Precautions!

Read the safety messages listed below before operation!

- Do not use the product at night or during bad weather conditions, like rain or thunderstorms. It
- can cause erratic operation or loss of control.
- Do not use the product when visibility is limited
- Do not expose the product to rain or snow. Any exposure to moisture (water or snow) may cause erratic operation or loss of control.
- Interference may cause loss of control. To ensure the safety of you and others, do not operate in



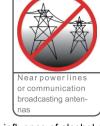


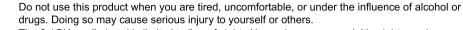












- The 2.4GHz radio band is limited to line of sight. Always keep your model in sight as a large can block the RF signal and lead to loss of control
- Never grip the transmitter antenna during operation. It significantly degrades signal quality and strength and may cause loss of control.
- Do not touch any part of the model that may generate heat during operation, or immediately after use. The engine, motor or speed control, may be very hot and can cause serious burns.
- Misuse of this product may lead to serious injury or death. To ensure the safety of you and your equipment, read this manual and follow the instructions carefully.
- Make sure the product is properly installed in your model. Failure to do so may result in serious
- Make sure that the receiver's battery is disconnected before turning off the transmitter. Failure to do so may lead to unintended operation and cause an accident.
- Ensure that all motors operate in the correct direction. If not, adjust the direction first.
- Make sure that the model stays within range in order to prevent loss of control.
- The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-lacated or operating in conjunction with any other transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.
- Hereby, [Flysky Technology co., Itd] declares that the Radio Equipment [FS-MG41] is in compliance with RED 2014/53/EU.
- The full text of the EU DoC and Appendix 1 of the FCC Statement are available at the following internet address: www.flvskv-cn.com
- CAUTION

Certification

FCC Compliance Statement

including interference that may cause undesired operation.

Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.

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

the user's authority to operate the equipment.

turning the equipment off and on,

EU DoC Declaration

RF Exposure Compliance

Environmentally friendly disposal

(1) This device may not cause interference.

compromettre le fonctionnement.

exploitation est autorisée aux deux conditions suivantes : L'appareil ne doit pas produire de brouillage;

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)

Warning: changes or modifications not expressly approved by the party responsible for compliance could void

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to

interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy

If this equipment does cause harmful interference to radio or television reception, which can be determined by

Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful

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.

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

Hereby, [Flysky Technology co., Itd] declares that the Radio Equipment [FS-R4A3-BS] is in compliance with

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This

body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed

of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With

this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.

Economic Development Canada's licence- exempt RSS (s). Operation is subject to the following two conditions:

(2) This device must accept any interference, including interference that may cause undesired operation of the

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'

2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and

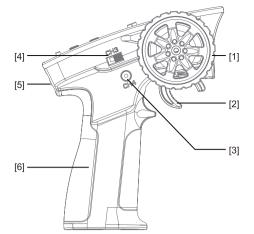
equipment should be installed and operated with minimum distance 20cm between the radiator and your

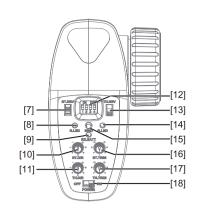
the user is encouraged to try to correct the interference by one or more of the following measures:

The full text of the EU DoC is available at the following internet address: www.flysky-cn.com.

this device may not cause harmful interference, and (2) this device must accept any interference received,

Transmitter Overview





[1]	Wheel Angle, the maximum rotation of the steering wheel is 35 degrees from center to left or right (CH1)	[10]	Steering D/R (ST.D/R)
[2]	Throttle trigger, has a total throw of 12 degrees, 12.5 degrees forward, and 12.5 degrees backward (CH2)	[11]	Throttle D/R (TH.D/R)
[3]	Button (CH4)	[12]	Dial Switch (Switching the working modof the electric dispatching)
[4]	Three-position switch (CH3))	[13]	Throttle Reverse Switch (TH.REV)
[5]	Lanyard Eye	[14]	Status indicator green LED (G.LED)
[6]	Handle, 4 * AAA battery compartment	[15]	Bind Button (BIND)
[7]	Steering Reverse Switch (ST.REV)	[16]	Steering Trim (ST.TRIM)
[8]	Power indicator LED (R. LED)	[17]	Throttle Trim (TH.TRIM)
[9]	Two color LED battery volume (RX.BATT)	[18]	Power Switch

Basic Operations

▶ Install the Battery

Battery Type: AAA

- Battery Installation:
- 1. Open the battery compartment cover. 2. Insert 4 fully-charged AAA batteries into the compartment. Make sure
- that the battery makes good contact with the battery compartment's
- 3. Replace battery compartment cover.
- Low battery alarm: When the battery is lower than 4.2V, the G.LED on the panel will flash slowly.

