
FS-GT15 2.4GHz 3IN1 ELECTRONIC SYSTEM

USER'S GUIDE V1.0

DESCRIPTION

FS-GT15 is a 3 in 1 multifunction 2.4GHz electronic system build for RC cars. It has built in servo and ESC inside the receiver all these features just in one small piece.

SPECIFICATIONS

- Transmitter Model: FS-GT15 Tx
- Transmitter Frequency: 2.4G (GFSK)
- Remote control distance: >40m
- Power Supply: 4 Cell AA Batteries
- Configuration mode: button

- Receiver Model: FS-GT15 Rx
- Voltage Range: 1S Lipo
- Receiver frequency: 2.4G (GFSK)
- Supported motor: 180 brush motor, 180 carbon brush motor or 0716 hollow cup motor
- Supported servo: 5g or 9g 5-wire servo.

FEATURES DESCRIPTIONS

- 2 channel transmitters, set ST TRIM and TH DR.
- Integration of Receiver, ESC and servo, high integration, install conveniently.
- Throttle neutral point adaptation without the TRIM setting of TH.
- Low voltage cut-off protection for battery / Throttle signal loss protection.

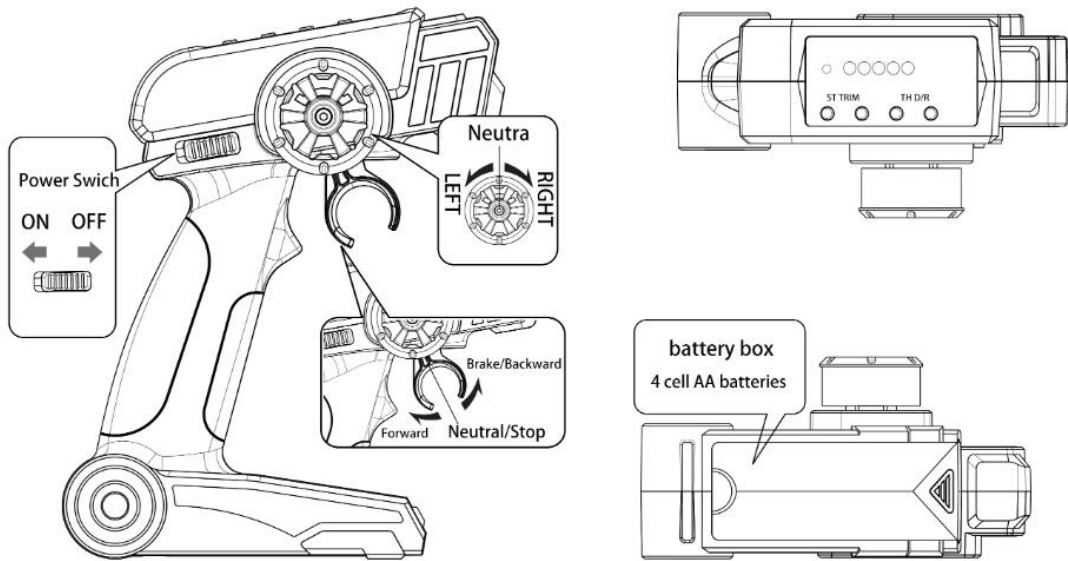
Declarations and Warnings

FS-GT15 Rx is a highly-integrated multifunction ESC. It has built-in functions of ESC, servo and 2-channel receiver. It must work with right motor and servo in order to get FS-GT15 Rx work properly, otherwise the FS-GT15 RX will be destroyed.

Don't block the motor for a long time, which will damage the ESC.

Don't block the servo for a long time, which will damage the servo driver.

