ENG

ABOUT THE RADIO SYSTEM

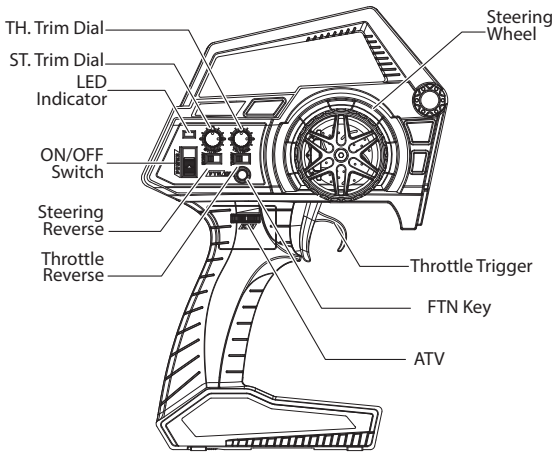
Z-CAR ZTX-700 2.4GHz FHSS Technology System

The following is an overview of the various functions and adjustments found on ZTX-700 radio system for Z-CAR models. It is important to read and understand about all of these functions and adjustments before driving.

FUNCTIONS

TRANSMITTER ZTX-700
Steering Wheel : Control direction (Left/Right) of the RC model.
Throttle Trigger : Control speed and direction (Forward/Brake/Backward) of the driving model.
ON / OFF Switch : Power ON / OFF the transmitter.
FTN Key : Is used to synchronize the connection between the transmitter and the receiver. It also serves as additional function on different model.
LED Indicator : Green and Red color for indicating battery low, pairing in progress, End-Points setting and normal operation.
ATV : Adjust the maximum steering angle on both sides when model turns Left / Right.
ST. Trim Dial : Adjust the neutral position of steering servo when model wheels are straight ahead.
TH. Trim Dial : To adjust the throttle position
Steering Reverse : Reverse the response direction when operating Steering Wheel.
Throttle Reverse : Reverse the response direction when operating Throttle Trigger.

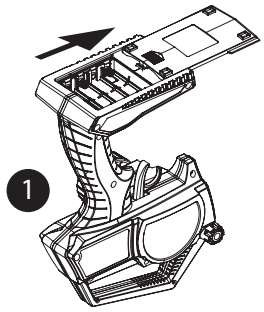
* In general, user will experience under steer when making a wide turn at high speed or over steer when making sharp turn at high speed (easy to spin out). User should practice the Throttle and steering approach for different cornering at different speed or road surface.



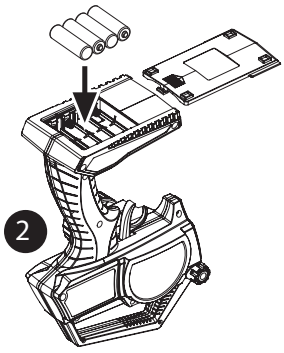
ZTX-700

Battery Installation

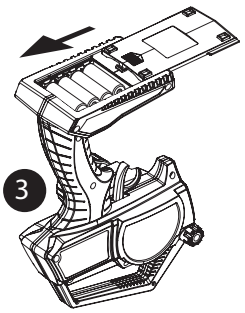
1. Supplied with 4 x 1.5V AA Batteries, radio can be operated a few hours. Installation: Remove the battery compartment cover as shown below.



2.Install the batteries observing the polarity marked on battery compartment.



3.Then reinstall the battery compartment cover as the Picture shown below.



Warning :
Never disassemble batteries or put the batteries in fire, chemical agents, otherwise they may cause personal injuries or property damages.

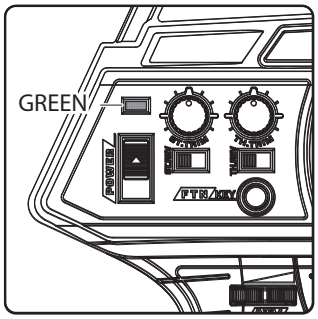
Battery Disposal :
Observe corresponding regulations about wasted battery treatment regulations.
1. After running out of power, dispose of wasted batteries in designated areas far away from water supply, household areas and planted areas.
2. Submit the wasted batteries to specific recycling stations.

