INSTRUCTION MANUAL

1/8 Scalr 4WD Electric Truggy RTR



- O Cobra EBD (NO.RH817)
- O Cobra EBL (NO.RH818)

Congratulations on your purchase of the VRX Racing 4WD electric cars.

This 1/8th scale model has been factory assembled and all electrics installed and set up to make it the easiest possible. introduction to the sport of driving RC cars.

WARNNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and serious injury. This is not a toy and must be operated with caution and common sense. Failure to operate this product in a safe and responsible manner could result in damage, injury or damage to other property. This product is not intended for use by children without direct adult supervision. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, set-up or use, in order to operate correctly and avoid damage and serious injury

Safety Precautions and Warnings

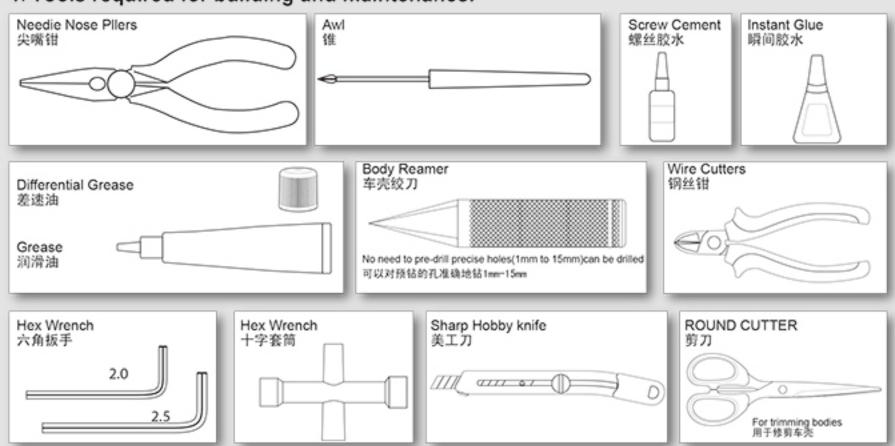
You are responsible for operating this model such that it does not endanger yourself and others, or result in damage to the product or the property of others. This model is controlled by a radio which is possibly subject to interference which can cause momentary loss of control so it is advisable to always keep a safe distance to avoid collisions and injury. Age Recommendation: 14 years or over. This is not a toy. This product is not intended for use by children without direct adult supervision.

Carefully follow these directions and warnings, plus those any additional equipment associated with the use of this model, chargers, ESC and motors, radio etc.

- Never operate your model with low transmitter batteries.
- Always operate your model in an open area away from cars, traffic or people.
- Never operate the model in the street or in populated areas.
- Always keep the vehicles in direct line of sight, you cannot control what you cannot see!
- Keep all chemicals, small parts and anything electrical out of the reach of the children.
- Avoid water exposure, moisture causes damage to electronics and may result in the loss of control or permanent damage.
- Avoid injury from high speed rotating parts, gears and axles etc.
- Novices should seek advice from more experienced people to operate the model correctly and meets its performance potential.
- · Exercise caution when using tools and sharp instruments.
- Do not put fingers or any objects inside rotating or moving parts.
- Take care when carrying out repairs or maintenance as some parts may be sharp.
- Do NOT touch equipment such as motor electronic speed control and battery, immediately after using your model because they can generate high temperatures.
- Always turn on your transmitter before you turn on the receiver in the car Always turn off the receicer before turning your transmitter off.
- Keep the wheels of the model off the ground, keep your hands away from the wheels when checking the operation of the radio equipment.
- Prolong motor life by preventing overheat conditions. Undue motor wear can result from frequent turns, rapid change of direction forwards/backwards, continuous stop/starts, pushing/pulling objects, driving in deep sand and tall grass, or driving continuously up hill.

Required equipment for operation

1. Tools required for building and maintenance:



WARNING!

Do not use a power screw driver to install screws into nylon or plastic materials. The fast locking may heat up the screws being installed that may break the molded parts or strip the threads during installation.

2.Additional items needed for operation:





8 pcs AA Alkaline batteries for transmitter

IMPORTANT!

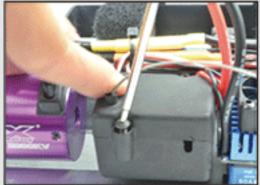
Check that all screws and nuts are tight before each use.

Aerial Assembly

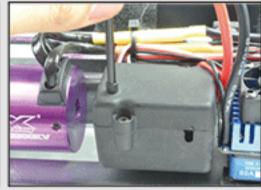
As the aerial wire on 2.4GHz system is so short you do not need to protrude through the body shell and it can be left to stand directly from the receiver. If you want the security of an aerial tube away simply cut it short, and insert in the usual way but do NOT bend over the last 5mm of aerial wire to retain it under the rubber cap, last two inches of aerialwire need to be straight with no kinks for maximum range and control with 2.4GHz system.

First be sure to insert the wire up through the receiver cover hole as below. Push the wire all the way through the aerial tube until the first 5mm of wire shows out of the other end. Finally make aerial tube firmly seated.









Cobra EBL

Charging/Installing the Battery.

Always store your model with the battery pack unplugged and removed. Always charge your battery away from the vehicle.

WARNING! NEVER LEAVE THE BATTERY UNATTENDED WHILE ON CHARGE

The supplied charger can charge either 2s or 3s (cell number) Lipo batteries. The supplied battery is a 2s ensure you plug it into the correct 2s balance port.

When the charger is connected to the mains powers the power LED will turn green. Once your connect your balance connector to the charge the status LED will turn red indicating that charging is in progress. Once the battery is fully charged the status LED will turn green. If you experience the LED blinking red then there is an error with either the battery or charger.

When charging a completely discharged battery, the charger can become hot to touch. NEVER LEAVE THE BATTERY CHARGE UNATTENDED. Always disconnect the charger from the mains supply and the battery pack when not in use.

To install a charged battery, firstly remove the body shell and insert the battery into the battery case, then fasten the two Velcro straps to fix the battery stably. When connecting battery and turning car on, ensure it is off ground with wheels away from objects.



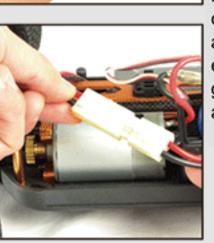


Cobra EBD

Charging/Installing the Battery.

Always store your model with the battery pack unplugged and removed. Always charge your battery away from the vehicle. The included 300mAh mains charger will take approx 6 hours to charge a fully discharged battery, but always remove it from the charger if it becomes warm to the touch. Always disconnect the charger from the mains supply and the battery pack when not in use. Keep children away from charger and battery during the charging process.





To install a charged battery, firstly remove the body shell and insert the battery into the battery case, then fasten the two Velcro straps to fix the battery stably. When connecting battery and turning car on, ensure it is off ground with wheels away from objects.

Notes on Battery use:

Always allow the battery cool after use, before recharging.

Always inspect the battery before charging.

Any bare wires, split heat shrink or leakage is a sure sign of abuse.

Never attempt to charge dead or damaged batteries.

Do not disassemble the battery or cut the connector wires.

If the battery connector, battery case or cable insulation get hot enough to melt or split there is most likely a serious problem with your model, battery wires or speed controller. Find and correct the problem before installing another charged battery pack.

NEVER charge the battery unattended incase of overcharging, you need to be able to monitor the battery during charging.

Charge away from flammable objects and on a non-flammable surface incase the battery becomes too hot.

Getting Started

Refer to 2.4ghz binding manual for radio set-up.

