

1/12-SCALE 4WD BRUSHLESS RALLY CAR

Manual

www.zdhobby.com



2.4GHz
RADIO SYSTEM

RTR
READY TO RUN

70
KM/H

4WD
POWERFUL

1:12
SCALE

14+
YEARS

35C Li-Po

This manual expatiates the structure of the model. In order to better maintain and replace the spare parts, please keep and take it for reference. The user who is not familiar with the assembling, please contact with the wholesaler, nominated model shops and the Special after-sale service outlets.

The actual version is subject to the real standard. It would be varied because of different versions.



www.zdhobby.com

ZD Racing
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Made in china

The spare parts, appearance of this model will be tiny revised and changed before totally upgrade into a new version, ZD reserve this rights, and no further notice.

INTRODUCE

Thank you for choosing the ZD racing series products. Our company take the target of offering the top quality and best service. Through attending the competitions and repeated testing the products, constantly enhancing our experience, then further improving the design and quality control. Only for showing the great performance products. This manual including all the important matter before operating the car. We advise studying and knowing the control system before assembling or playing it. As well as the further upgrade and maintenance. Please feel free to consult our authorized dealer, nominated model shop or special after-sale service station if any question refer to the play or use. Our website is: www.zdhobby.com. We are wholeheartedly for your service.

QUALITY ASSURANCE

Our company take the fully responsibility to the quality defect during the manufacturing process. This assurance is only subject to the product only and its spare parts.

These situation below are not included:

The breakage caused by using, assembling or adjustment.
The other breakage not related to the quality itself.

IMPORTANT STATEMENT

The Model Car is not a toy. It is the casual item combine a lot of high technology products. If using improper may bring serious damage. Please read the manual detailed before using, and keep yourself safe.

Attention: Any operation of the Model car, the manufacturer and dealers are incapable of take the responsibility of the accidents caused by wear out or abnormal assemble.

This product is provided to those who have operation remote control model car experience or a technical personnel in the guidance of the local legal field, in has to ensure the safe and correct operation under the condition of use. Our company will not accept any operation and use the control on any performance and safety responsibility

The RC products are belong to consumable goods, if disassemble, it may cause the spare parts loss. Any use of goods caused by bad or not satisfied, will not be able to replace or return, such as in case of operation maintenance problems, the company designated national distributor model shop and special after-sale service store will provide technical guidance, and special parts supply services.



Warning: because of the neglect of these operating instructions, and use wrongly may cause property damage or serious injury.

Note: because of the neglect of these operating instructions, and use wrongly could be dangerous.

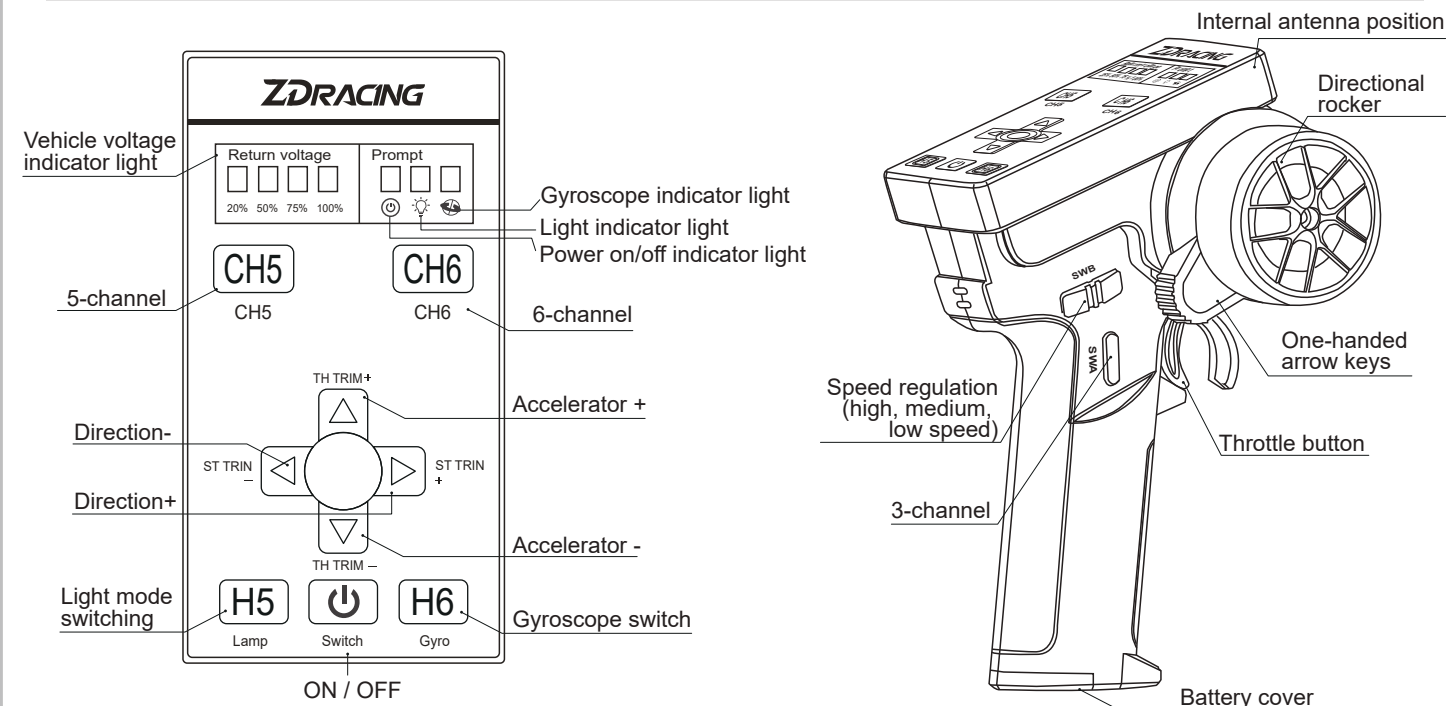
Ban: in any prohibited environment, do not try to operation.

