SG

# VENTURE 18CC
# Startup Guide

## COMPETITION CRAWLER


STOP AT NOTHING.

WWW.HPIRACING.COM

hpi racing

En 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 | Please do not run on a public street, this could cause serious accidents, personal injuries and/or property damage. |
| | Please do not run near pedestrians or small children. |
| Before Operating | Make sure that all screws and nuts are properly tightened. |
| | Always use fresh batteries for your transmitter and receiver to avoid losing control of the model. |
| | Please confirm the neutral throttle trigger position. |
| After Running | Turn OFF receiver first, then turn OFF transmitter. This will prevent the car from losing control. |
| | 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. |
| 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. |

# Contents



## Additional Information

**QS** *Quick Start Guide* + www

**TG** *Venture 18CC Technical Guide* + www

**SG** *This Guide* www

**RM** *TF-706 Transmitter Manual* www

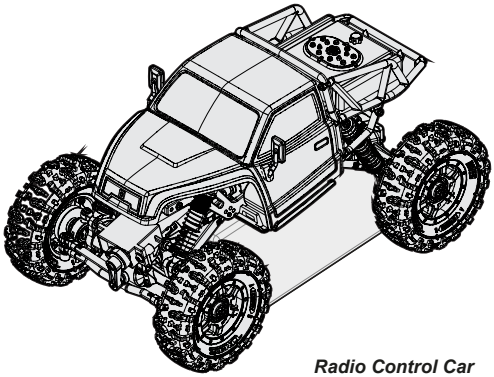
**EM** *FLX18-3S25-WP-C Competition Crawler Flux ESC Manual* www

**UG** *Venture 18CC User Guide* www

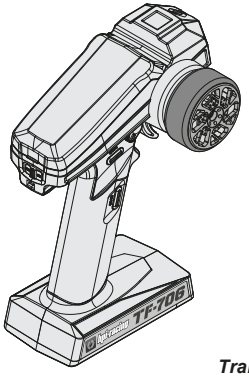
**EM-1-1**

*NOTE - This refers to the relevant guide (as above) and the relevant section. In this example, Section 1-1 of the ESC Manual.*

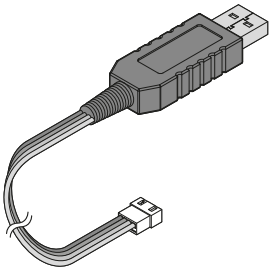
## Components



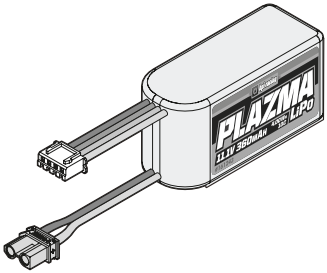
*Radio Control Car*



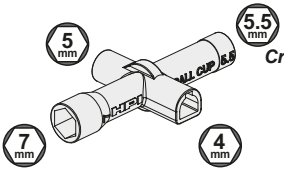

*Transmitter*



***161242***
*11.1V USB LiPo Balance Charger*

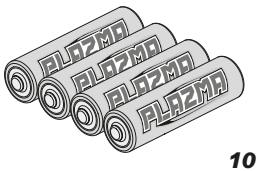



***161243***
*Plazma 11.1V 360mAh 10C LiPo Battery Pack*




*Cross Wrench*

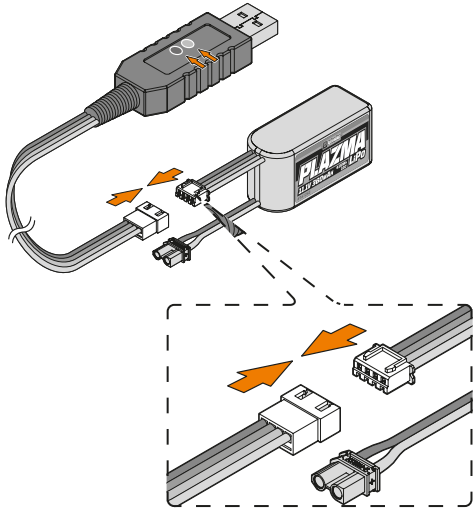
## Equipment Needed




***101939***
*PLAZMA 1.5V Alkaline AA Battery*

## 1-1 *Charging Car Battery*

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

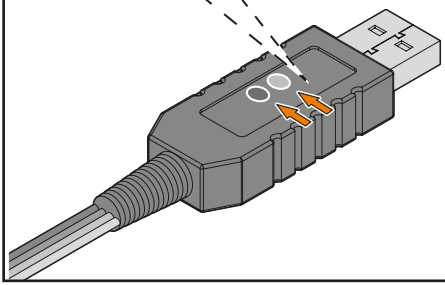


**!** **Do not force together and always check you have the connection the right way round.**

**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 |
| No LED | Charge Finished |
| 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 Adaptor with an output of at least 2A**

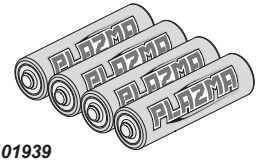
**Caution** **Do not use NiCd/NiMH battery chargers for LiPo batteries. If you do not use a special charger for LiPo batteries, they will be damaged.**

# 1-2 Setting Up Transmitter

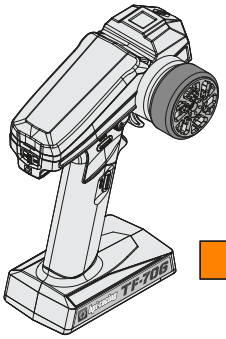
## 1-2-1 Transmitter Battery Installation

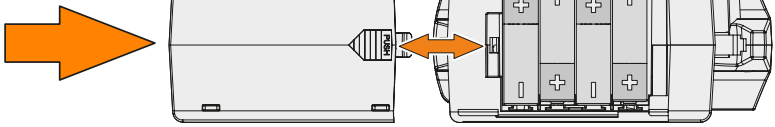
**1** *Open battery cover at the bottom of transmitter and install batteries*