Note: When installing the battery, please pay attention to the positive and negative poles of the battery to avoid installation errors. (As shown on the right)

Lithium Polymer (LiPo) Battery Warning

• Always charge LiPo batteries on non-flammable, heat-resistant surfaces.

battery chemistry. Use ONLY charger designed for LiPo battery.

· Do not leave LiPo battery unattended during charging.

• Do not discharge LiPo; doing so will damage the battery.

• Do not expose LiPo cell to water or moisture at any time.

• Do not have contact with a leaky/damaged battery directly.

FS-R4P is a receiver in compliance with the ANT protocol, providing

antenna, featuring PPX4 waterproof and the compact design. The receiver will enter the binding state once it is powered on, outputing PWM signal.

4-channel and one-way transmission. It is equipped with bulit-in

· Always store LiPo battery in a secure location away from children. • Always remove the LiPo battery if model is involved in any kind of crash.

· Carefully inspect the battery and connectors for even the smallest damage.

• Always inspect the condition of the battery before charging and operating.

• Do not charge battery out of recommended temperature range(0°C-45°C).

· Do not store battery near open flame or heater

• Do not short circuit the LiPo battery.

It can be adapted to a variety of car models.

Receiver overview

Power anode Power cathode

Do not overcharge the battery.

vehicle.

recharging.

Introduction

• Never charge a lithium polymer battery with a charger designed for Nicd, NIMH, or any other type of

• Always use a LiPo-safe bag or container while charging. Do not allow LiPo cells to overheat at any time.

• Do not charge the LiPo pack while it is still in the model. Never charge or store battery packs in a

· CAUTION: Cells may become hot after usage. Allow the pack to cool to room temperature prior to

• Do not allow the electrolyte to get into eyes or on skin. Wash affected areas immediately if they come

Cells which reach greater than 140 Fahrenheit(60°C) will usually become damaged and will catch fire.

• Do not assemble LiPo cells or pre-assembled packs together with other LiPo cells or packs.

into contact with electrolyte. Do not alter or modify connectors or wires of a LiPo battery pack.

Power on

- Follow the steps below to turn on the transmitter:
- 1. Check to make sure that that battery is fully charged and installed correctly.
- 2. Toggle the switch to the [ON] position. When active the R.LED will be lit.
- 3. Connect the receiver to power.

For safety always power on the transmitter before the receiver.

The transmitter and receiver have been pre-bound before delivery. If you are using another receiver, follow the steps below to bind the transmitter and receiver

- 1. Turn on the transmitter while holding the bind button to enter bind mode. G.LED will start flashing
- Once in bind mode release the bind button.
- 2. The receiver will enter bind mode atomically when powered on.
- 3. Once binding is successful the receivers and transmitter'sLED will remain solid
- Note: When binding, put the transmitter into bind mode first, then the receiver. If the Binding does not finish in 10s, The receiver will guit bind mode automatically.
- This binding information only applies to the FS-MG41 and the HW-709/HW-711/FS-R4A receiver, different receivers may require a different pocedure to complete the binding process. Please visit the official FLYSKY website for the latest information on compatible receivers and their respective usermanuals.
- 🖖 Product information is updated regularly, please visit our website for more information

Stick Calibration

This function is used to set the neutral position for throttle and wheel.

- Every transmitter is calibrated before leaving the factory, however if recalibration is required, please
- 1. Turn and hold the wheel as far clockwise as it will turn, hold the throttle all the way forward, then turn on the transmitter in calibration mode.
- The R.LED and G.LED will flash twice. 2. Calibrate wheel: Turn the wheel completely clockwise, then completely counterclockwise.
- When calibration is completed the R.LED will be off. 3. Trigger calibration: Pull the trigger back then forward as far as it will go.
- When calibration is completed the G.LED will be off.
- 4. Once calibration is complete press the bind key to save and exit.

▶ Failsafe

This function dictates what the receiver will do in the event that it loses signal from the transmitter, this includes servo position etc

- Turn on the transmitter and make sure it is connected to the receiver. Hold the control surface at the desired failsafe position. Press and hold the bind button for 3 seconds, if the G.LED starts flashing every 2 seconds then setup has been successful. Failsafe is now set and will default to these values when the receiver looses signal.
- Note: The fail-safe function has no default set at the factory and as such must be set manually.If no failsafe setting has been set, then the receiver will not output anything when signal is lost.