SAFETY GUIDELINES

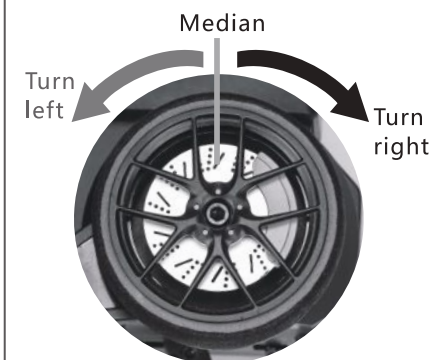
1. Don't operation the models close to open fires or near heat source.
2. Operation must be in the open and dry site .
3. The thunderstorm weather is forbidden to operate this product.
4. Away from the high voltage cables.
5. Some of the parts will be exothermic or burning after operated.
6. Please do not use hand or foreign body contact activities of the parts before cut off the power supply,

7. During the operation, if foreign matter or liquid get into eyes, please timely with plenty of water flush eyes, and immediately consulting professional doctor. As the body is injured, please seek immediate medical attention.
8. Keep out of the reach of children, this is not toy, strongly suggest adult supervision.
9. Placed in ventilated and dry place, do not use, take the battery out.
10. The product items do not diet or swallowed.

RADIO-Part Number

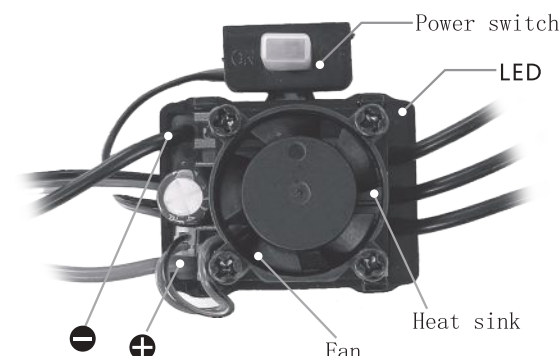


overtake
Brake and retreat

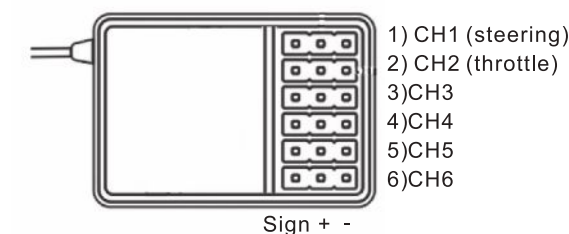


1. Put 18650 batteries into the battery tank (Please note the Positive and Negative)
2. If the remote control indicator flashes, it indicates that the power supply is insufficient

Brushless ESC receiver



Brushed ESC receiver



CHARGING THE BATTERY PACK

- Once the battery ready to be charged, first plug the AC quick charger into the outlet of AC power source, and then connect the battery input/output harness to the charger.
- Continued to monitor the battery as it is being charged. As soon as the battery is fully charged, disconnect the battery from the charger plug (Over-charging or charging incorrectly using inadequate chargers may cause the battery pack to become dangerously hot).
- For best results, let the battery pack cool before charging. Heat may prevent the battery pack from charging to full capacity and also decreases the performance of the battery.

Li-PO battery



Ni-MH battery



BATTERIES

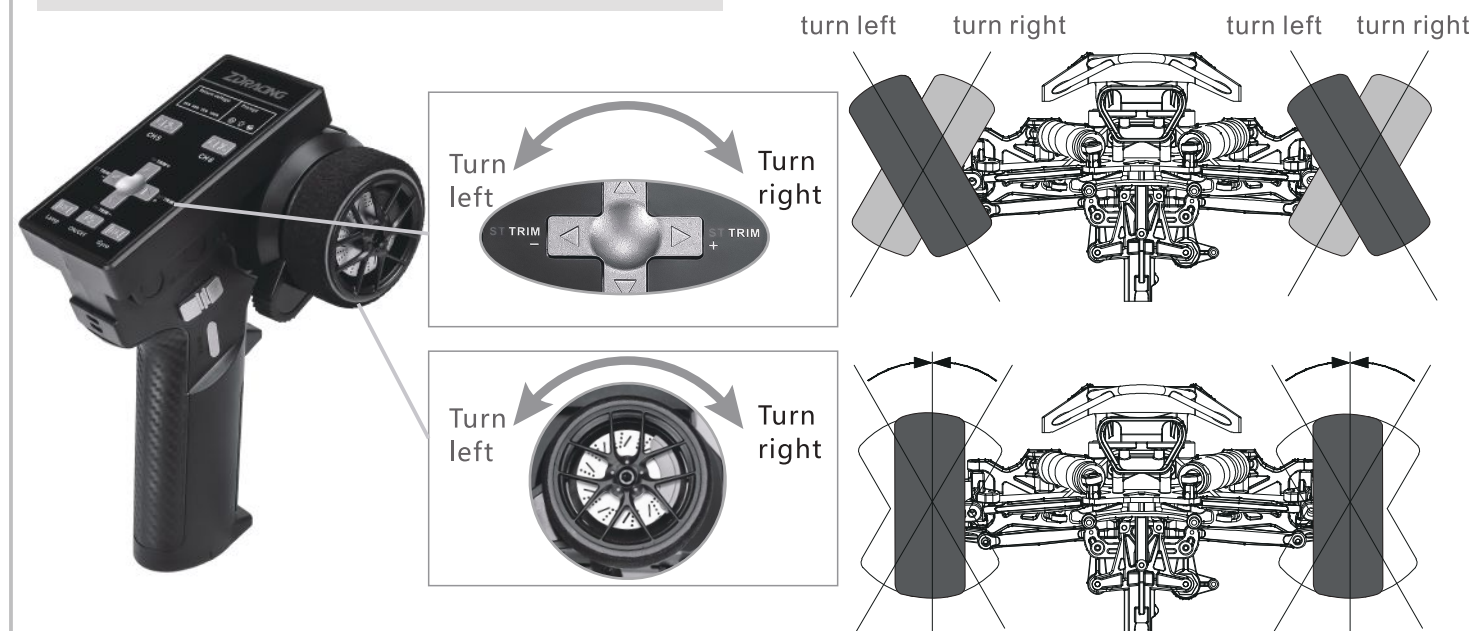
Lithium Polymer (Li-Po) batteries are becoming popular for use in R/C models due to their compact size, high energy density, and high-current output. However, these types of batteries require special care and handling procedures for long life and safe operation.