**!** Do not mix batteries of different ages or types.




※ *101939*
*PLAZMA 1.5V Alkaline AA Battery*

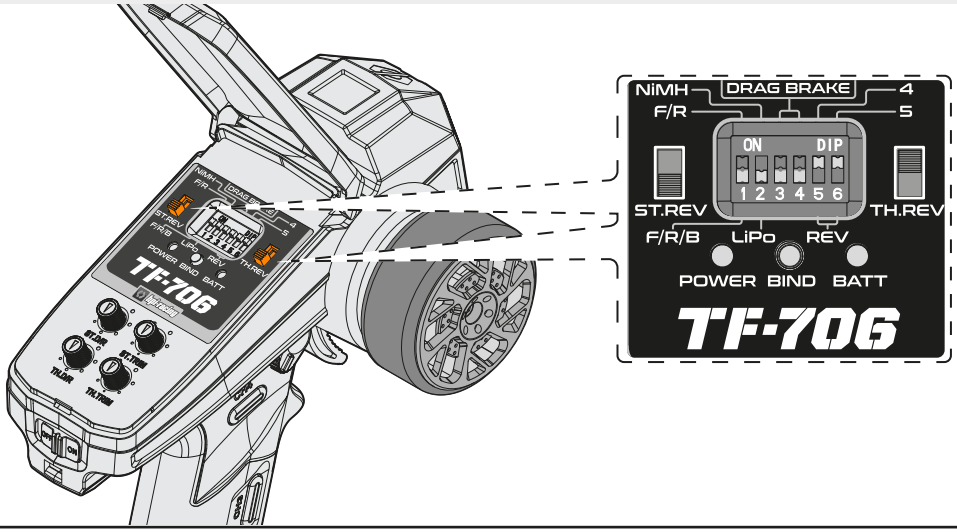



※ *Not Included*

## 1-2-2 Transmitter Preparation

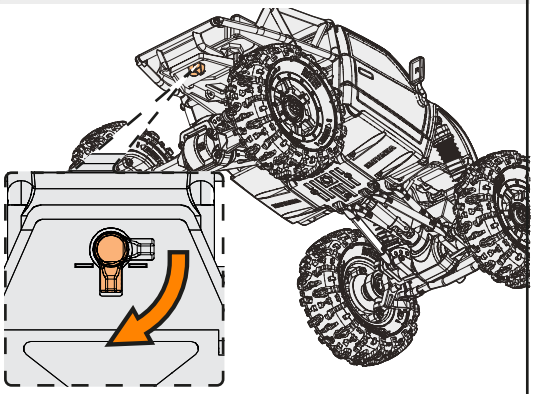
**1** *Check direction of reverse switches*



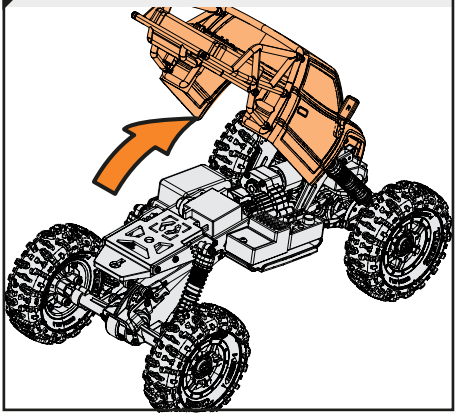
# 1-3 Preparing the Chassis

## 2-3-1 Removing the Body

**1** *Rotate clip to release body*

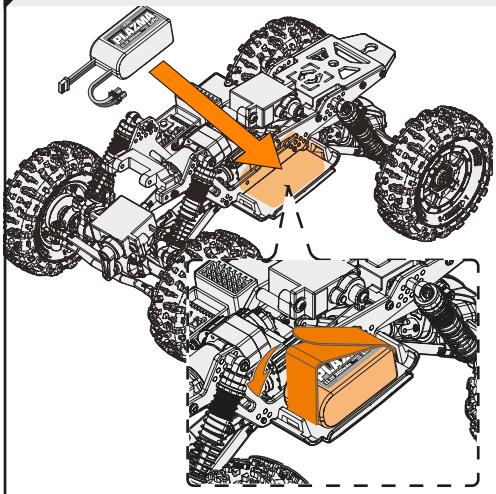


**2** *Pivot up body*



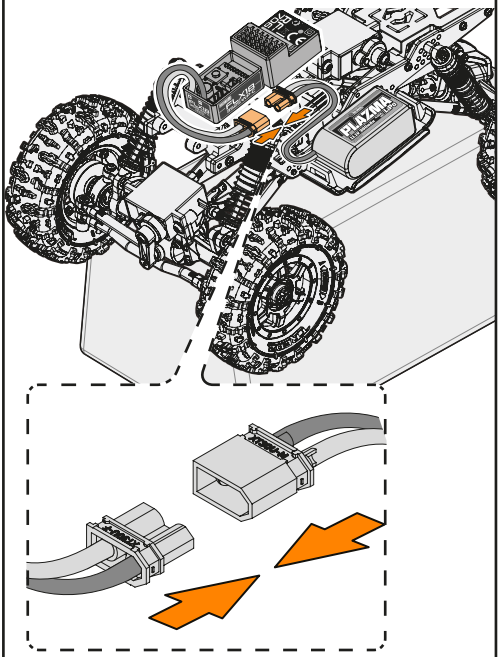
## 2-3-2 Battery installation

**1** *Fit Battery and secure with velcro strap*



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

**2** *Connect Battery*



## 2-1 *ESC Setup*

**You must setup the ESC before running the first time. After the initial setup, it is not required before every run. Please read through the instructions and get familiar with the procedure before starting setup. The setup process moves quickly, and it will help you to be ready for each step.**

### 2-2-4 FLX18-3S25-WP-C Competition Crawler Flux ESC

**1** *Select Correct Battery Mode*

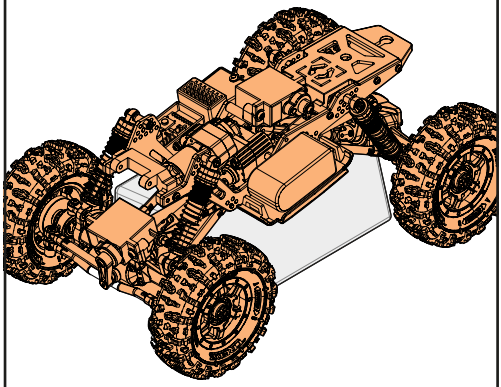
**Caution**

**The speed control has 2 types of battery modes to choose from depending on which type of battery you use (NiMH or LiPo).**

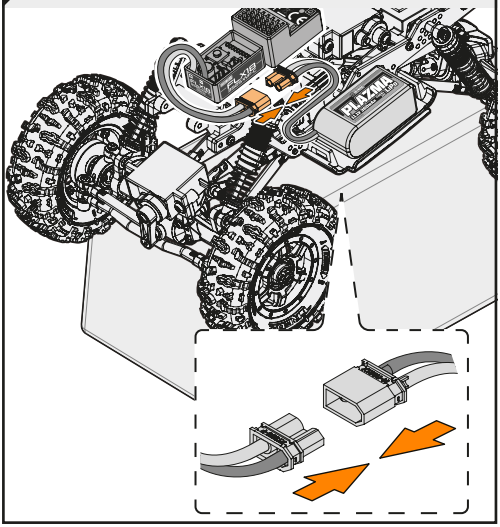
**Setup for the proper battery is needed. If you do not setup your speed control correctly, your battery may explode, swell, smoke, or become useless.**