- Follow the steps below to turn off the system:
- Disconnect the receiver power.
- 2. Toggle the transmitter's power switch to the off position.
- Make sure to disconnect the receiver power before turning off the transmitter. Failure to do so may lead to damage or serious injury.

Installation

the receiver antenna should be vertical!

2

The receiver has a built-in antenna. In order to ensure the signal quality and avoid the remote control distance affected, ne receiver antenna should be perpendicular to the model body (as shown in the figure) when installing the receiver, and

Binding

- The receiver automatically enters the binding state once it is powered on.
- 1. First put the transmitter into bind mode (See the transmitter's user manual for instructions on how to activate bind mode.) 2. When the receiver is powered on and waits for 1 second, it will automatically enter the binding state if it is not connected.
- 3. After the receiver LED becomes slow flashing, then restart the transmitter or put the transmitter to exit the binding state. At this time, the
- receiver LED is solid on indicating the binding is successful. 4. Verify that the transmitter and receiver are working properly. If you need to re-bind, repeat the above steps.
- 1. Set the transmitter to its binding state first, and then set the receiver to its binding state. If the binding is not finished within 10s, the LED of the
- 2. Because this receiver only supports one-way binding, if the binding transmitter supports one-way and two-way mode binding, please set the

Failsafe

This function protects the user by preventing the model from behaving unexpectedly if signal is lost. The receiver defaults to have no signal output after it is out of control. If you set failsafe value at the transmitter side, the set value will be output if the signal is lost.

one-way mode at the transmitter side before starting the binding

- Make sure the product is installed and calibrated correctly, failure to do so may result in serious injury. • Make sure the receiver's battery is disconnected before turning off the transmitter, failure to do so can result out of control.
- nreasonable setting of the Failsafe may cause accidents. · Make sure the receiver is mounted away from motors, electronic speed controllers or any device that emits excessive
- Keep the receiver's antenna at least 1cm away from conductive materials such as carbon or metal.
- Do not power on the receiver during the setup process to prevent loss of control.

WP MINI24 RTR





Thank you for purchasing this product! We strongly recommend reading through this user manual before use. Since we have no control over the use, installation, or maintenance of this product, no liability may be assumed for any damage or losses resulting from the use of the produc We do not assume responsibility for any losses caused by unauthorized modifications to our product. We, are only responsible for our product cost and nothing else as result

3

Product Name

Channels

Model Type

RF power

Distance

Power Input

Dimension

Certificate

Weight

2.4GHz system

Channel Resolution

Low Voltage alarm

Temperature Range

Specifications

Number oChannels: 4

Number of Lights: 7

2.4G Protocol: 2A-BS

Antenna: Single antenna

an internal short-circuit.

RF: 2.4GHz ISM

• Product Name: FS-R4A3-BS

Adaptive Transmitters: FS-MG43-BS

Continuous/Peak Current: 10A/50A

Charging the Battery

3. Do not let the battery charge unattended!

Humidity Range

0.0

FS-MG41

Car. Boat

2.4 GHz

1024

Less than 20 dBm

Less than 4.2 V

-10°C—+60°C

20-95%

130g

Adaptive Models: 1:18 simulation cars, climbing cars
 Humidity Limit: 20%~95%

Input Power: NiMH (5~7Cell)/ 2S Lithium batteries
 BEC Output: 6V/1A

1. Connect the charger to a USB port then connect the battery to the charger.

2. When charging, the status LED is red, when charged, the status LED is green.

6V DC 1.5AAA*4

118mm x 73mm x 145mm

CE, FCC ID: N4ZMG400

>150m(ground distance without interfence)

Data Output: PWM

WaterProof: PPX4

Online Update: NO

Weight: 11g

4. If the battery or charger is hot, disconnect the battery and charger immediately as this may be caused by

• Temperature Range: -10°C ~ +60°C

Certification: CE, FCC ID: N4ZR4A31

• Distance: >150m(Ground distance without inference)

• Dimensions: 33mm*30mm*12mm (Excluding capacitor)

