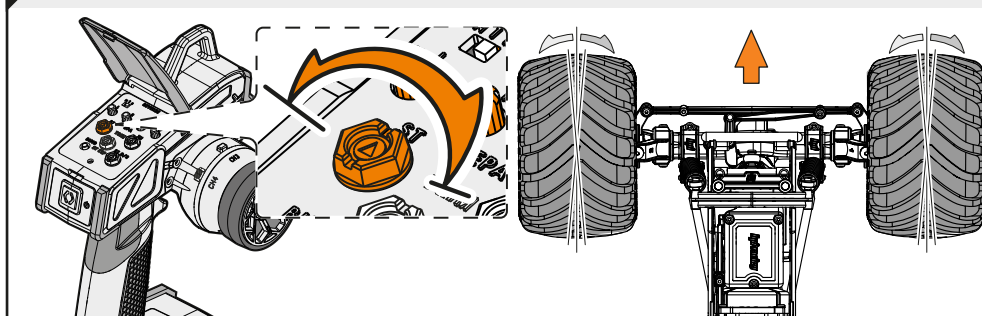
7 Basic Troubleshooting

7-1 Steering Adjustments

- 1^A** If necessary, adjust steering servo throw using the Steering Dual Rate knob

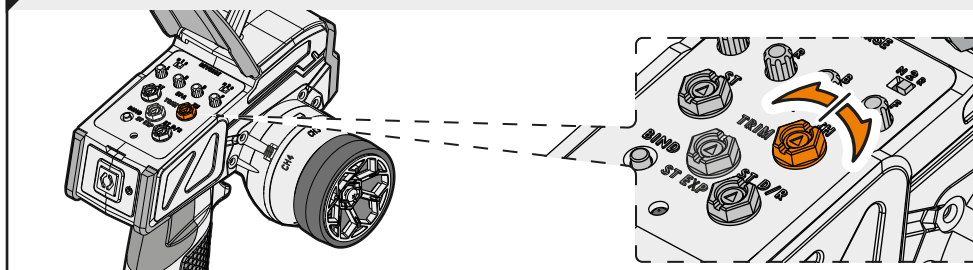


- 1^B** Adjust steering trim until wheels are in correct alignment so that car drives straight



7-2 Throttle Adjustments

- 1** If vehicle is moving without touching the trigger, adjust the Throttle Trigger Trim

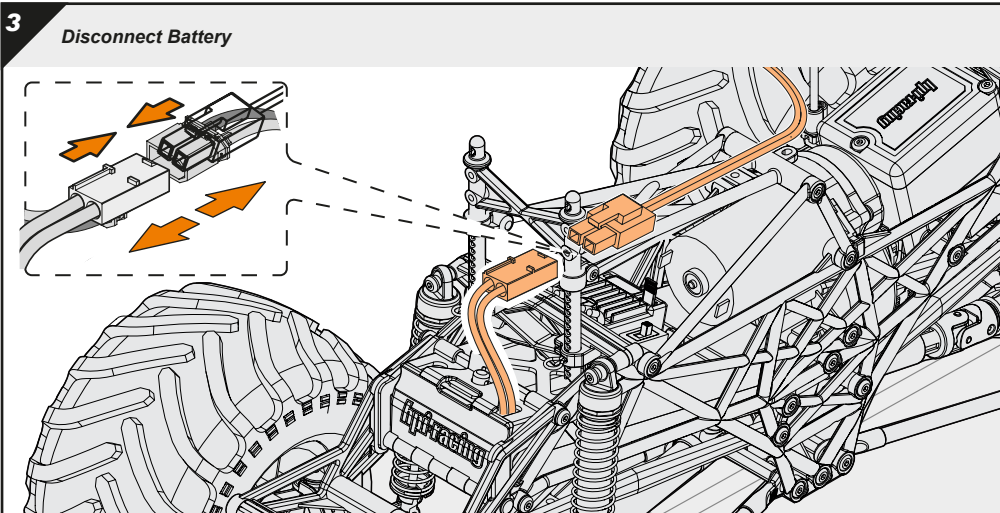
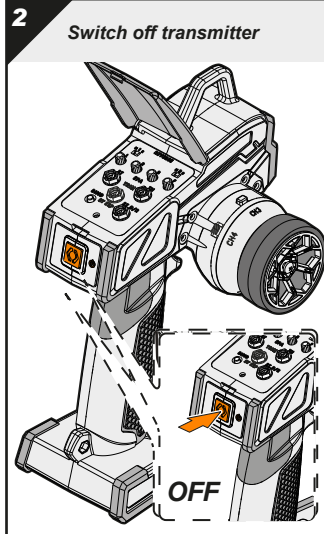
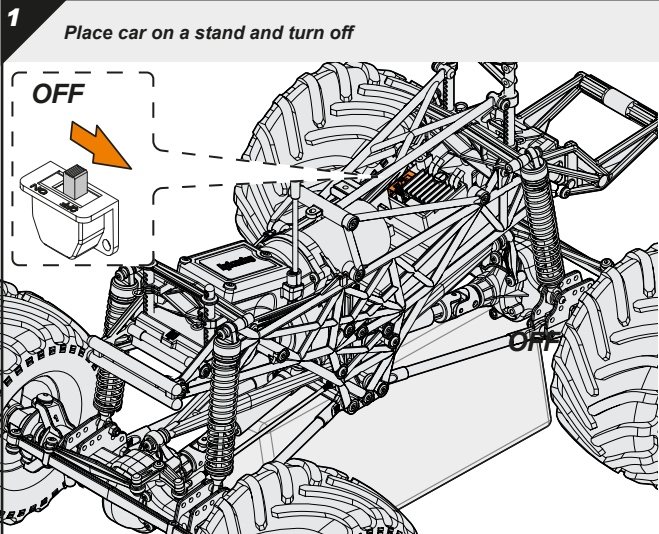