Warning: Lithium Polymer (Li-Po) batteries are intended only for advanced users that are educated on the risks associated with Li-Po battery use. THUNDER TIGER/ACE RC does not recommend that anyone under the age of 16 use or handle Li-Po battery packs without the supervision of a knowledgeable and responsible adult.

- Important:**
- Do not use NiCd/Ni-MH battery chargers for Li-PO batteries. If you do not use a special charger for Li-PO battery, they will be damaged.
 - If the battery is swollen or damaged, it is forbidden to use.
 - Do not charge for long periods when left unattended.

Please note! Consumers for use or installation of lipo battery in the remote control model belongs and cause any Direct or indirect damages, our company will not bear any legal liability.

Steering operation guide

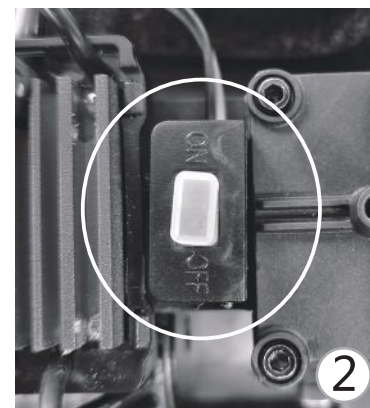
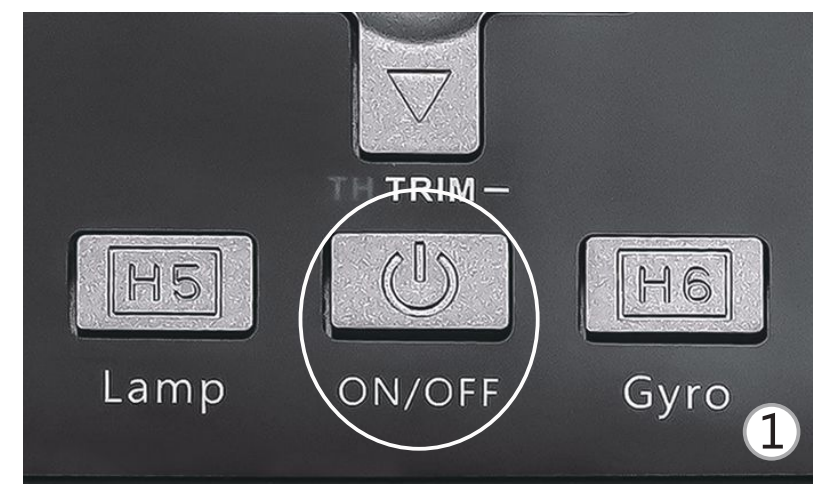


- slowly rotating around the steering wheel, the car will be slow to the right or to the left accordingly (when there is no consistent please toggle on the remote control ST direction and rudder switch).
- when the cars can't run straight, you can adjust the direction of the remote control on the median knob, until the vehicle can run straight.