**RM 7**

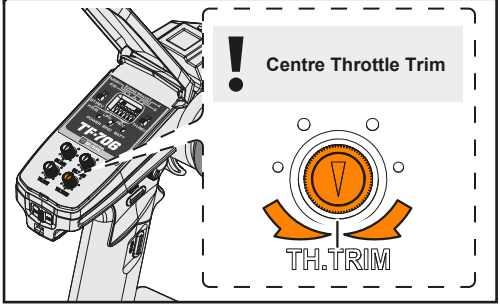
**2** *Put the car on a stand*



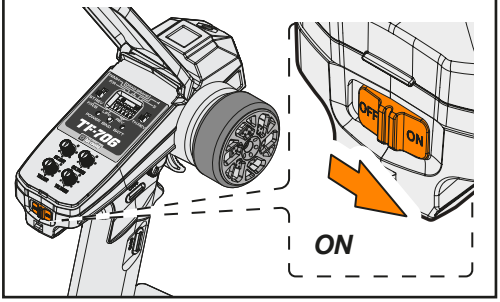
**3** *Connect Battery*



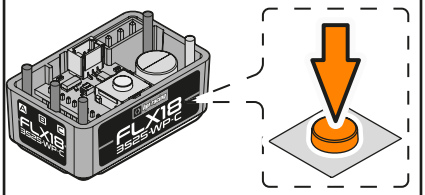
**4** *Centre throttle trim*



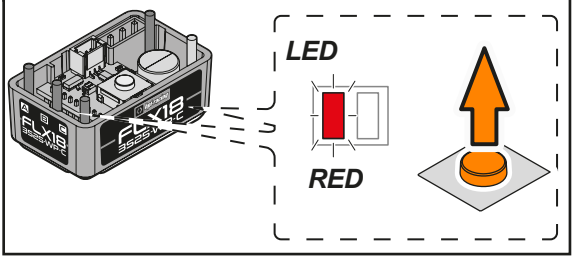

**5** *Switch on transmitter*



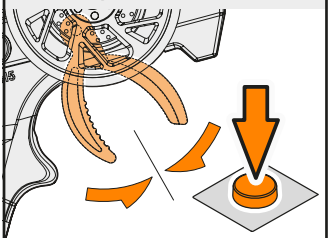

**6** *To enter calibration mode: Press and hold the ON/OFF button*



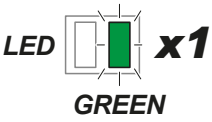
**7** *Release the ON/OFF button once the LED flashes*



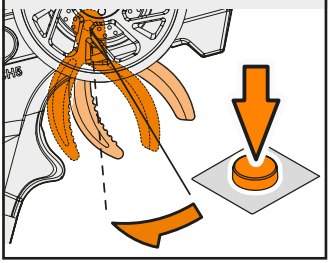

**8** *Leave the trigger in the neutral position. Press the setup button*



**9** *Green Led Flashes And A Beep Sound From The Motor*

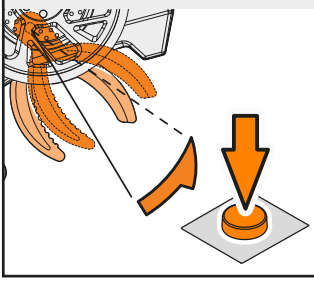



**10** *Move trigger to full throttle and press the setup button*

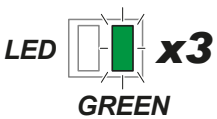


**11** *Green Led Flashes Twice Beeps Twice From The Motor*


**12** *Move the trigger to full brake and press the setup button.*



**13** *Green Led Flashes Three Times, Beeps Three Times From The Motor*



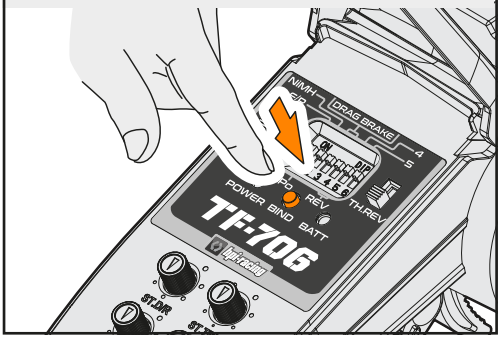
## 2-2 *Binding*

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

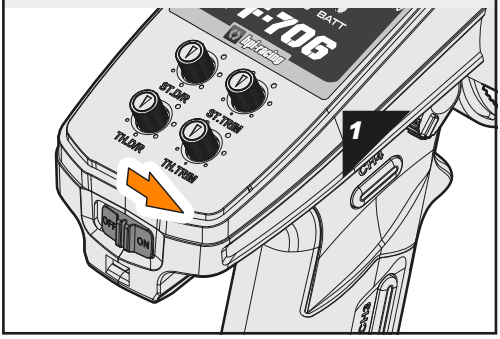
**Caution** — **Any new binding of transmitter & receiver will clear the preset fail safe.**

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

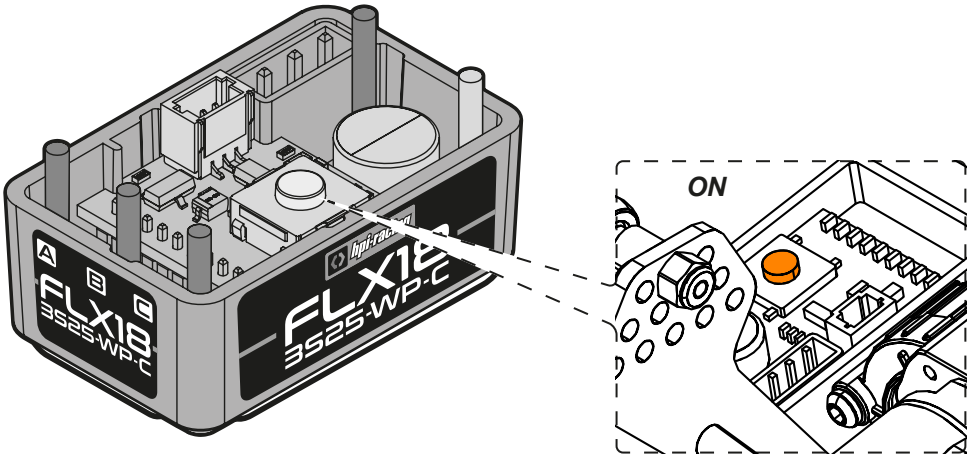
**1** *Place the transmitter and the receiver close to each other (within one meter). Press and hold the transmitter bond button*