Attention

Turn off receiver first, then turn off transmitter

If you switch off the transmitter first before the R/C car, you may lose control of the R/C car.



Caution

Disconnect the battery when you are not running the vehicle.

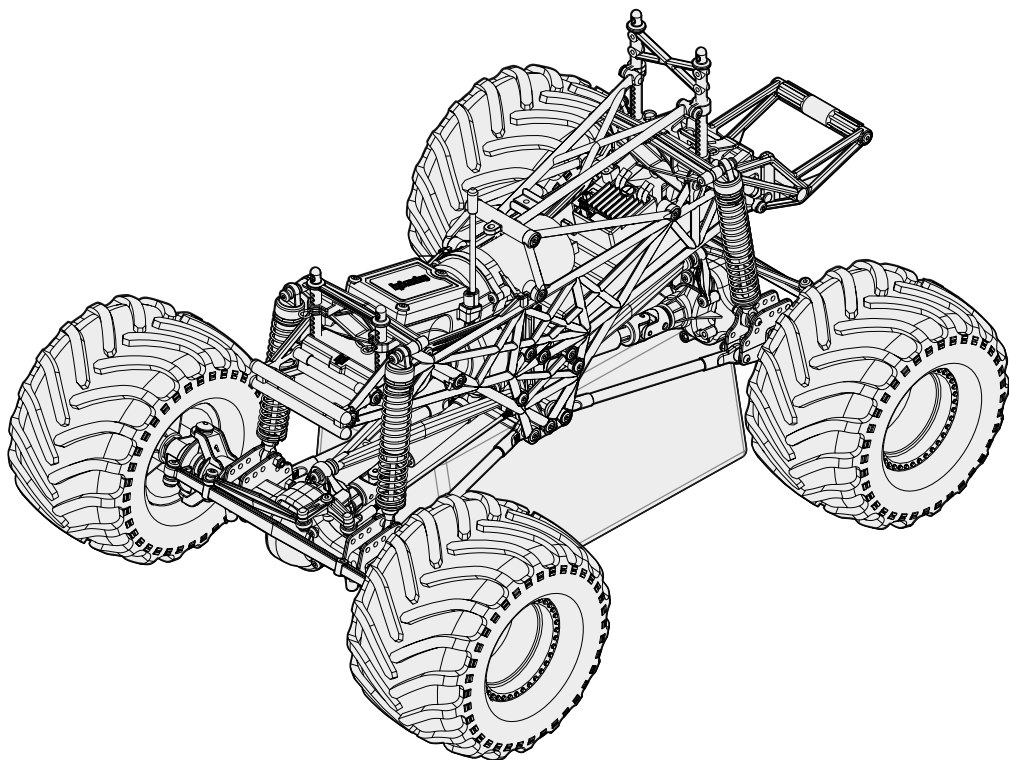
The vehicle may run out of control or the battery can overheat and cause a fire.

Driving in Wet Conditions



Caution

This HPI vehicle is NOT designed to be driven in wet conditions. Driving in wet conditions will require additional vehicle preparation and maintenance.



Notes:

Never drive the vehicle in stormy conditions where lightning could be present.

The electronic components are not waterproof; always keep them protected from rain and water. Remove all water/mud and dry the vehicle completely after driving. Check the vehicle for trapped water in the tires, transmission, etc. Some metal parts like bearings and hinge pins will need lubrication after driving in wet conditions.

The electric motor is not designed to be submerged in water. If water gets inside, it can reduce the life of the motor.

Most LiPo battery packs are not designed to operate in wet conditions. Consult the instruction manual or manufacturer for limitations. Inspect the inside of the waterproof radio enclosure after driving in wet conditions.

Adjust wiring and seals as needed to prevent water damage. After running in water, dry off any water from ESC and connectors.



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