Battery LED Indicator

The Green LED indicator located on the front left side of the transmitter indicates the power supply of batteries. The green LED will go solid on indicating that the batteries have sufficient power. When batteries voltage drops below 4 volts, LED will turn to Flashing RED, indicating the batteries power is low and should be replaced.

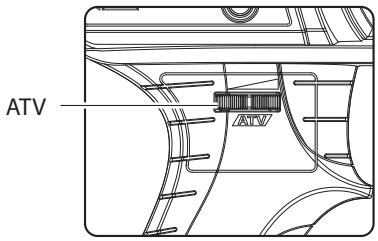
Solid GREEN :
Sufficient Power supply

Flashing RED :
Time to replace batteries

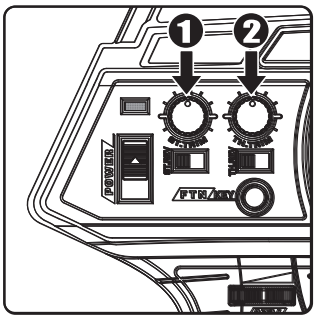


ATV

ATV enables to adjust the maximum steering angle of servo on both sides (Left and Right) when model makes steering. The ATV affects the sensitivity of servo. Reducing dual rate value can lower the sensitivity of servo and reduce the same maximum steering angle on both sides. Remember to adjust the ATV within the adjustment range.



Pre-Run Check



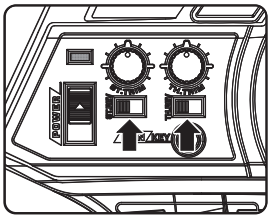
1. Steering : Adjust the steering trim to keep the front wheels in straight line when steering wheel remains in NEUTRAL position.

2. Throttle : Adjust the throttle trim to ensure the rear wheels stop rotating when throttle trigger remains in NEUTRAL position.

* Always turn on the transmitter first by sliding the switch on the left side from bottom to top. The small red and green lights above the switch should both light up. If not, you need to check for low or incorrectly installed batteries.

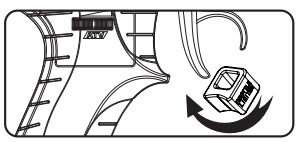
Reversing

Reversing is used to change the response direction of steering wheel and throttle trigger. This Transmitter features 2 reversing functions: Steering Reverse and Throttle Reverse.
Steering Reverse: Reverse the response direction when operating steering wheel. Turning left steering wheel, the model turns right while turning right the model turns left.
Throttle Reverse: Reverse the response direction when operating throttle trigger. Pushing forward throttle trigger the model moves backward while pulling back, the model moves forward. If necessary you can just use a small screwdriver to adjust the responding switches.



Throttle Limiter

Installed the Throttle limiter can reduced Throttle travel by 30% .
Ideal for beginner.



NCC Warning Statement

Article 12

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristic and functions of the original design of the certified lower power frequency electric machinery.

Article 14

The application of lower power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.

FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide residential 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and the receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

FCC Warning:

The equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. Modifications not authorized by the manufacturer may void the user's authority to operate this device. This device complies with part 15 of the FCC Rules. 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.

Limited Warranty

Warranty Period: Z-CAR R/C warrants that the SC-1E (”Product”) will be free from original factory defects in materials and workmanship upon purchase (”Warranty Period”). What is Not Covered - This warranty is not transferable and does not cover (a) cosmetic damage, (b) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (c) modification to any part of the Product, (d) attempted service by anyone other than a Z-CAR R/C authorized service center, or (e) Product not purchased from an authorized Z-CAR RC dealer.
OTHER THAN THE EXPRESS WARRANTY ABOVE, Z-CAR RC MAKES NO OTHER WARRANTY OR REPRE-SENTATION, AND THREFORE DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND SUITABILITY FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETER- MINED THAT THE PRODUCT WILL MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Purchaser's Remedy - Z-CAR RC's sole obligation and purchaser's sole and exclusive remedy shall be that Z-CAR RC will, at its option, either (a) service, or (b) replace, any Product determined by Z-CAR RC to be defective. Z-CAR RC reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Z-CAR RC. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