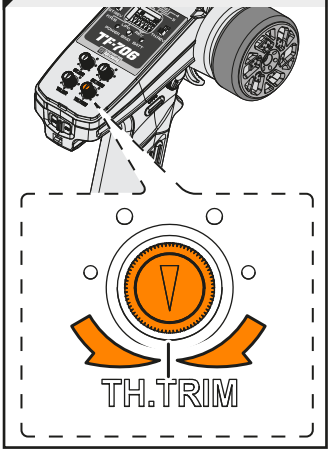

**2** *turn the power switch to the ON position. The Power LED will flash quickly. Release the setup button after 1 second.*



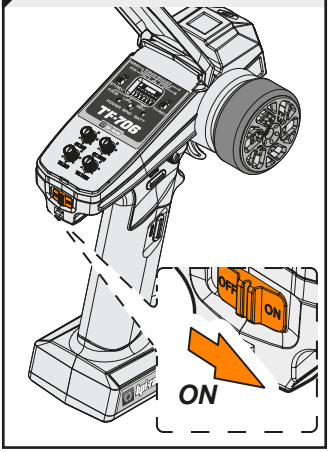

**3** *RF-706 Receiver - Turn the power switch on the Receiver to the ON position. Wait for 1 second. The LED will flash quickly until the connection is established.*