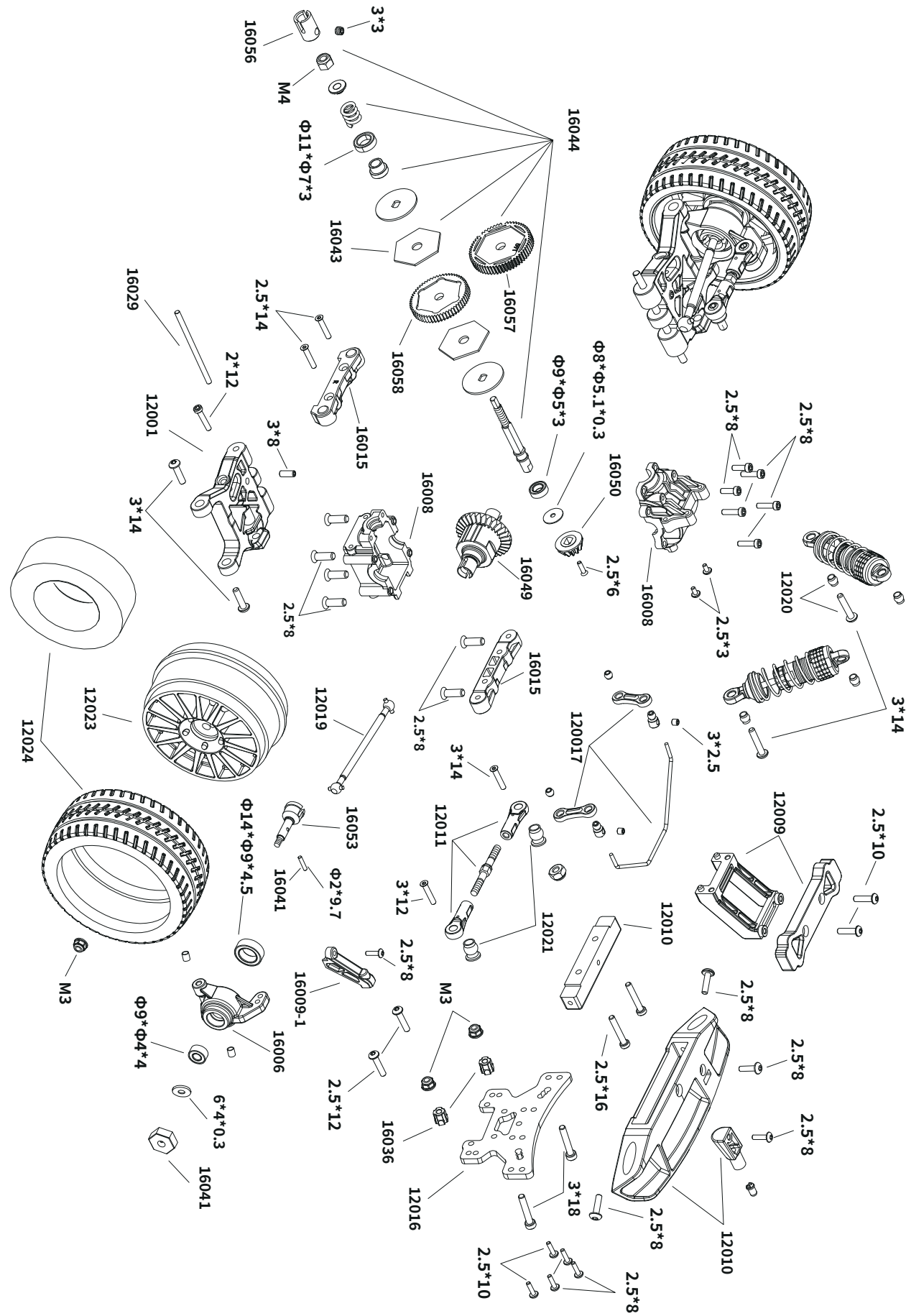
- ◆ Adjust the Median trimming to keep the front wheel in the center position
- ◆ When testing the diversion of the car, please keep the front wheel hang in the air.

Racing Steps

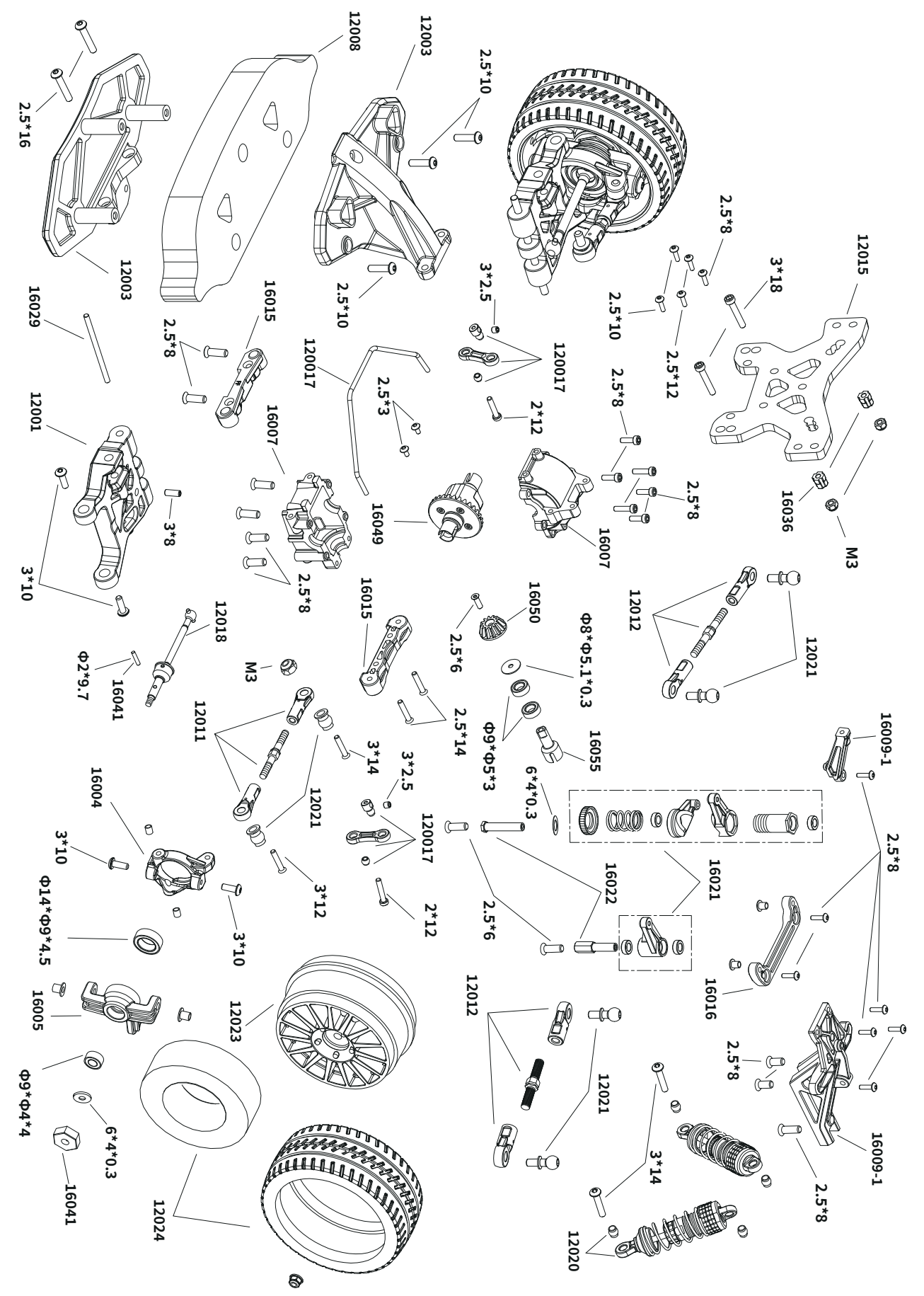
- Turn on the remote control switch, the power indicator flashes.
- Connect the power cord and turn on the ESC switch, automatic frequency matching at startup, and the power light stops flashing
- Turn the steering wheel and throttle trigger, everything is normal, you can go running.
- Finish racing, Turn off the ESC and off the radio, disconnect the power plug.