Switch on transmitter

Hold vehicle clear of the ground, connect battery pack and switch on receiver.

Test the transmitter to check control of the vehicle with wheels off the ground.

Start driving slowly and if the vehicle does not go straight ,adjust steering trim dial on Transmitter.

For the very first run use the throttle gently, to help the driver become accustomed to the vehicles behaviour and controls.

Although this vehicle features waterproof electronics they are not designed to be submerged in water.

Potential damage can still occur to vehicles components if you do so.

After Run.

Switch off the receiver power, switch off the transmitter. Disconnect the battery and remove it from the vehicle, allow it to cool before recharging. If you have a second charged battery all ready to use, still allow the vehicle to cool slightly before continuing.

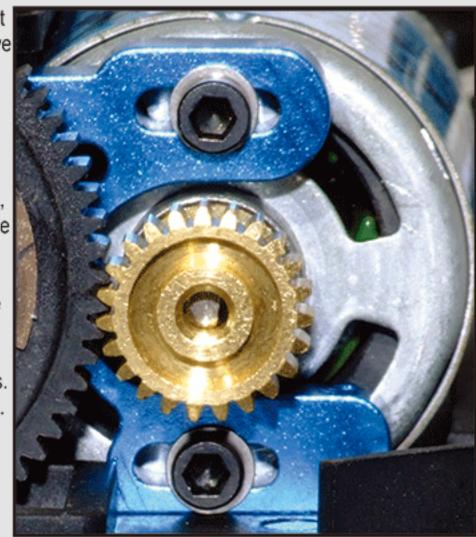
Regular maintenance.

Frequently check the whole vehicle for loose or missing fixings. Use thread lock on any replacement screws into metal threads.

Frequently check rotating parts are free from grass, stringetc. that might bind their motion and over stress the motor or speed controller. Remove the wheels occasionally and check behind the mounting hex for obstructions oranything that might have been wrapped around the axleand caused extra drag.

Check the gear mesh frequently and remove any stones or grit from gear teeth to prevent premature wear and damage. If the motor moves, or is removed for maintenance/exchange, the gear mesh will need to be set. Simply slacken the motor retaining screws and adjust the motor until there is just discemable backlash between pinion and spur teeth. If the gear is too tight or too loose the gears will be noisy and could be damaged.

Shock absorbers will wear prematurely if used in dirty dusty conditions. Replace oil and seals as required to keep a smooth dampening action.



Trouble shooting guide.

Short Runtime: Battery damaged/not charged. Motor dirty or brushes w

Motor dirty or brushes worn. Drivetrain binding. Sluggish Action: Motor damaged. Bind in drive train. Battery running low on power.

Motor/ESC overheat: Over-geared Binding transmission. Seized axle bearing. Motor binding. Motor spins but vehicle refuses to move:
Gears damaged.
Gears loose on shaft.
Magnets debonded from motor armature.
Slipper clutch too loose.
Drive shaft broken or missing.

Poor Range or fails to operate:
Transmitter batteries low.
Vehicle Battery Low.
Transmitter switched off.
Transmitter/receiver aerial not extended.
ESC switched off or battery not connected.
Loose connectors/wires.
2.4ghz binding with
-receiver lost

LIPO BATTERY-USER SAFETY AND HANDLING INSTRUCTIONS.

Read all safety instructions before charging or using your batteries for the first time.

Lipo batteries require completely different charging and care than Nicd and NIMH batteries. Misuse can result in fire, personal injury and/or damage to property. The buyer assumes all Liability and risk associated with the use of Lithium-Polymer (Li-Po) batteries. Immediately return the battery, unused, if you do not agree with these terms.

General guidelines and warnings:

- 1.Use a Lithium Polymer specific chargers only!Do not use a NiCd or NiMH charger.
- 2.NEVER charge unattended.Always charge in safety sack or metal tin with lid and away from other flammable materials.
- 3.During the charge process watch for swollen or ballooning cells. If this happens immediately disconnect the charger and move the battery to a fire proof place for 15 minutes. Do not attempt to charge again.
- 4.A short circuit can cause a rapid discharge of high currents. Avoid short circuits, and be aware of short circuits on jewelery.
- 5.Any Lithium Polymer battery involved in a crash should be removed and observed in a fireproof space for 15 minutes before continuing to use or charge the battery.
- 6.If rewiring the battery pack, rewire the leads one at a time .Do not cut both leads.Do not short circuit on tools.
- 7.Do not expose battery packs to direct sunlight for extended periods.
- 8.Do not attempt to tamper with or open the LiPo Hardcase. The case is protection against possible battery swelling.

Before charging:

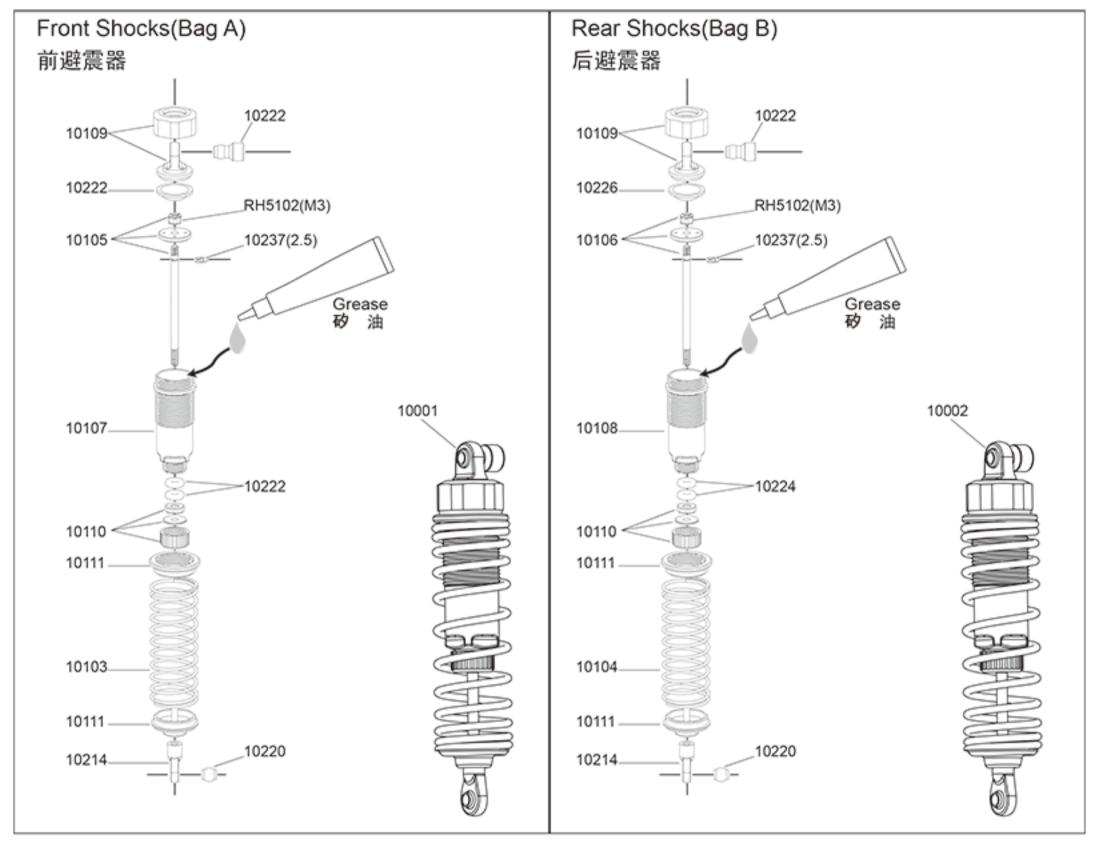
Visually inspect the pack checking for damaged leads, connectors, cracked heat shrink covering, swelling or other abnormalities. Do not charge if the pack is damaged.