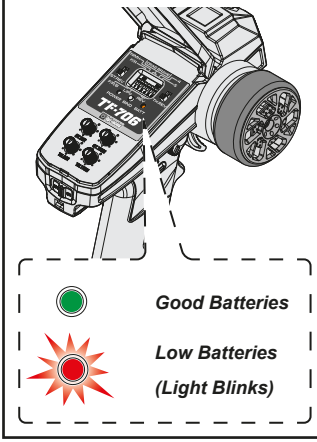
**1** *Center Throttle Trim*



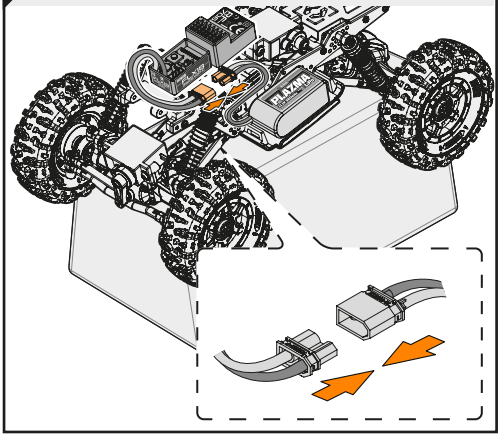

**2** *Turn on Transmitter*



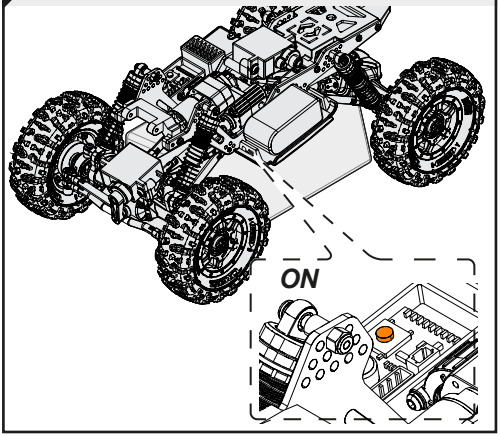

**3** *Check Batteries*



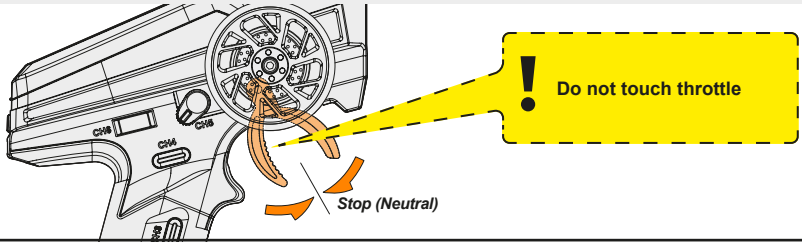

**4** *Put the car on a stand, and connect battery*



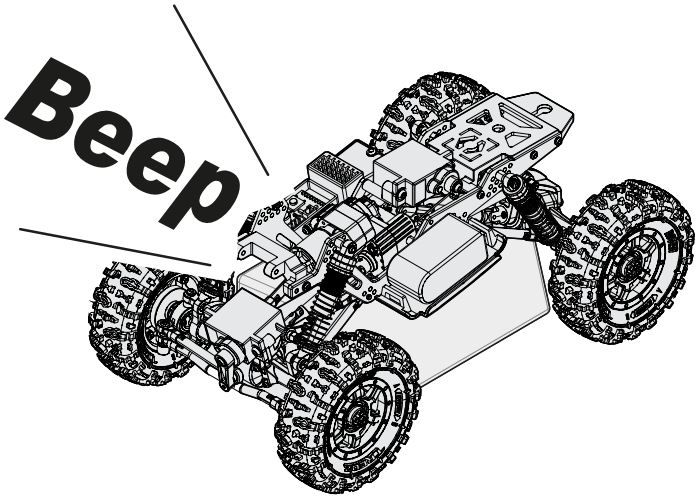
**5** *Turn on car*



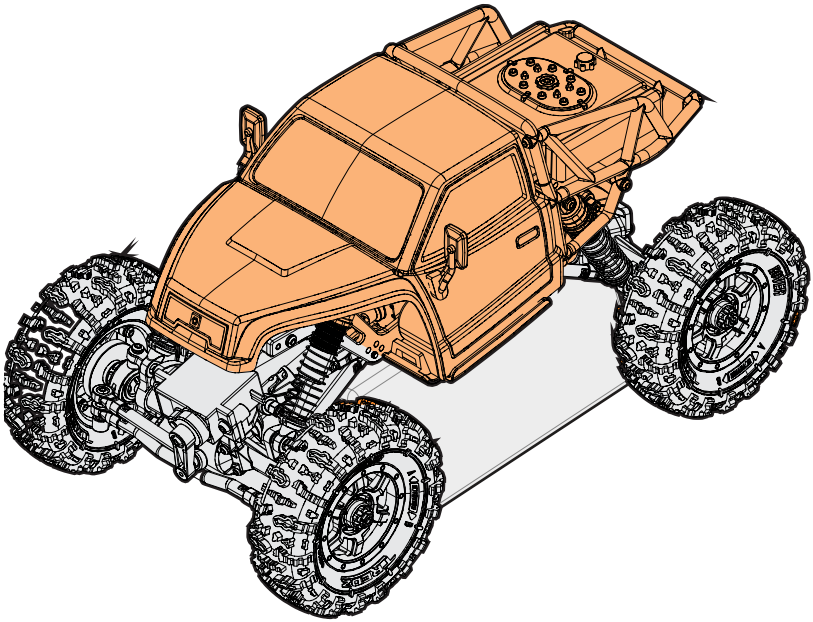

**6** *Leave throttle in mid-position*



**7** *If you hear a tone signal, the setup of the speed control has been completed*

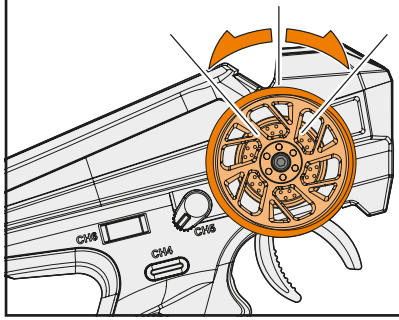


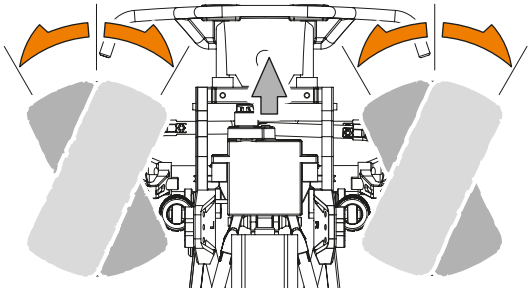

**8** *Refit body and you're ready to go!*



## 4-1 Steering

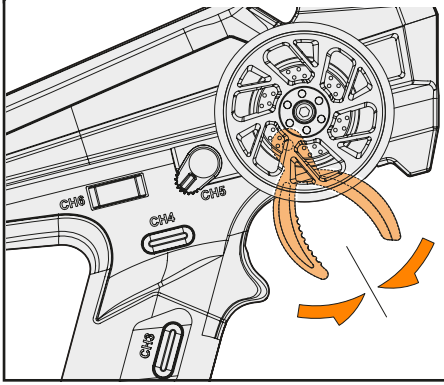
**1** *Steering is normally back = left, forward = right. This is adjustable - see transmitter manual for further information.*



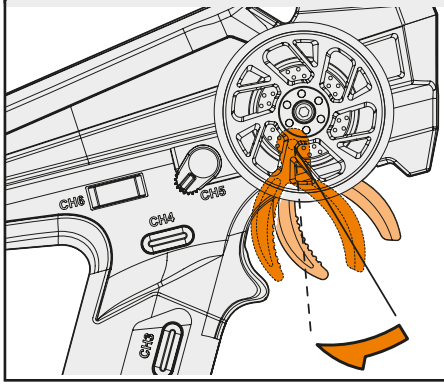



## 4-2 Acceleration

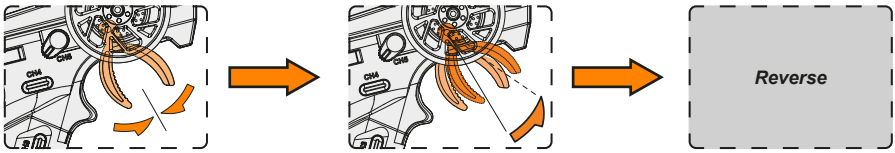
**1** *Throttle Trigger - neutral position*




**1A** *Throttle Trigger - forwards*




**2** *Throttle Trigger - Reverse brake Rock Crawling Mode*

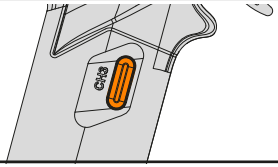



Stop (Neutral) Reverse

## 4-3 Half DIG Mode

**The Venture18 Competition Crawler can switch between 2 and 4 wheel drive**

**1** *Choose between Front Wheel Drive (FWD) or 4 Wheel Drive (4WD)*



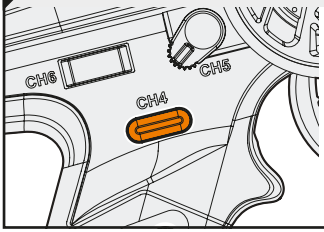

**While stationary:**

**Press the CH3 button to change between FWD and 4WD**

## 4-4 AUX: Drag Brake Force

**This mode is used to control the response of the drag brake. The higher the setting value, the faster the drag brake is applied. Using a lower value can make the vehicle stop more steadily.**

**1** *Setup*




When the Auxiliary cable is connected, you can adjust the Drag Brake Force from the transmitter. If the channel switch is a dial, then you can infinitely adjust the Drag Brake Force between 0% and 100%. If the channel uses 3 position switch, the Drag Brake Force can be adjusted between 0%, 50%, and 100%. If the channel uses a 2 position switch, the Drag Brake Force can be adjusted between 0% and 100%.

The factory setup uses Ch4 (2 position switch), but you can change it to Ch5 (Dial) or Ch6 (3 position) based on your preference.

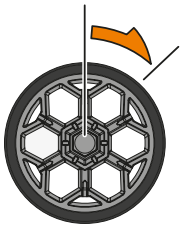
## 4-5 Practice Turning

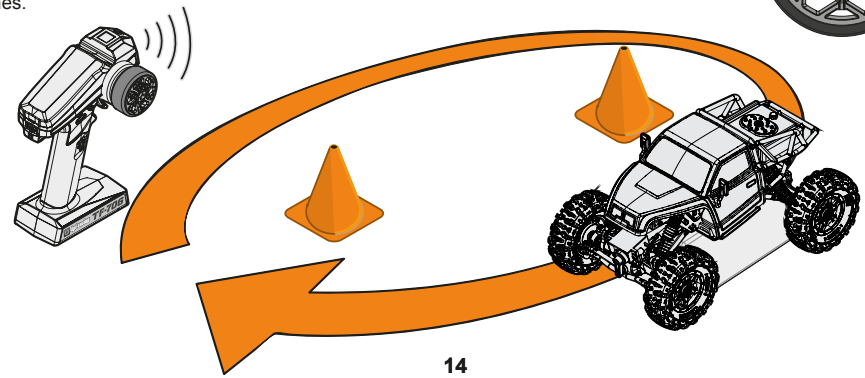
**Install body and enjoy!**

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.