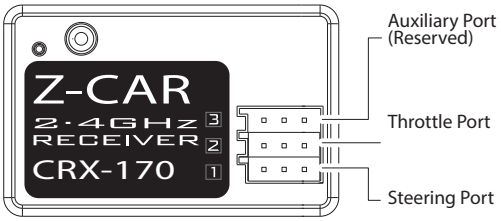
Limitation of Liability
Z-CAR RC SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF Z-CAR RC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Further, in no event shall the liability of Z-CAR RC exceed the individual price of the Product on which liability Is asserted. As Z-CAR RC has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you se the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase. This warranty gives you specific legal rights, and you may also have other rights which vary from country to country, or state to state. Z-CAR RC reserves the right to change or modify this warranty at any time without notice.

Carisma LTD
21/ Floor, Kingsway Industrial Building,
Phase 2, 173 - 175 Wo Yi Hop Road,
Kwai Chung, N.T., Hong Kong.

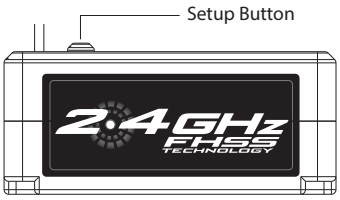
Note: For official Carisma RC spare parts, see your local hobby shop or place of purchase first. If unavailable, parts can be ordered direct at: http://www.carisma-shop.com

Z-CAR 2.4GHz Receiver CRX-170

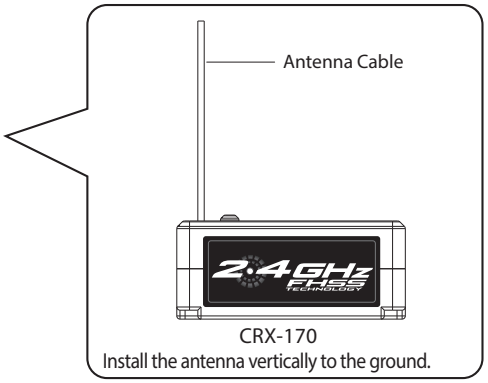


Auxiliary Port (Reserved)
Steering Port : Where to plug in the servo.
Throttle Port : Where to plug in the Electronic Speed Controller (ESC).
Setup Button : Synchronize transmitter and receiver. Select frame rate.

Tips :
- Wrap the receiver with something soft, such as foam rubber, to avoid vibration. If there is a chance of getting wet, put the receiver in a waterproof bag or balloon.



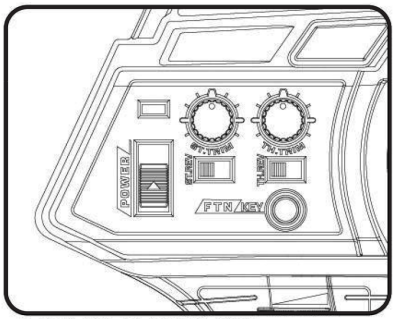
Warning :
- Never bend the metal pins on the PCB of receiver.
- Never cut the antenna cable.
- Install the antenna vertically as shown in the figure.
- Keep the antenna as far away from the motor, ESC and other noise sources as you possibly can.



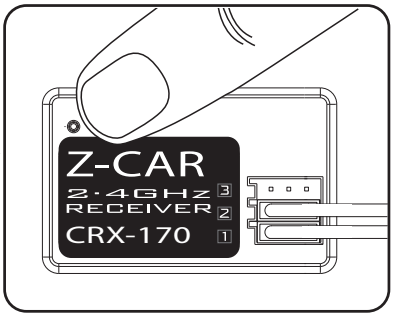
Remarks :
The mounting positions of receiver and antenna cable greatly affect the operating range.