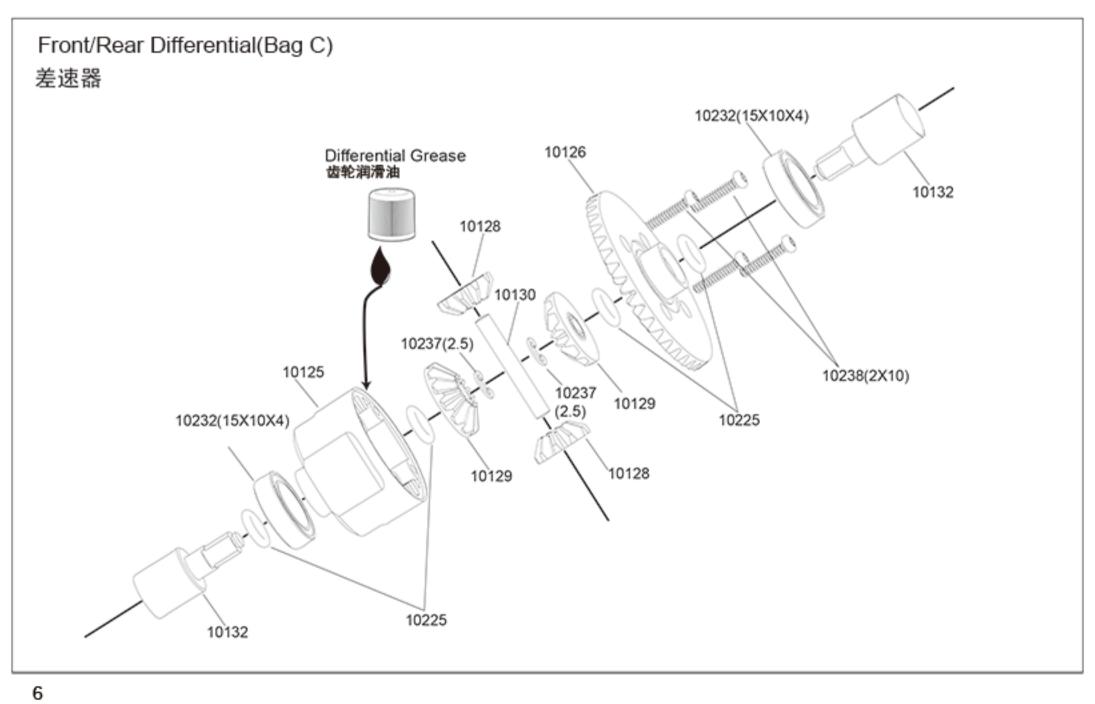
Charging process:

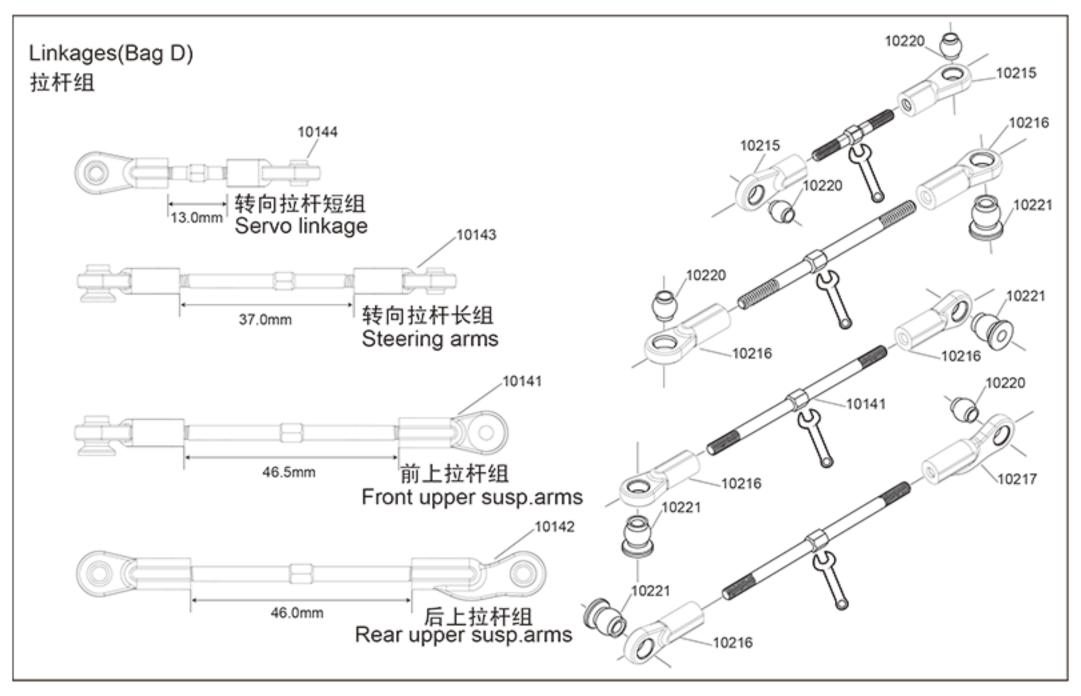
- NEVER charge unattended.
- Charge away from flammable materials and inside a Lipo safe sack or metal tin with lid.
- Allow battery to cool before charging.
- 4. Use the battery label for setting charger cell count and voltage.
- 5.Do not exceed 5C MAX charge rate. (Example, charge a 1000mAH pack at 5A MAX)

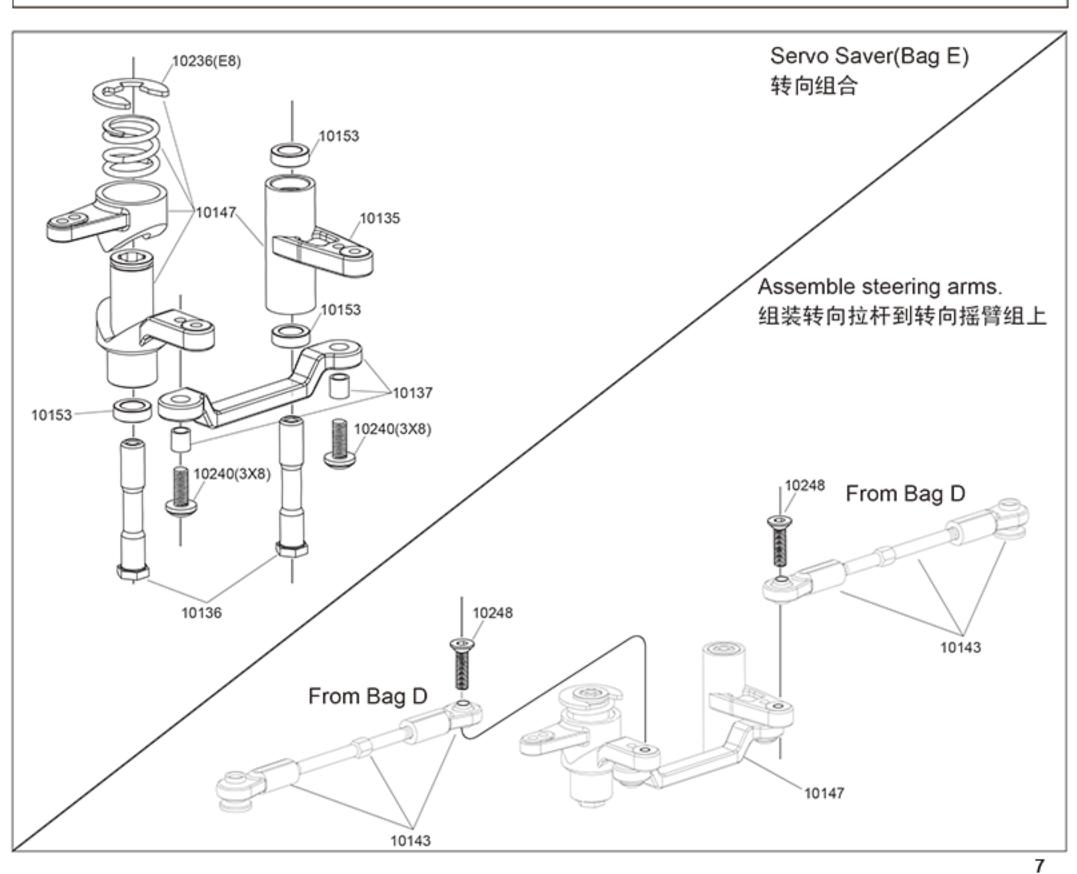
If disposing of a Lipo battery proceed as follows:

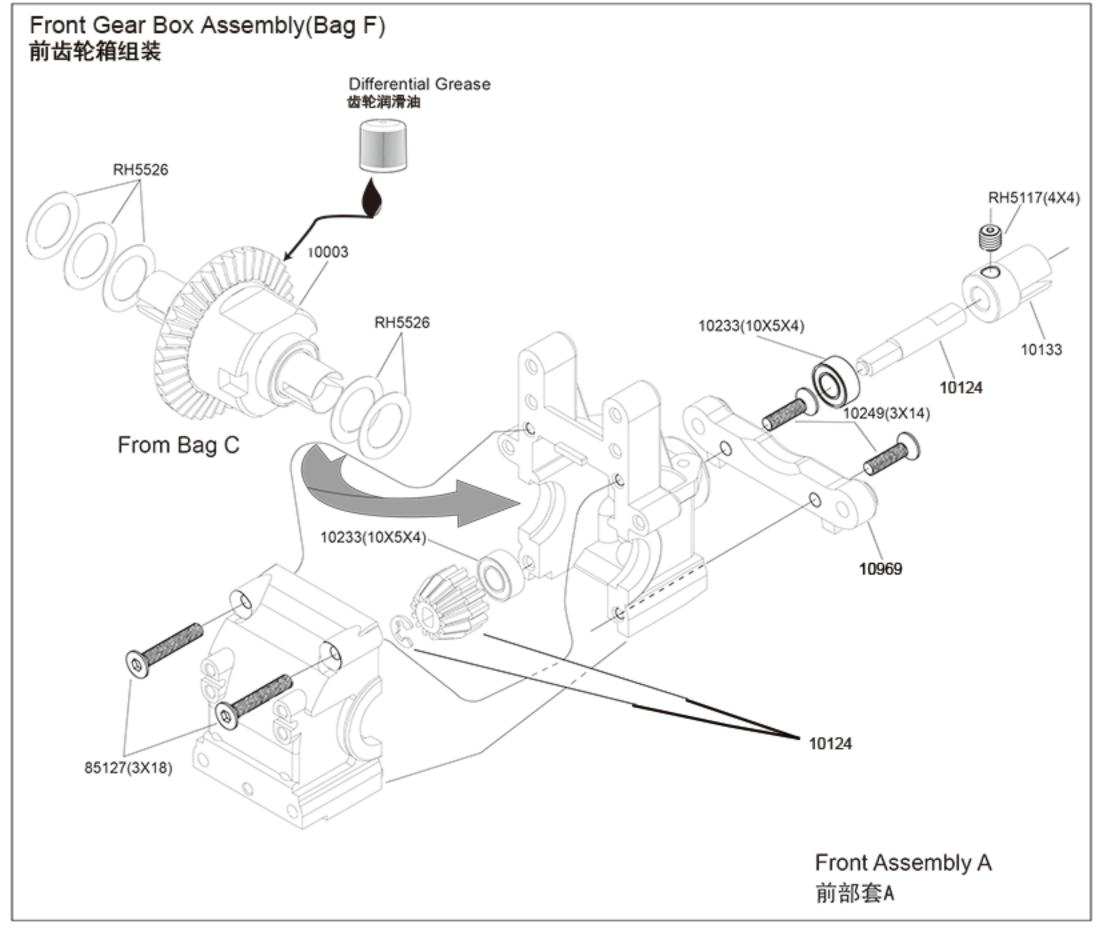
Submerse the battery into a container filled with about 10 litres of salt water(one cup of salt in 10L). Leave the battery submerged for 2 weeks, this will slowly and safely discharge the battery until the voltage has dropped to zero volts which eliminates the risk of any chemical reaction. It can then be disposed off in the general waste collection.