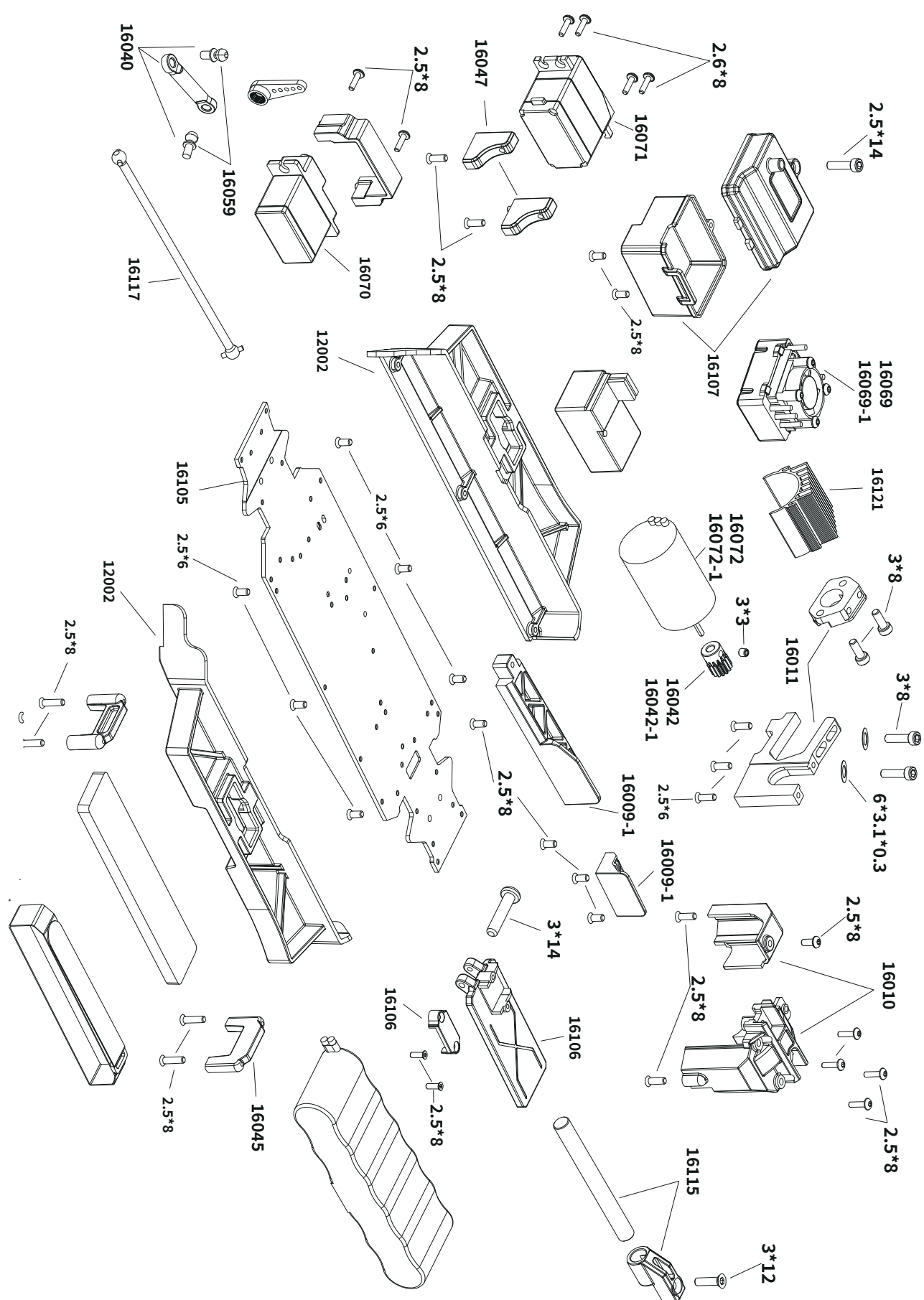
REAR SUSPENSION ASSEMBLY



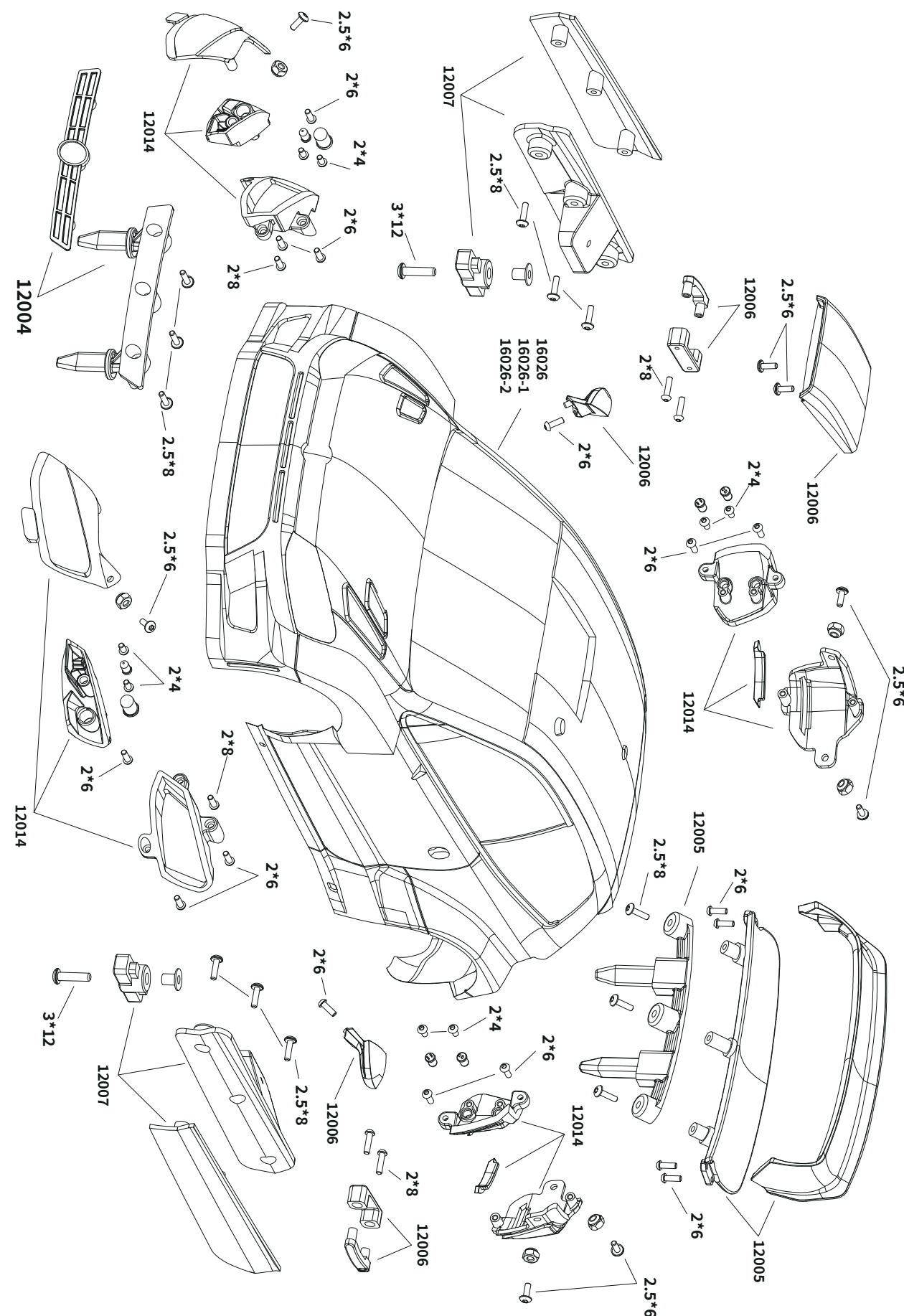
FRONT SUSPENSION ASSEMBLY



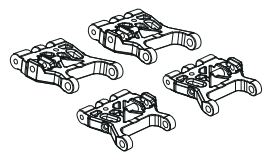
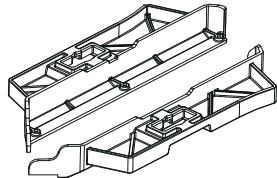
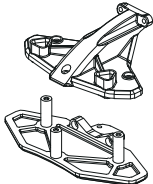
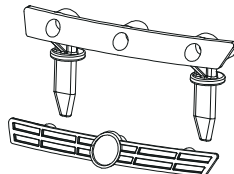
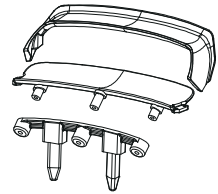
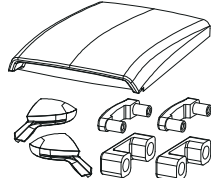
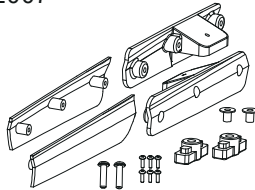
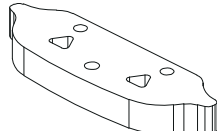
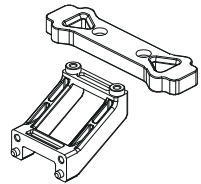