# 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.**

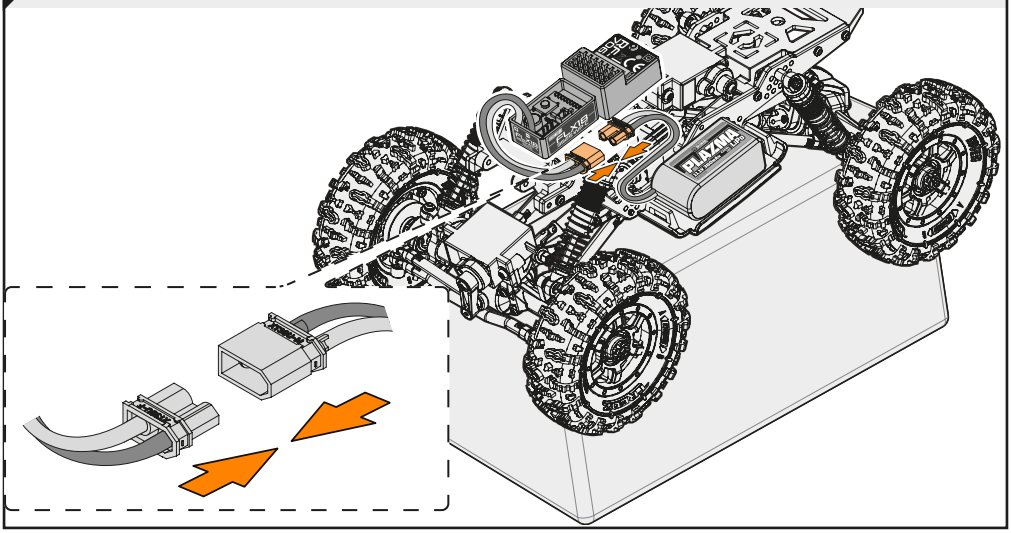
Situations when the fail safe will operate. When fail safe is operating, the red LED will continuously flash.

| | |
|---|---|
| ***HPI RF-706*** | ***When transmitter radio signal is cut off.*** |

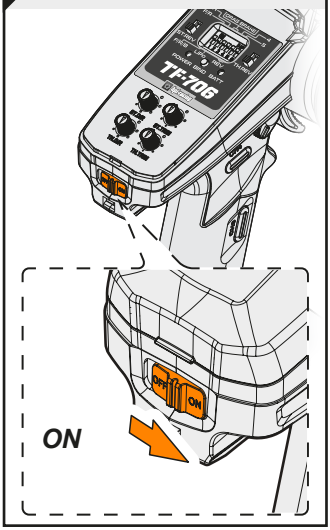
**Cautions** **The fail safe cannot completely protect your car.**

## 5-1 *Checking Fail Safe*

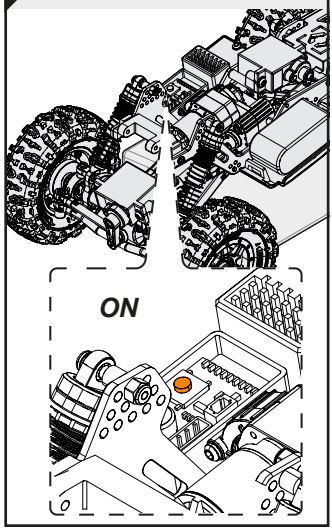
***1*** ***Place car on a stand and Connect Battery***



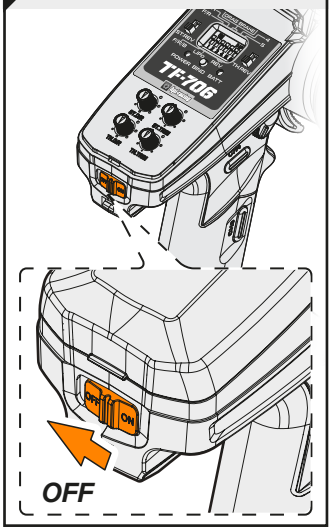
**2** *Turn on transmitter*




**3** *Turn on car*

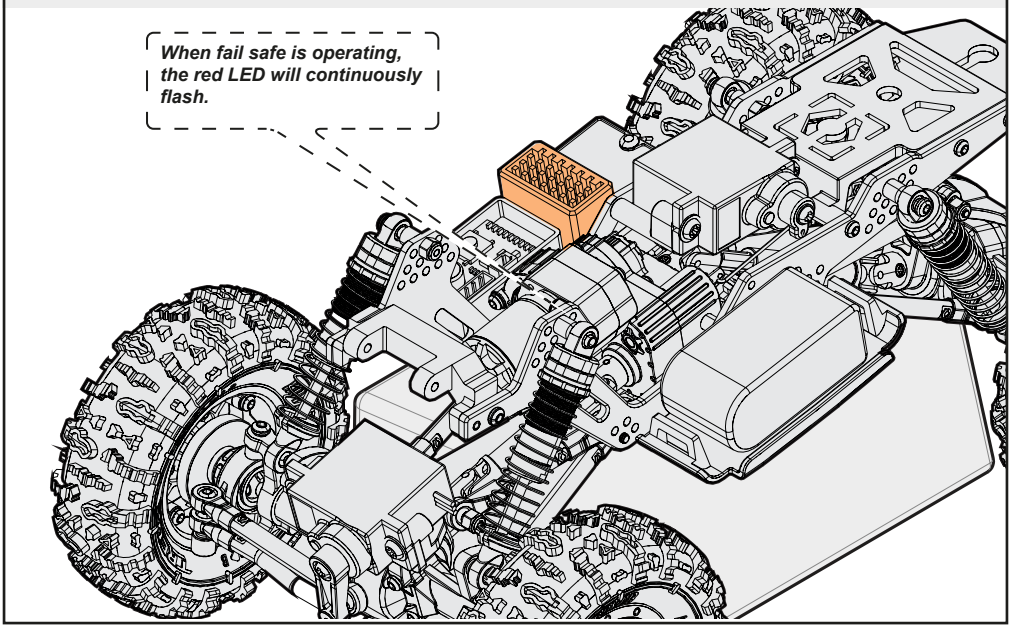



**4** *Turn OFF transmitter*




**5** VENTURE 18CC

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

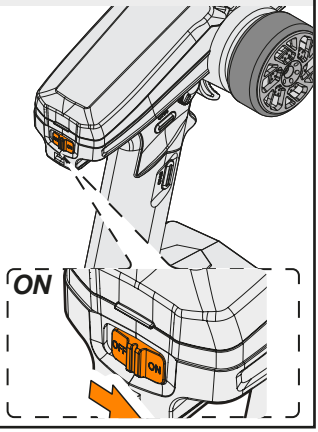



**Caution**

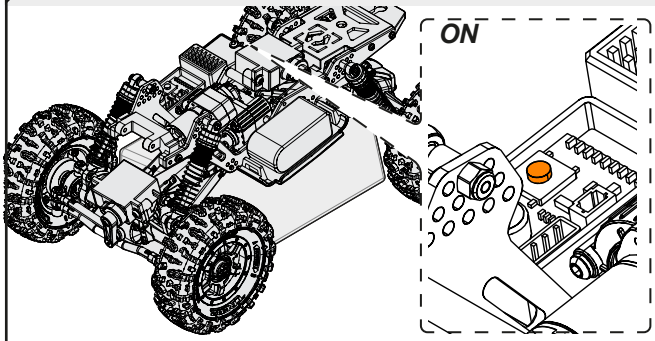
**If the red LED is flashing, the car should be in neutral. The ESC should not be applying throttle, brake or reverse. If car is not in neutral, please perform the fail-safe setup procedure.**