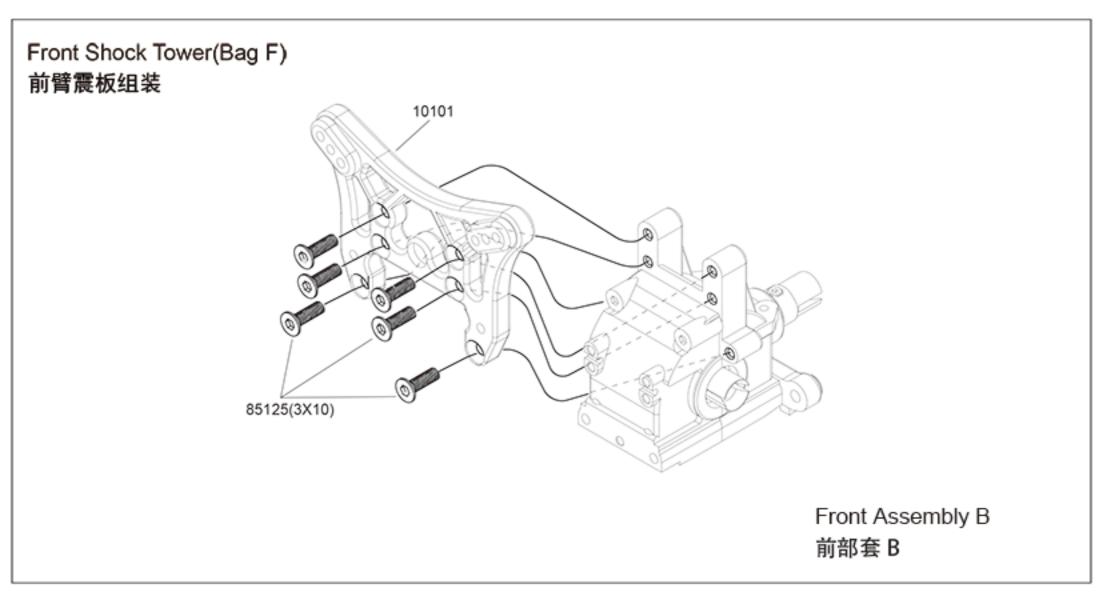


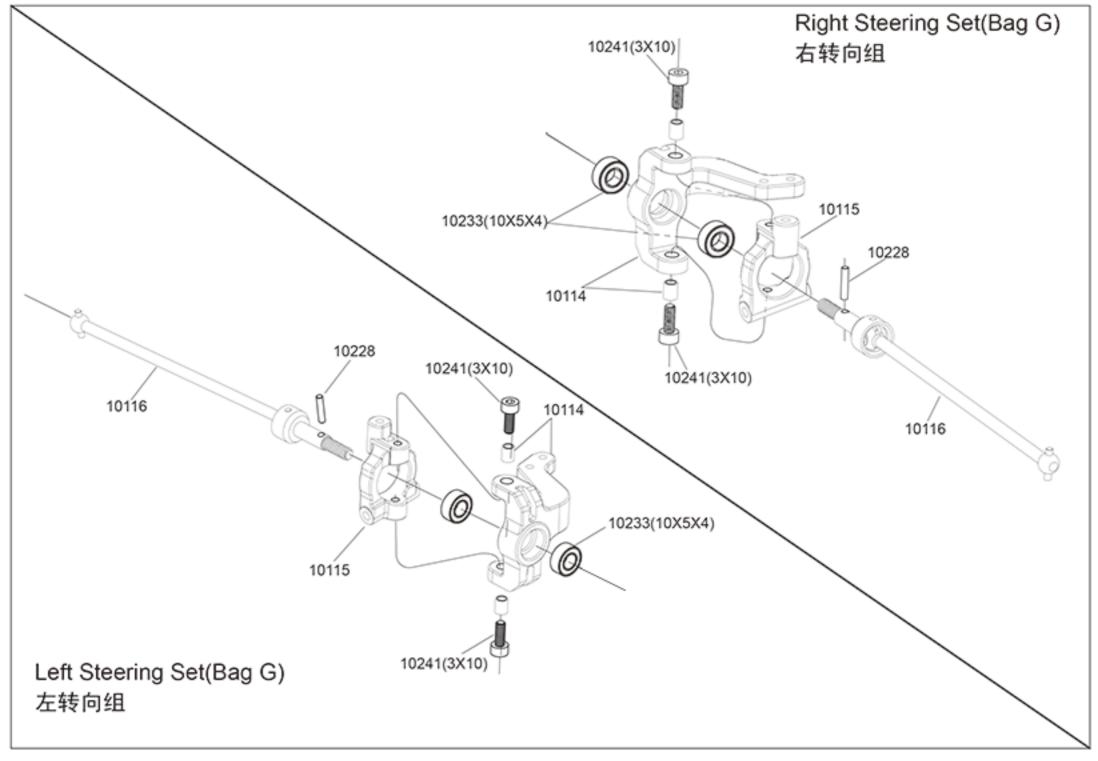


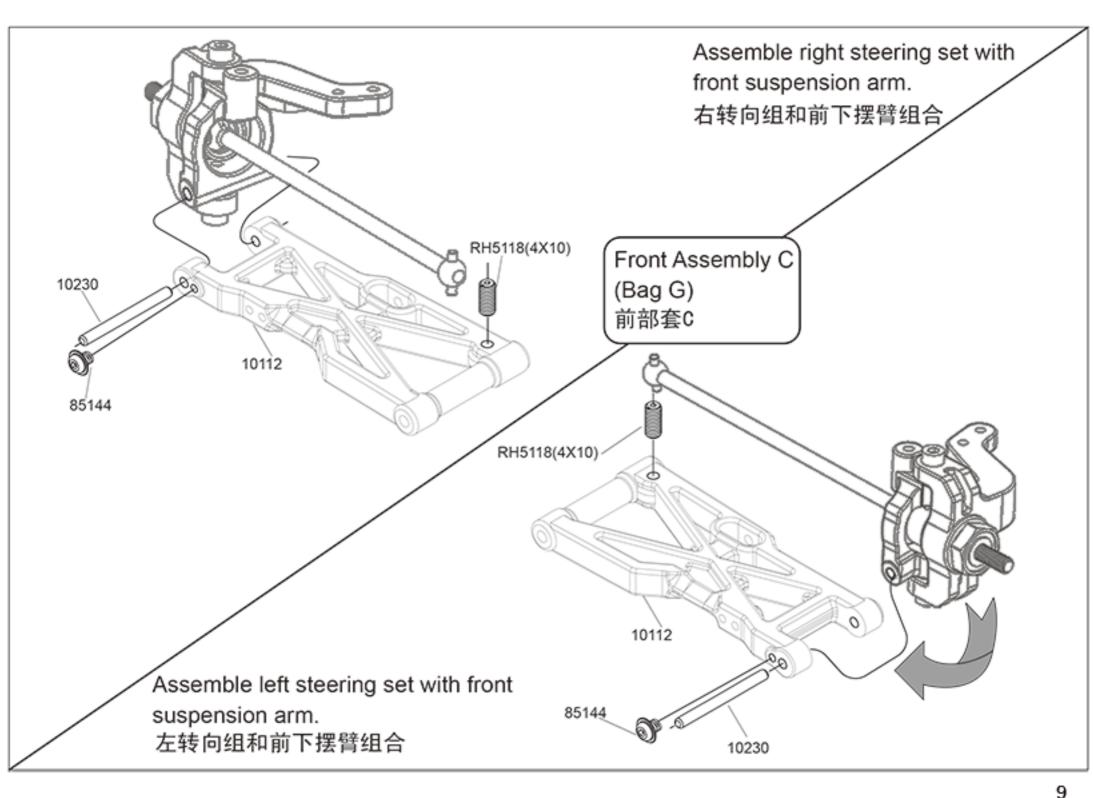