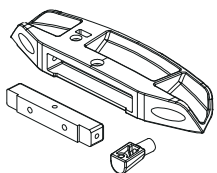
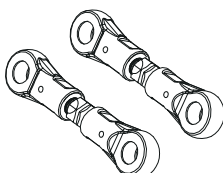
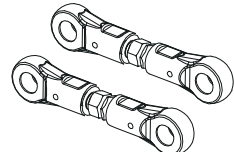
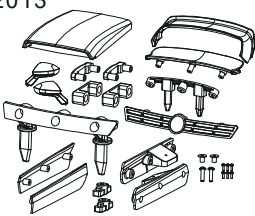
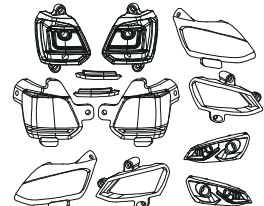
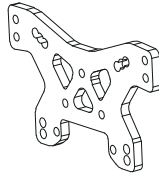
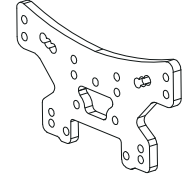
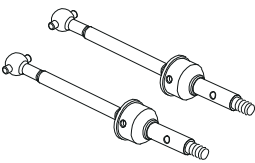
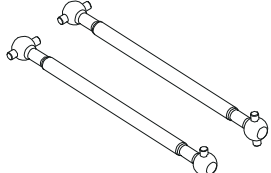
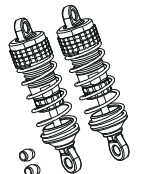
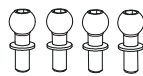
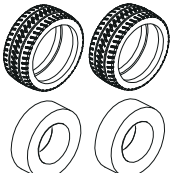
BASE PLATE ASSEMBLY