# 5-2 Fail Safe Setup

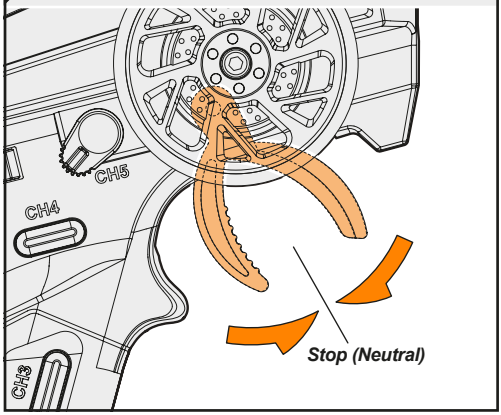
**1** Turn on transmitter



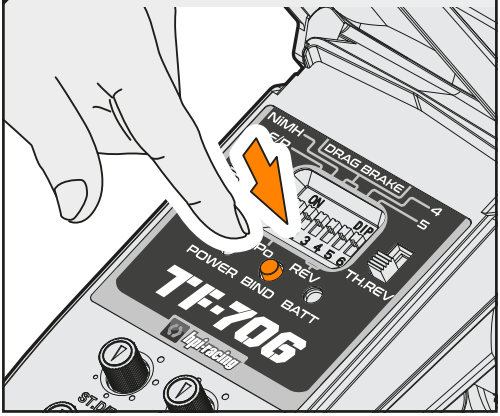

**2** Turn on car (receiver)




**3** Leave throttle trigger in neutral position,




**4** press the setup button and hold it down.

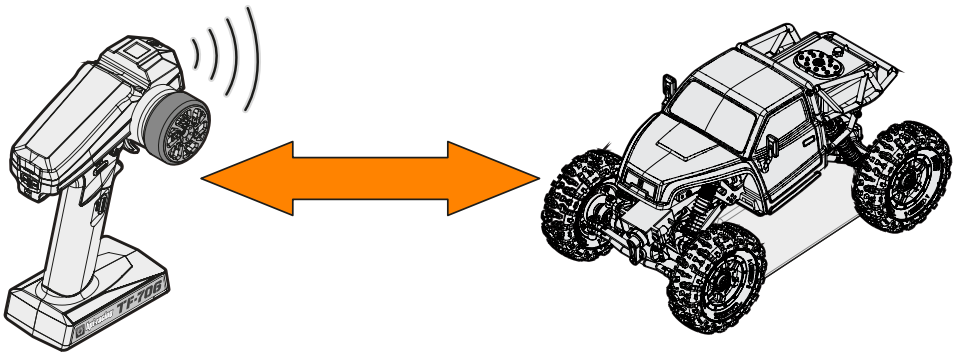



**5** To confirm fail safe is working refer to step 7, section 5-1

i 5-1

# 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.**



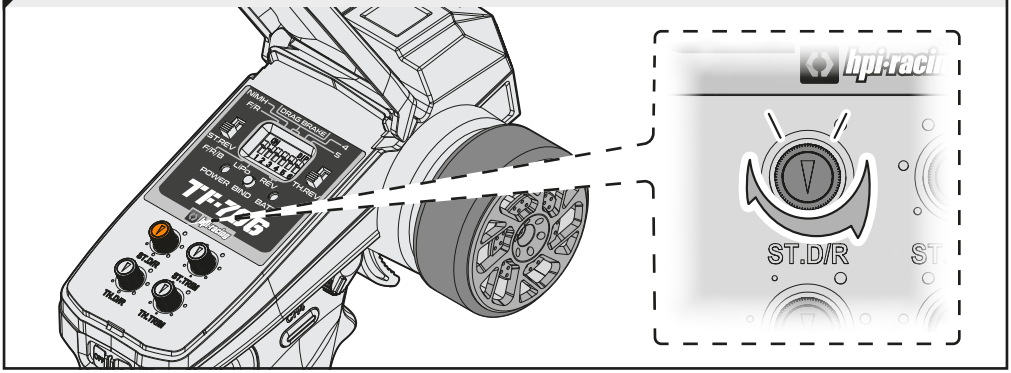

**Caution**

**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.**

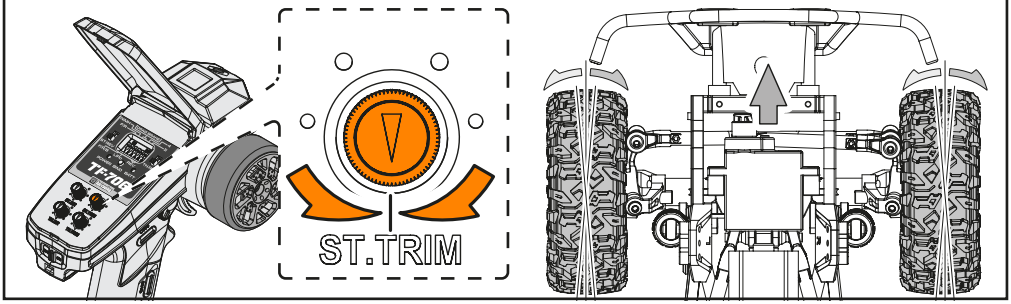
# 7 Basic Troubleshooting

## 7-1 Steering Adjustments

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

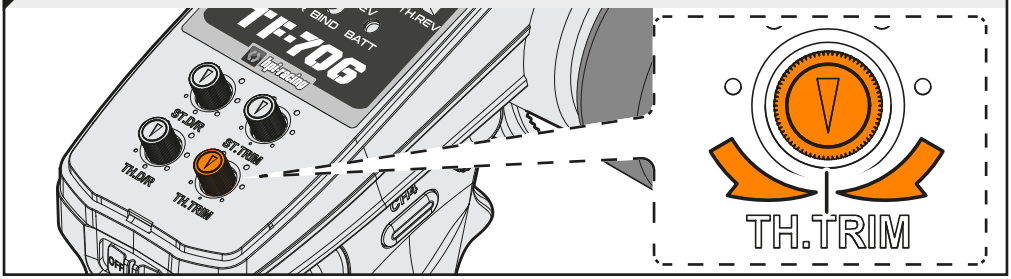