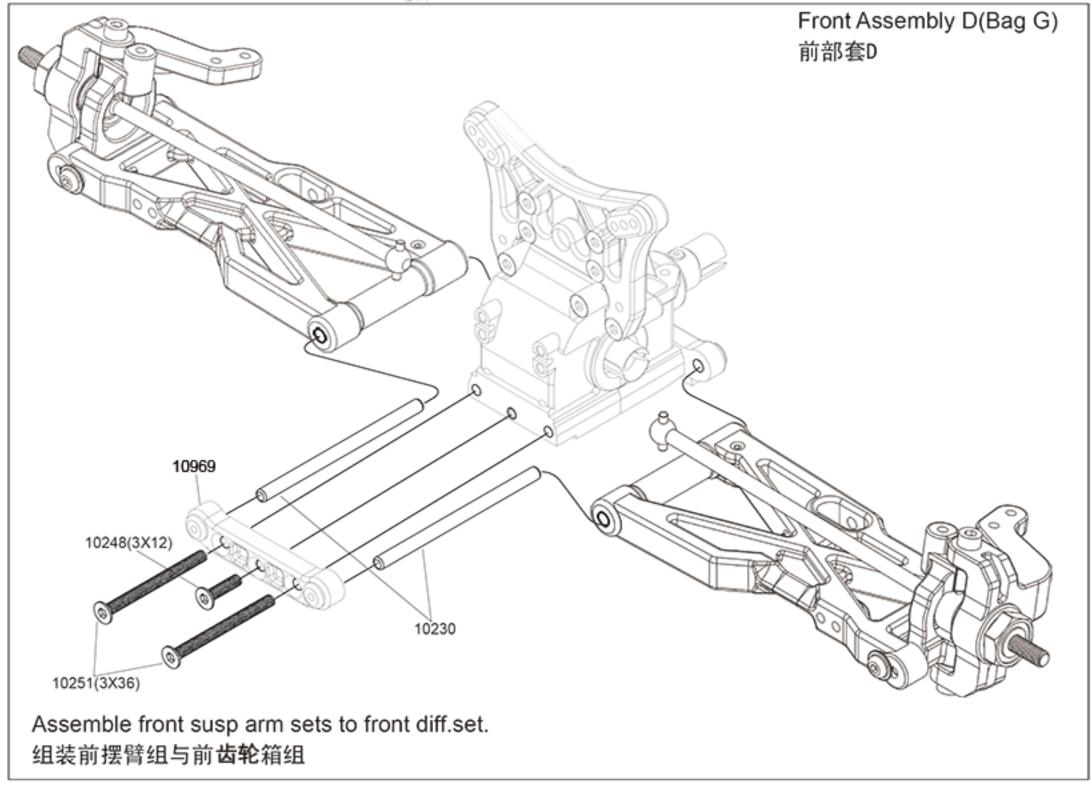


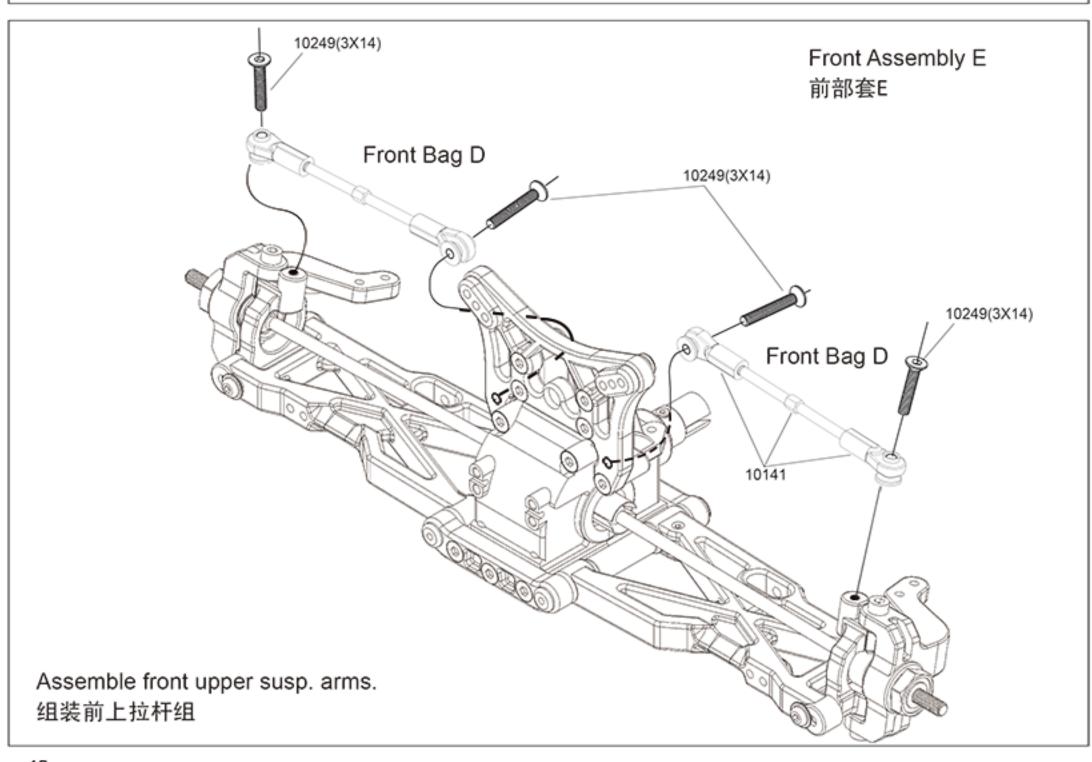


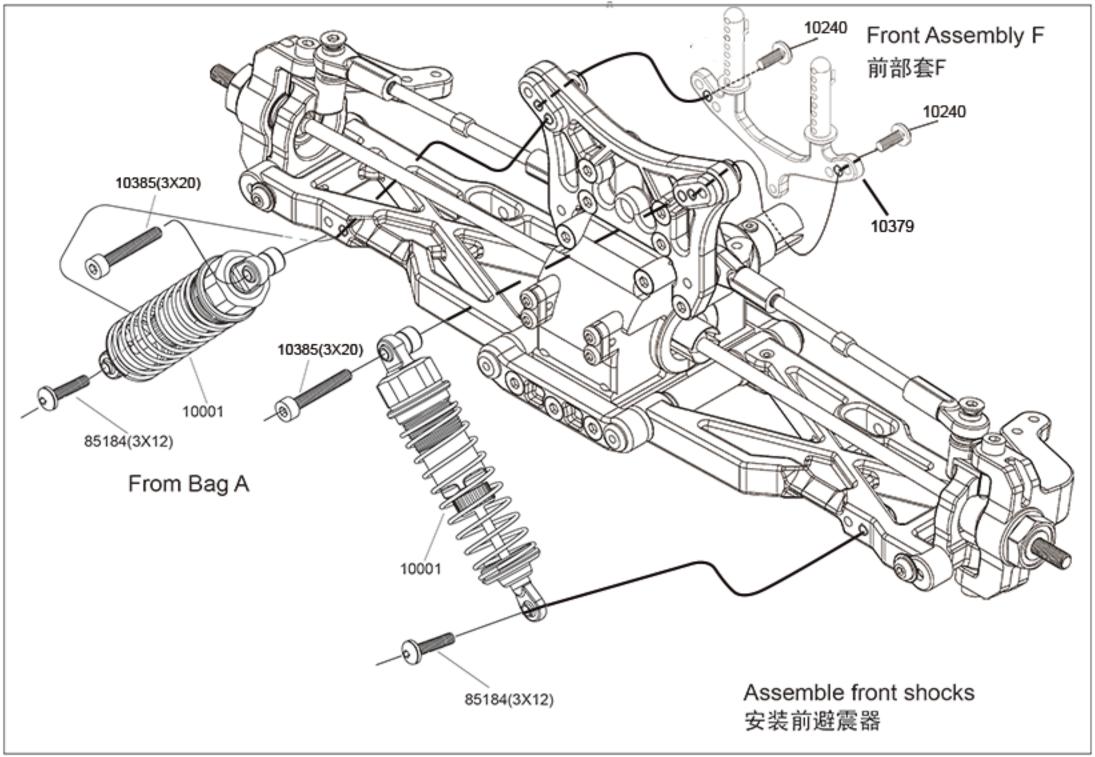