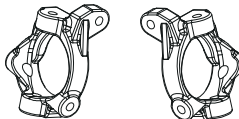
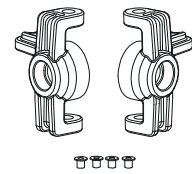
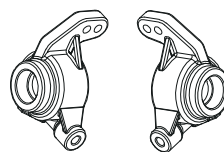
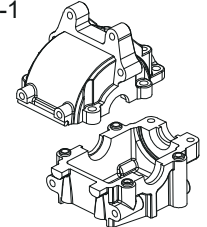
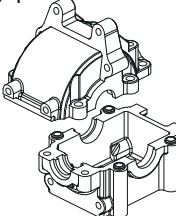
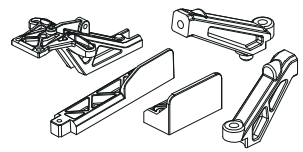
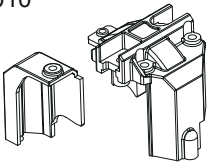
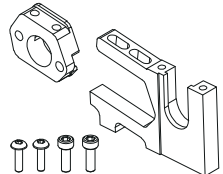
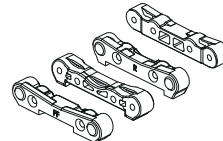
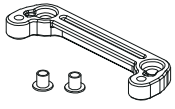
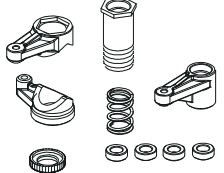
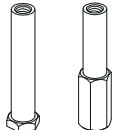
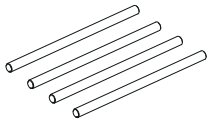
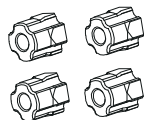
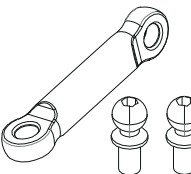
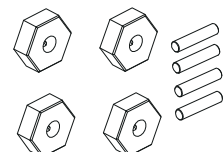
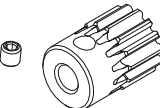
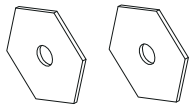
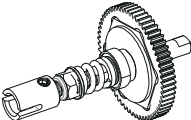
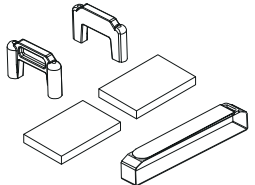
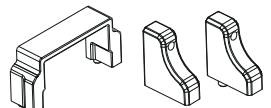
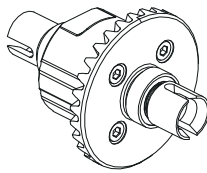
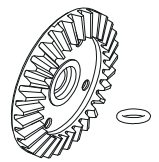
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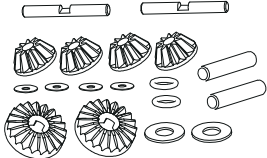
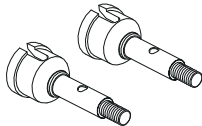
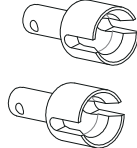
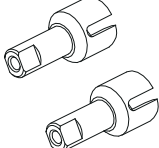
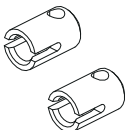
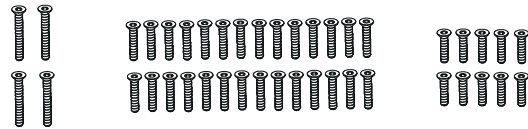
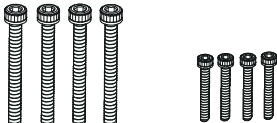
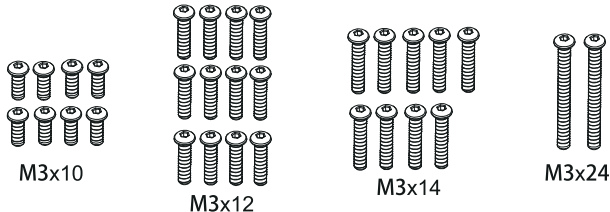
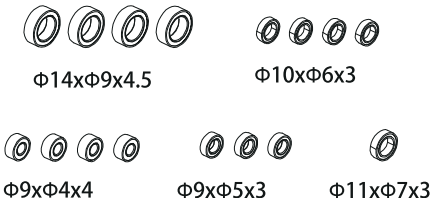
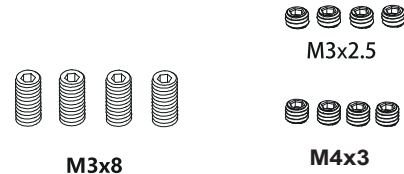
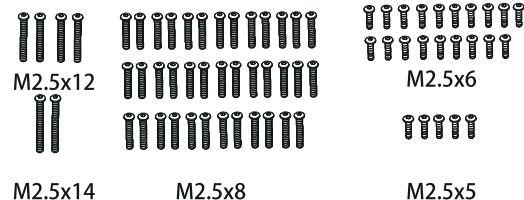
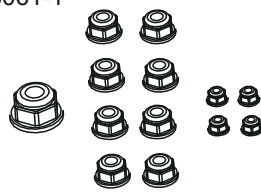
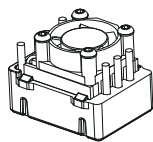
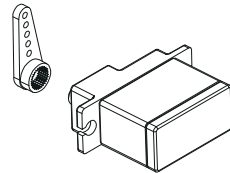
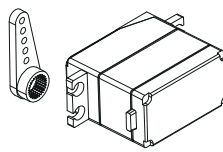
GENERAL REPLACEMENT PARTS