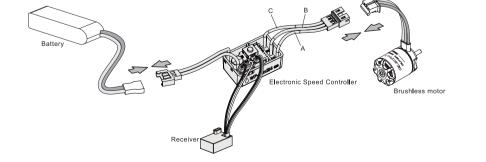
Read the manuals of all the items being used in the build. Ensure gearing, setup, and overall install is correct and reasonable.
t is important to ensure that all wires soldered are properly secured to avoid short circuits from happening. A good soldering station is recommended to do such a job to avoid overheating the circuit board as well as to ensure connections are properly soldered.
Even though the product has relevant protective measures, always use it in a safe manner in accordance with the operating environment noted in the manual

(e.g., voltage, current, temperature and etc).
The battery must be disconnected after use. There is a small draw even when the system is off, and will eventually fully drain the battery. This may cause damage to the ESC, and will NOT BE COVERED UNDER WARRANTY

03 Specifications

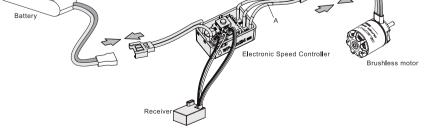
Model	WP MINI24 3S RTR	
Cont Current	20A	
Supported types of motors	Sensorless brushless motor	
Applications	1/24 Vehicles, 1/18&1/16 Crawlers	
Applicable motors	Outer 1621, mainstream 1212, 1806 sensorless outrunner motors	
LiPo Ce ll s	2-3S LiPo	
BEC Output	6V, Continuous Current of 1.5A	
Size/Weight	28.1mm*17.9mm*12mm/10.8g (Included wires&connectors)	
Programming Port	Independent programming port	

04 Connections



Refer to the wiring instructions and wiring diagram

please do not supply additional power to the receiver, otherwise the esc may be damaged. If additional power is required, disc



The #A/#B/#C of the ESC can be connected to the three wires of the motor randomly. If the direction of rotation is reversed, exchange the two motor wires or

Connect the ESC throttle cable to the throttle channel on the receiver. Since the throttle cable of esc will have BEC voltage output to the receiver and servo,

Make sure that the (+) pole of the ESC is connected to the (+) pole of the battery and (-) to the (-). If the connection is reversed, the ESC will be damaged and wi

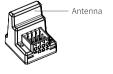
• Input Power: 3.5 ~ 8.4V/DC

5

IC: 25584-R4A31

Distance: > 150m (Ground distance without interference)

VCC(Power anode)



Product specification

- Product Name: FS-R4P • Compatible Transmitters: Transmitter with ANT protocol, such as FS-
- G4P, FS-G7P (Refer to TX-RX FORM on the official website for details.) Model Type: Cars
- PWM Channels: 4 RF: 2.4GHz ISM
- · 2.4G Protocol: ANT
- · Antenna: Single bulit-in antenna
- Working Current: 70mA(5V) Data Output: PWM Temperature Range: -10°C ~ +60°C Humidity Range: 20% ~ 95% Waterproof: PPX4
 - · Online Update: No • Dimensions: 22.6*20.6*25.5mm
 - Weight: 6g Certification: CE, FCC, UKCA

05 ESC Setup Set the Throttle Range-ESC Calibration P The calibration must be done on the first use of the ESC, or if a new radio or receiver is installed, the throttle range is need to reset. We strongly recommend to open the fail safe function of the transmitter, set the no signal protection of throttle channel ("F/S") to close the output or set the protection value to the throttle neutral position. Thus the motor can stop running if the receiver cannot receive the signal of the transmitter. The calibration steps are below. Turn on the transmitter, ensure all parameters (D/R, EPA, ATL) on the throttle channel are at default (100%). For transmitter without LCD, please turn the knob to the maximum, and the throttle "TRIM" to 0. (If the transmitter without LCD, turn the knob to the middle point). This step can be skipped if the transmitter's Start by turning on the transmitter with the ESC turned off but connected to a battery. Holding the "ON/OFF" button, the RED LED on the ESC starts to flash the motor beeps at the same time, and then release the ON/OFI • Leave transmitter at the neutral position, press the "power" button, the GREEN LED blinks 1 time and the motor beeps 1 time to accept the neutral position. • Pull the throttle trigger to the full throttle position, press the "power" button, the GREEN LED blinks 2 times and the motor beeps 2 times to accept the full throttle position. • Push the throttle trigger to the full brake position, press the "power" button, the GREEN LED blinks 3 times and the motor beeps 3 times to accept the full reverse/brake position. 4. The motor can be started after the ESC/Radio calibration is complete. 2 Power on/off and beep instructions ritch instructions: short press power button to power-on, long press on power button to shut down. nstruction for sound: Start in normal condition(Not setting throttle range), the times of beep emitted by motor indicates the number of LiPo Cells, for example, Beep, B