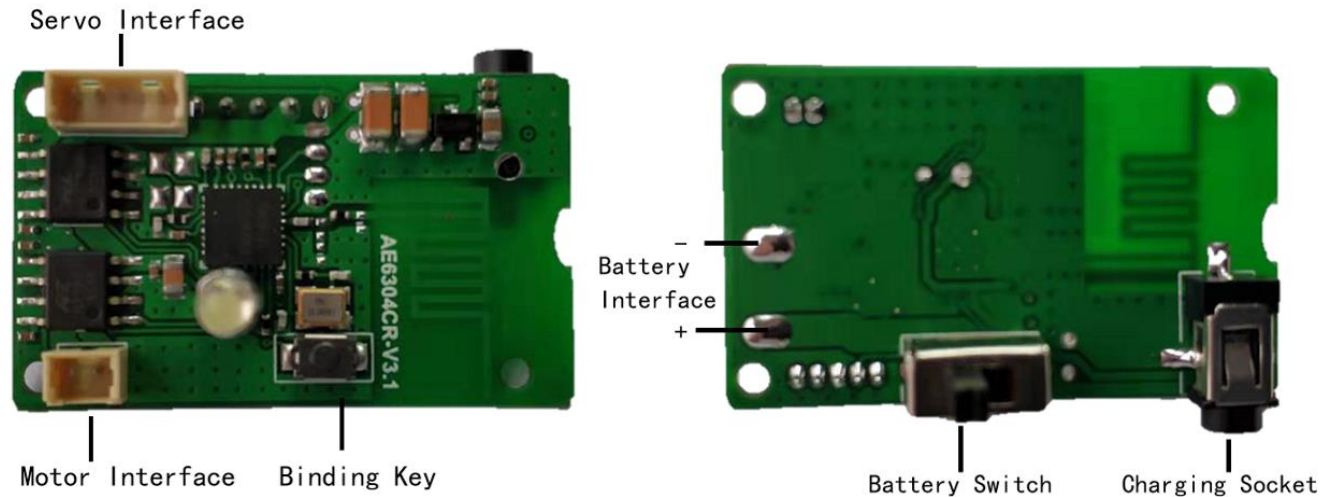
Transmitter



WARNING: BATTERIES ARE SUITABLE FOR 4 ALKALINE BATTERIES. ENSURE THAT THE POSITIVE AND NEGATIVE POLES OF THE BATTERIES ARE INSTALLED CORRECTLY. THE INCORRECT POLARITY OF THE BATTERIES WILL CAUSE DAMAGE TO THE REMOTE CONTROL. LED INDICATES TRANSMITTER BATTERY VOLTAGE STATUS, WHEN ONLY ONE LED LAMP IS ON, THE BATTERY VOLTAGE IS LOW, PLEASE REPLACE THE BATTERY IN TIME!

Receiver

Interface



- Battery Switch: Control the power of the receiver;
- Battery interface: Battery interface for 1S Lipo;
- Motor interface: The connector for 180 motor.
- Servo interface: The connector for 5-wire servo.
- Charging socket: The charging interface of the receiver. The receiver is charged by the transmitter.

Warning: Ensure that the positive and negative poles of the battery interface are correct, and the inverse will burn out FS-GT15 RX.

Transmitter and Receiver Pairing

Please follow the following steps:

1. Open the receiver first and click the button to make the receiver enter the binding state. The LED will blink rapidly.
2. Turn on the transmitter. The transmitter's red LED blinks quickly, indicating that the transmitter enters the binding state. The binding will be completed within 3s.
3. After binding successfully, the receiver's LED will always be on.

Receiver LED light State

1. LED light stays on: transmitter and receiver has been paired, work properly.
2. LED light blinks slowly: receiver does not pick a signal from transmitter: (1). transmitter is not on; (2). pairing has not been done yet.
3. LED light blinks once a second: battery voltage is low.

4. LED light blinks fast: under pairing mode.

Fail Safe

Fail safe feature build in receiver. When receiver stop communication with transmitter, ESC will stop outputting, then steering channel output will maintain the latest position.

Low Voltage Protection

The receiver has built-in low voltage protection.

If the battery voltage is less than 3.3V, the receiver enters the low voltage protection mode and the motor output maximum speed is limited to 50%.

If the battery voltage is less than 3.1V, the motor will stop running.

Installation and Use Guide

The remote control is a 2.4G wireless products, a proper installation and usage will exert influence on performance of the product.

Due to the poor penetration of 2.4G signals, it is necessary to ensure that transmitters and receivers are used without occlusions in order to ensure reliable communication;

A build-in 2.4G signal receiving module inside the receiver, so keep it away as far as possible from other electronic products, motors, etc., to reduce interference;

The remote controller receiver and transmitter has an PCB antenna, keep any metal materials away near the antenna.

As the radio frequency products are affected by the external environment, the performance differences vary greatly. The main points of installation and use are to ensure that the RF signals of the remote controller can be transmitted effectively and reliably.

Proper installation and use are essential to ensure product performance.

Summary: FS-GT15 Rx radio system is a high performance and multiple functions for RC cars. The built-in receiver and ESC make FS-GT15 Rx become a high degree of integration with complex functions product, please be sure to carefully read the user manual in using, avoid wiring error caused damage to the product.

Transmitter troubleshooting

Troubles	Possible Causes	Solutions
After power on, no LED lights up	Batteries are installed abnormal; Battery low	Reinstall the batteries; change the batteries

ESC troubleshooting

Troubles	Possible Causes	Solutions
After power on, no LED lights up	No power is drawn to the ESC; The switch is broken	Check the connections between battery and ESC; Re-solder the connector if needed; Change the ESC switch
Led slowly blink	The transmitter is closed; The transmitter is not paired	Open the transmitter; Re-pair the transmitter
Led blinks once a second	Battery voltage is low.	Change battery.
The vehicle can't reach to the full speed.	Incorrect TH D/R setting; Battery protect due to battery low	Increase TH D/R; Change battery
The vehicle can't motion, but the LED indicators work normally	Battery low cut-off protect; The connection between ESC and motor is interrupted; The motor is damaged	Change battery; Check the connection between the motor and ESC; Change battery.
The motor accelerates rapidly at the startup moment, but has lockout or cogging problem.	The discharge capacity of the battery is not strong enough; The motor rotates too fast, and the gear ratio is too aggressive; Something wrong with the driveline of the vehicle.	Change a battery with better discharge capability; Use a motor with lower RPM, or smaller pinion to soften the gear ratio; Check the driveline of the vehicle

FCC STATEMENT :

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.**

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 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. 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 off and on, the user is encouraged to try 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 receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.