12001  F/R Lower suspension arm	12002  Left and right side panels	12003  Front Bumper Plate	12004  Front carapace pillar
12005  Rear empennage carapace pillar	12006  Exterior Parts of Car Shell	12007  Body left and right baffles Body lock	12008  Crash cushion
12009  Rear wing panel	12010  Rear spoiler	12011  Adjustable upper tie rods	12012  Adjustable steering rod sets
12013  Exterior Parts of Car Shell Assembly	12014  F/R light clusters	12015  Front Shock Plate CNC	12016  Rear Shock Plate CNC
12017  Sway bar set	12018  Front Universal drive shaft	12019  Rear Horizontal drive shafts	12020  Shock Absorber
12021  Tie Rod Ball Head	12022  Steering tie rod ball head	12023  tire frame	12024  Front tires and Sponge Set

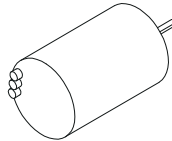
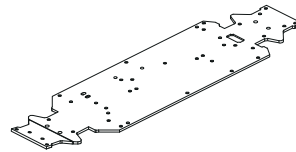
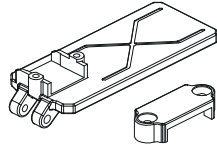
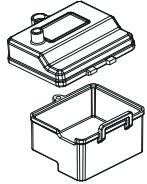
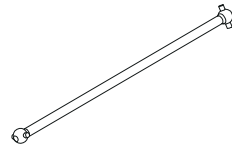
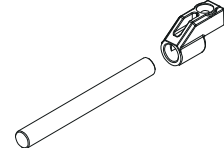
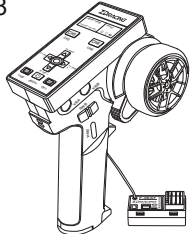
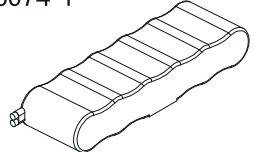
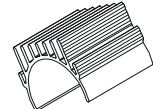
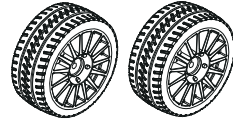
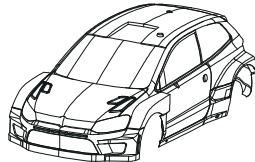
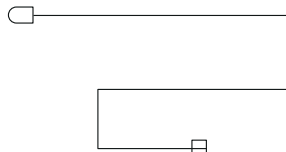
GENERAL REPLACEMENT PARTS

16004-1  F/R C mounts	16005-1  F/R Steering cups	16006-1  F/R Rear hub	16007-1  Front gear box
16008-1  Rear gear box	16009-1  F/R shock tower reinforcing block	16010  Motor mount cover	16011  Motor mount
16015  F/R Suspension hinge pin holder	16016  Steering Connecting Plate	16021  Steering sets	16022  Steering shafts
16029  Lower Suspension Pins	16036  Shock pillar	16040  Servo rod sets	16041  Wheel hex nuts
16042 16042-1  15T Motor gear 21T Motor gear	16043  Asbestos paper friction plate	16044  slipper clutch complete with main gear	16045  Battery mount
16047  Servo mount	16049  Differential	16050  Differential gear	16051  Differential crown gear

GENERAL REPLACEMENT PARTS

16052  Differential bevel gear	16053  Rear hub carrier axle	16054  Planet gear joints	16055  Differential out drives
16056  Drive cups	16059  4.0 ball screws	16062  M2 5x14M2.5x8M2.5x6	
16063  M3x18Mx12	16064-1  M3x10M3x12M3x14M3x24		
16065  Φ14xΦ9x4.5Φ10xΦ6x3Φ9xΦ4x4Φ9xΦ5x3Φ11xΦ7x3	16066  M3x8M3x2.5M4x3		
16067  M2.5x12M2.5x14M2.5x8M2.5x6M2.5x5	16068  M2.5x16M2.5x10M2.5x8		
16061-1  M4M3M2.5	16069 16069-1  ESC 35A ESC 25A	16070  Servo 17g	16071  Servo 25g

GENERAL REPLACEMENT PARTS

16072 16072-1  2847Motor 2440Motor	16105  Chassis CNC	16106  ESC plate / Middle shaft Fixed block	16107  Receiver box
16117  Vertical drive shafts	16115  Center shaft fixing block	12028  Planet Gear Joints	16074 16074-1  2200mAh Battery 1700mAh Battery
R16121  Heat Sink	12025  Tire Set	12026  PVC Car body	12026-1  PVC Car body
12026-2  Transparent car body	12027  Lighting Cable Group		