**1B** *Adjust steering trim until wheels are in correct alignment so that car drives straight*




## 7-2 Throttle Adjustments

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

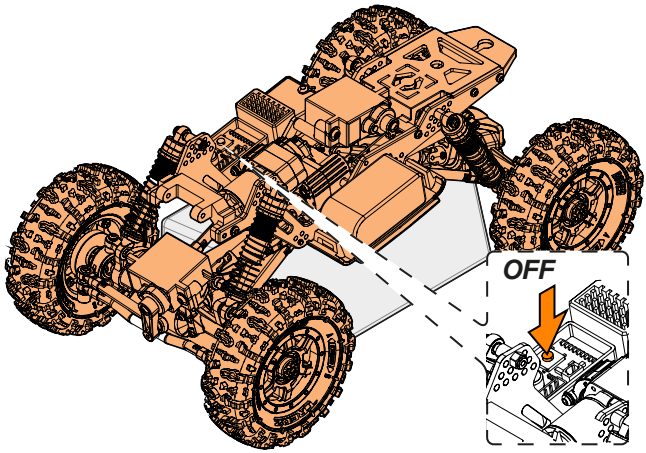


**Attention**

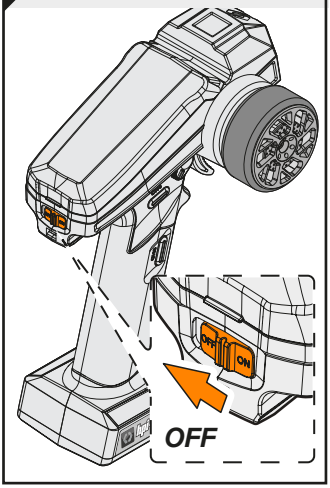
Turn off reciever first, then turn off transmitter

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

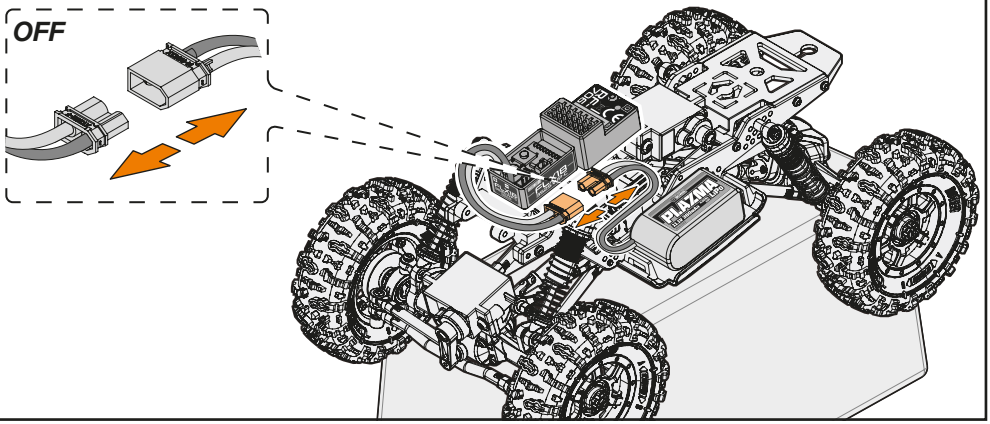
**1** *Place car on a stand and turn off*




**2** *Switch off transmitter*




**3** *Disconnect Battery*



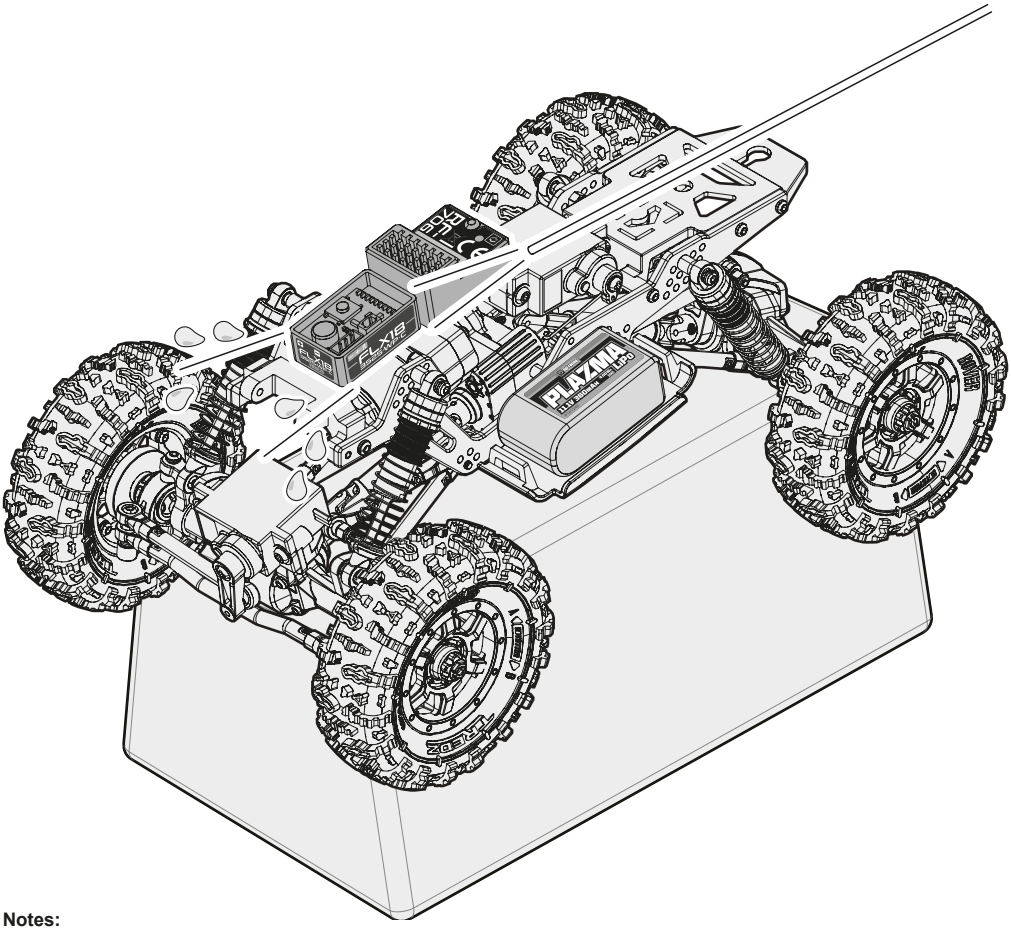

**Caution**

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.

**HPI RACING A/S**

**www.hpiracing.com**
HPI Racing A/S
Jegindøvej 21
DK - 8800 Viborg
Denmark
**Email: info@hpiracing.com**

***Serial Number***
***Seriennummer***
***Numéro de série***
シリアルナンバー