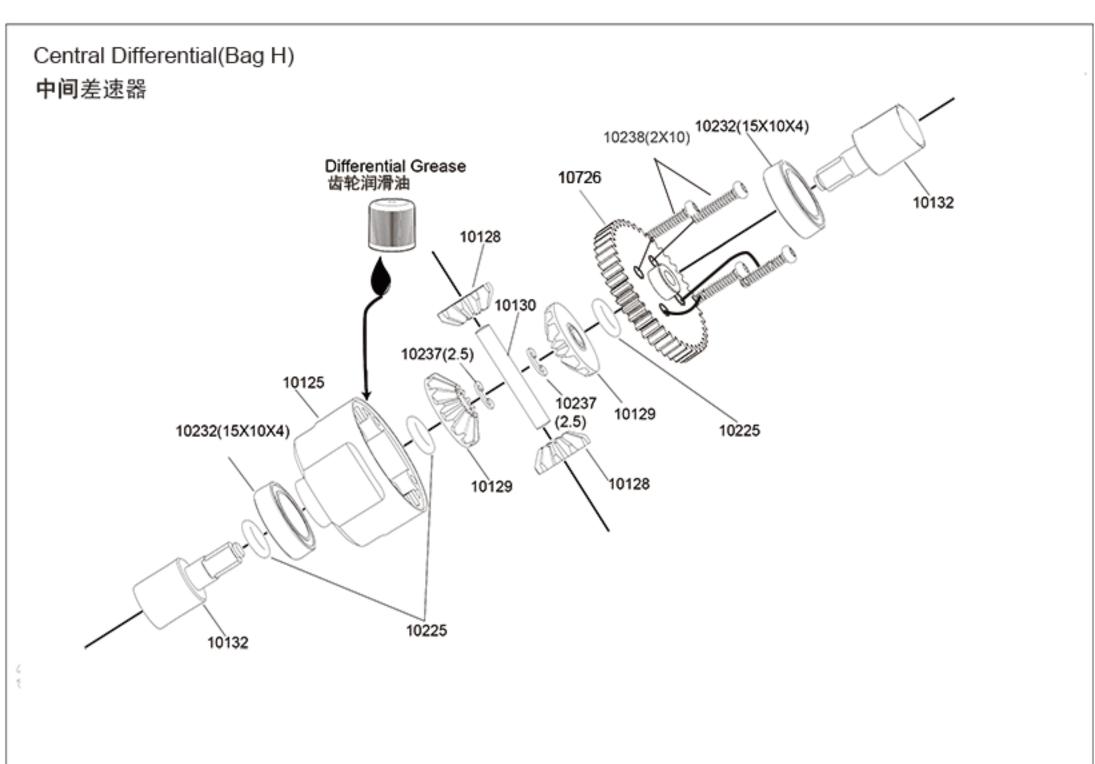


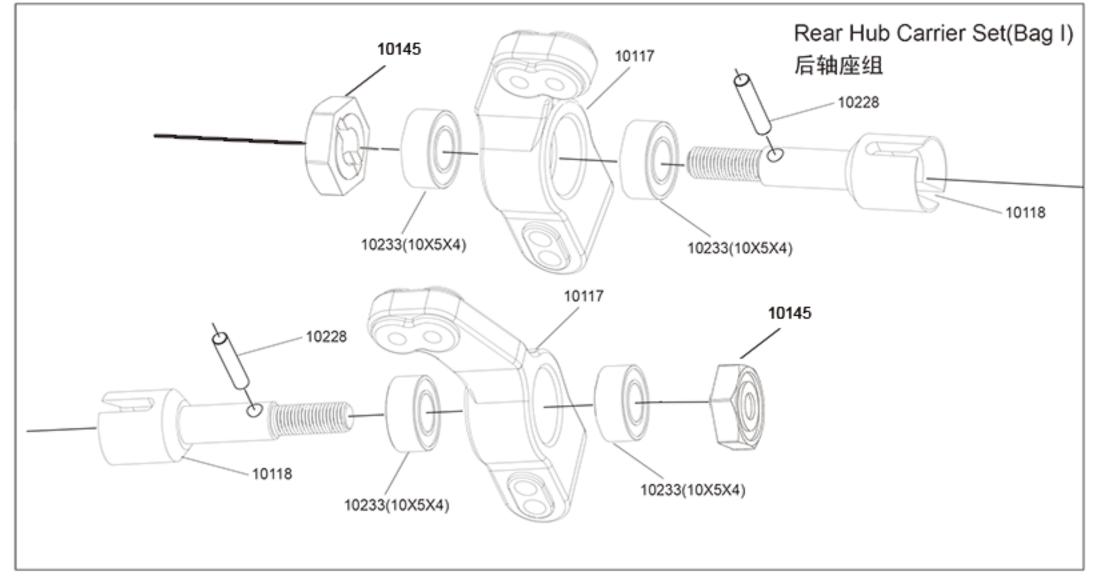


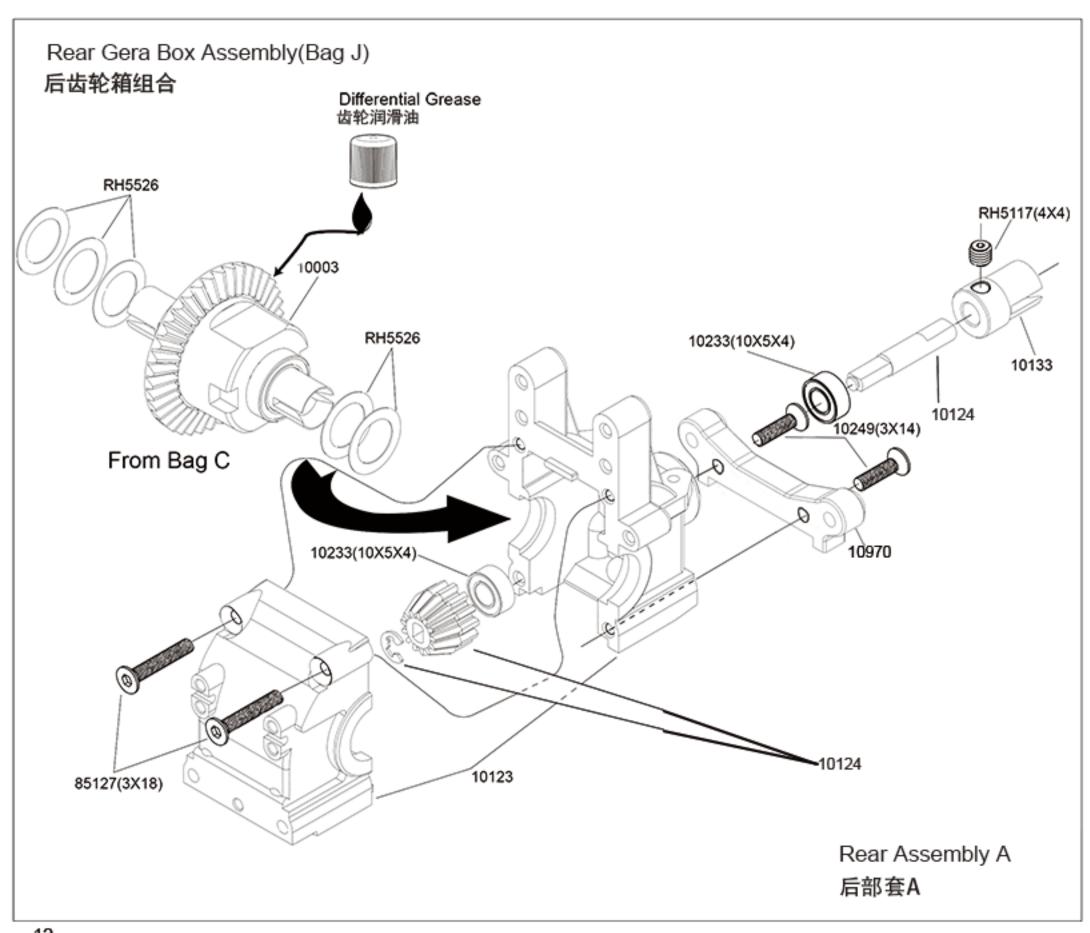