4. Drag Brake Rate Level 1 Level 2 Level 3 Level 4 Level 5 Level 6 Level 7 Level 8 Level 9

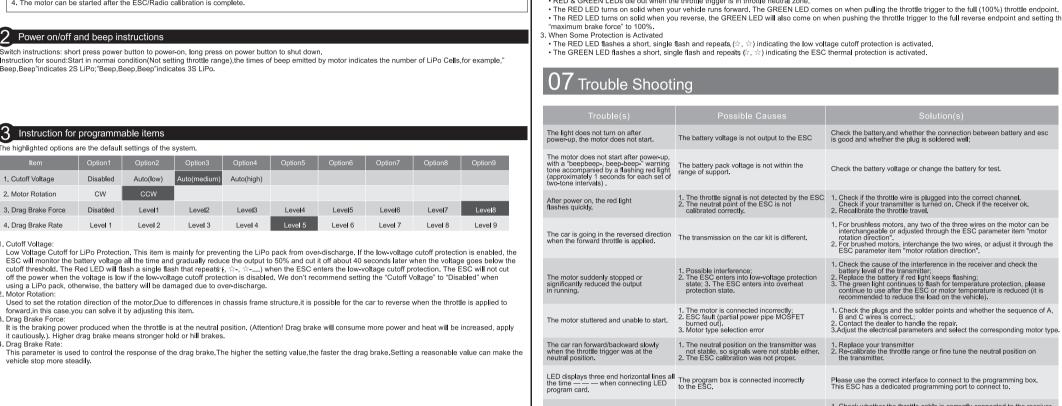
Motor Rotation:
 Used to set the rotation direction of the motor. Due to differences in chassis frame structure, it is possible for the car to reverse when the throttle is applied to forward, in this case, you can solve it by adjusting this item.
 Drag Brake Force:

 It is the braking power produced when the throttle is at the neutral position. (Attention! Drag brake will consume more power and heat will be increased, apply it cautiously.). Higher drag brake means stronger hold or hill brakes.

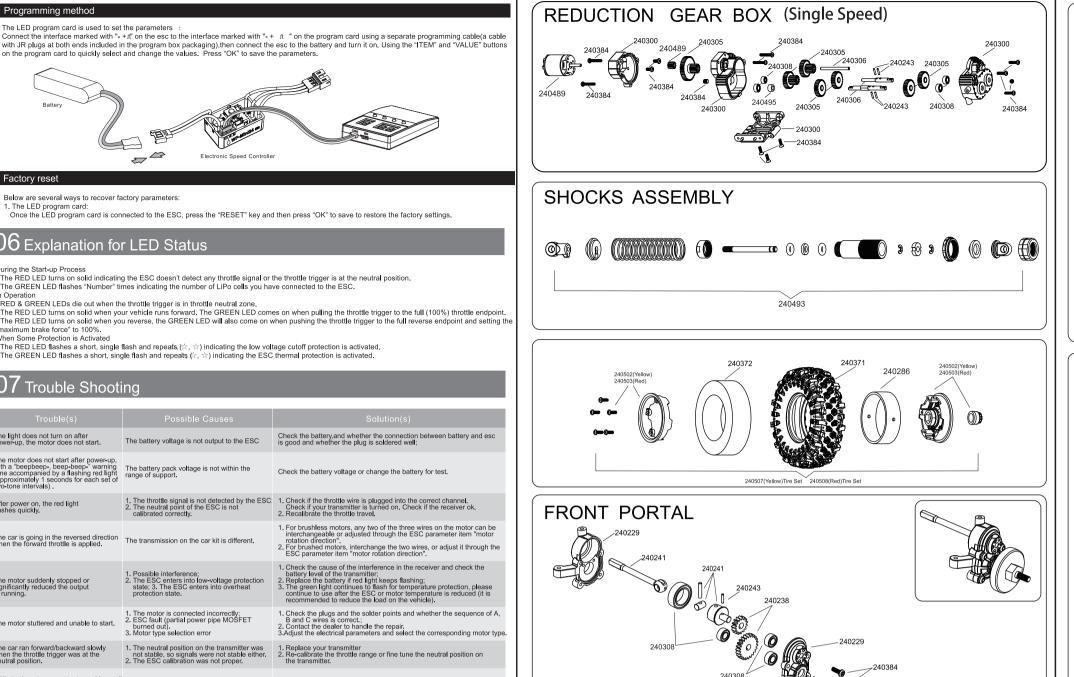
 Drag Brake Rate:

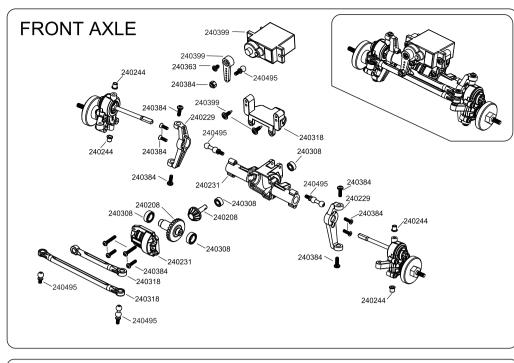
 Drag Brake Rate:

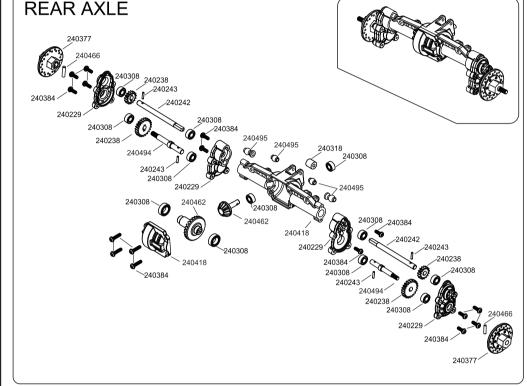
e highlighted options are the default settings of the system.



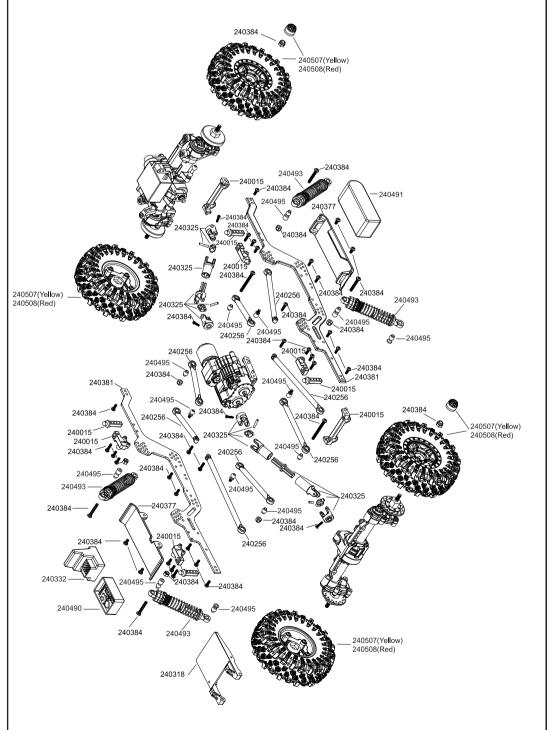
The ESC did not receive the correct

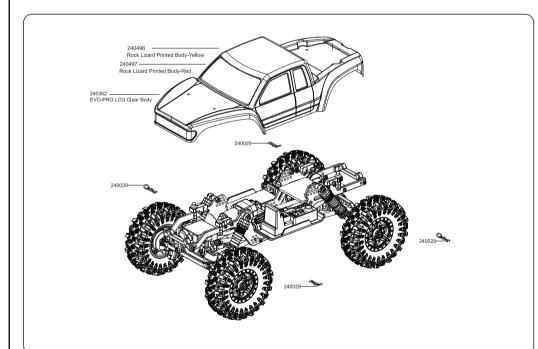






11





10

Spare parts list

Spare parts list

13

The throttle travel setting could not

. The LED program card is used to set the parameters

06 Explanation for LED Status

• RED & GREEN LEDs die out when the throttle trigger is in throttle neutral zone.

Connect the interface marked with "-+ π " on the esc to the interface marked with "-+ π " on the program card using a separate

Below are several ways to recover factory parameters:

1. The LED program card:

Once the LED program card is connected to the ESC, press the "RESET" key and then press "OK" to save to restore the factory settings.

. During the Start-up Process

• The RED LED turns on solid indicating the ESC doesn't detect any throttle signal or the throttle trigger is at the neutral position.

• The GREEN LED flashes "Number" times indicating the number of LiPo cells you have connected to the ESC.