Z-CAR 2.4GHz Receiver CRX-170 Synchronization

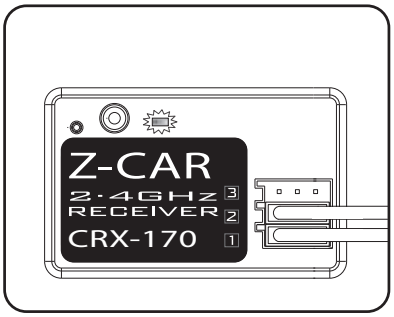
MAKE SURE ALL CONNECTIONS ARE CONNECTED AND IN THE RIGHT ORDER



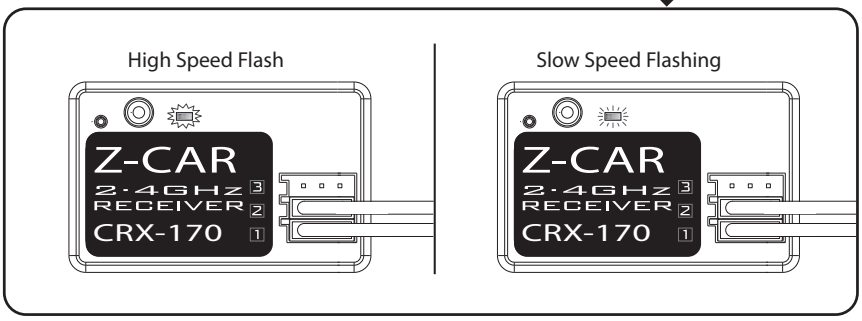
1. Transmitter is OFF Position



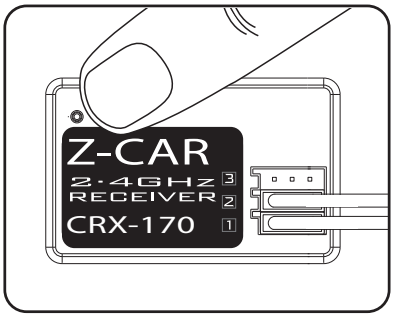
2. HOLD the Setup Button located on the Receiver while turning ON



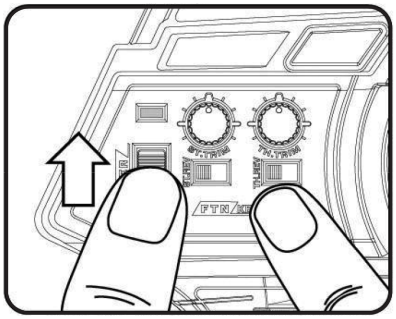
3. The LED on the receiver will Flash



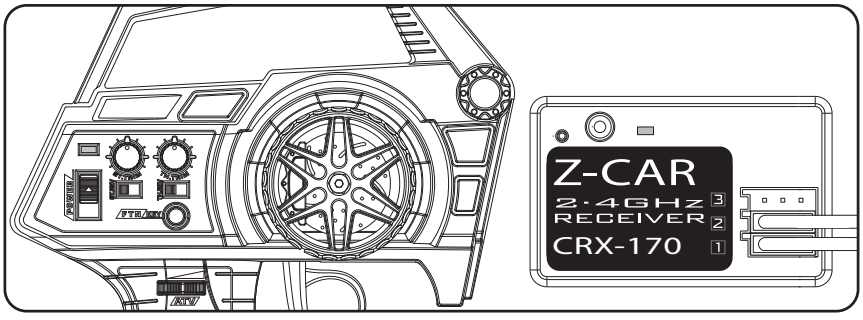
4. The flashing pattern on the receiver indicates the frame rate:
High Speed Flash is for all kind of Servos and
Slow Speed Flashing is for Analogue Servos ONLY



5. Select the desire frame rate by pushing the Setup Botton on the receiver ONCE.



6. Now, take the transmitter HOLD the FTN KEY while you turn the Transmitter ON
Now the Transmitter is SYNCing with the Receiver



7.When the LED on both Transmitter and the Receiver remain solid then Transmitter is sucessfully Sync to Receiver

IF IT FAILS TO SYNC, THE LED WILL CONTINUE TO FLASH AND PLEASE GO BACK TO STEP 1 AGAIN.