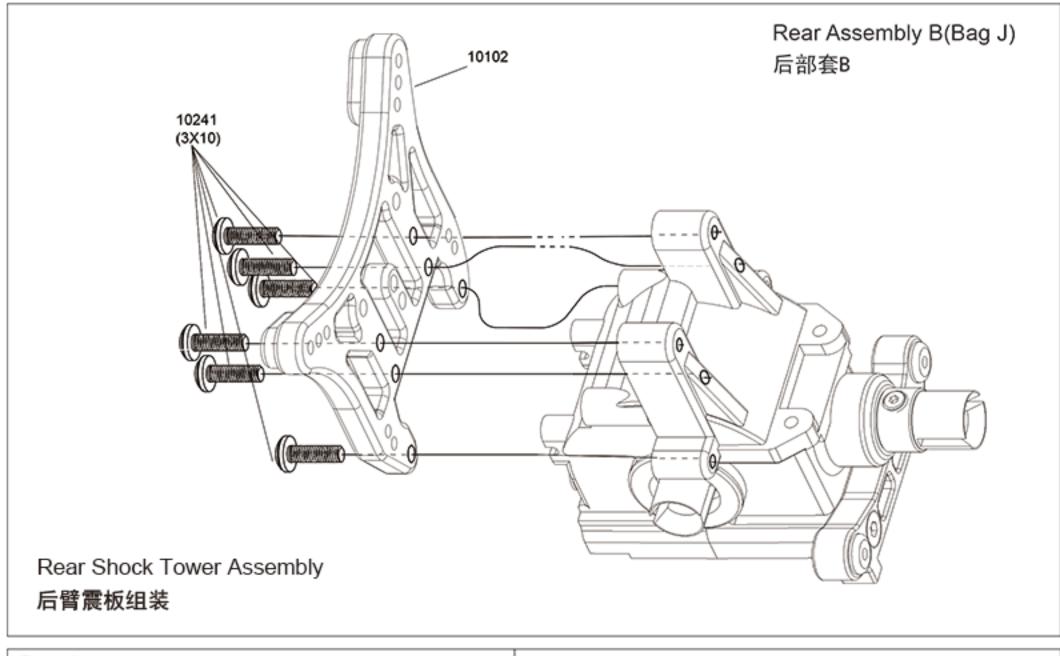


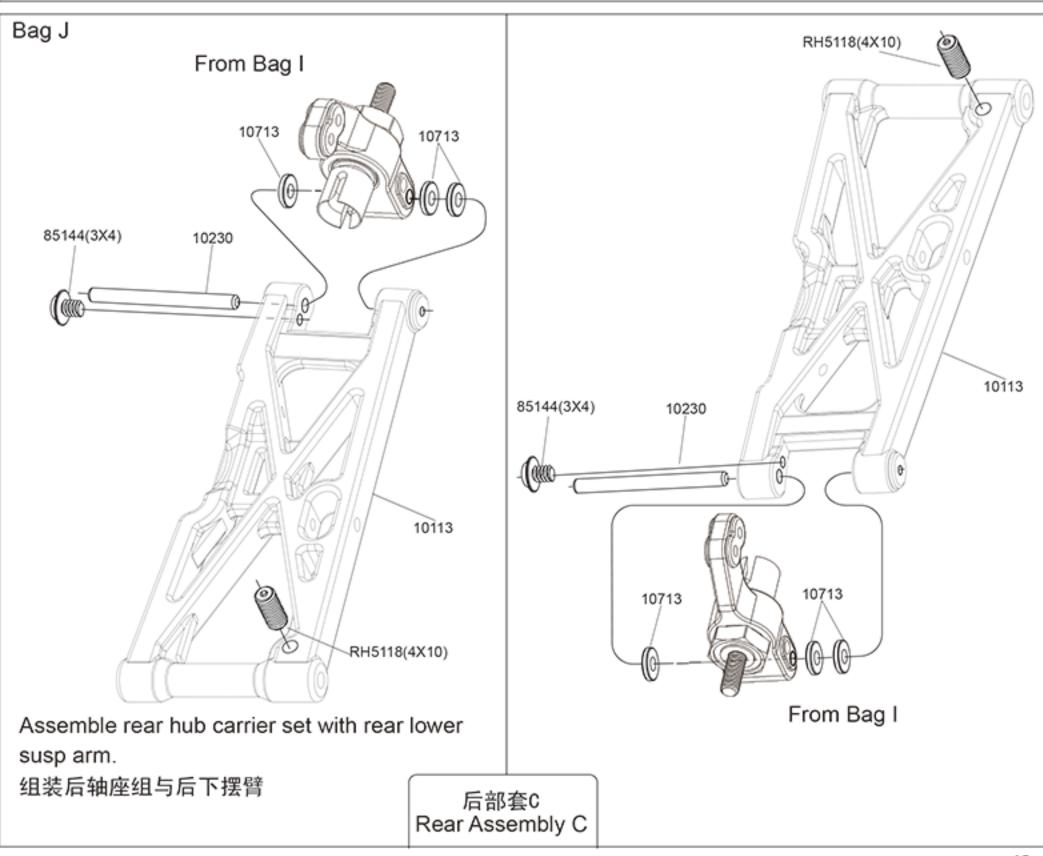


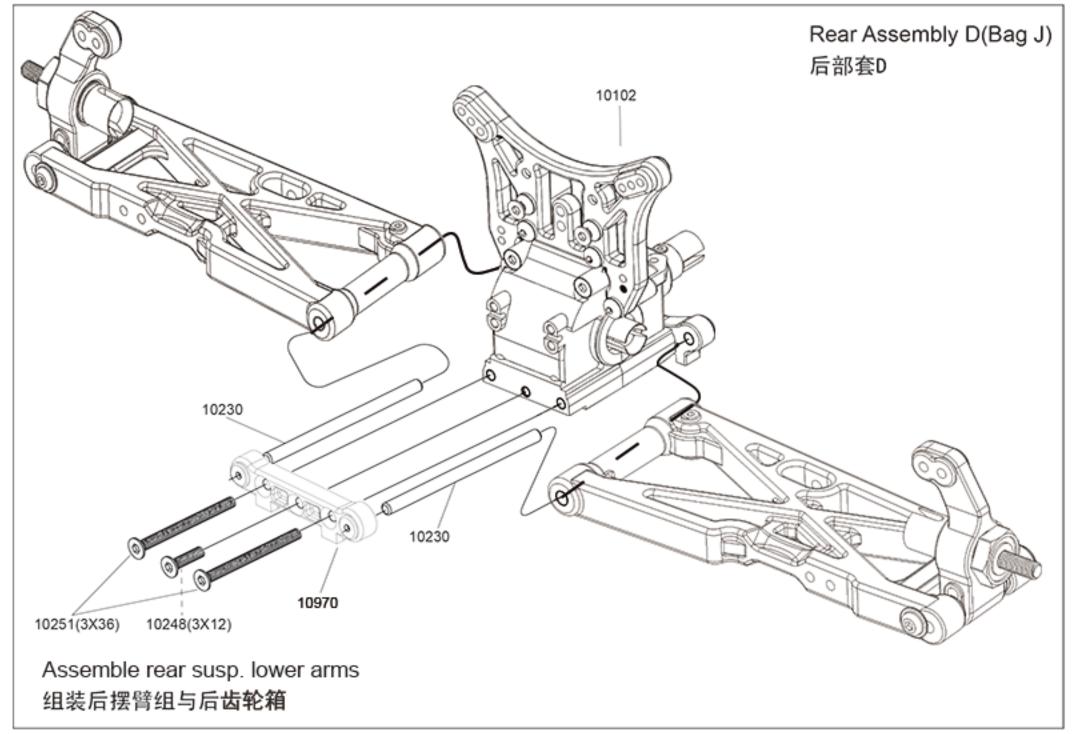


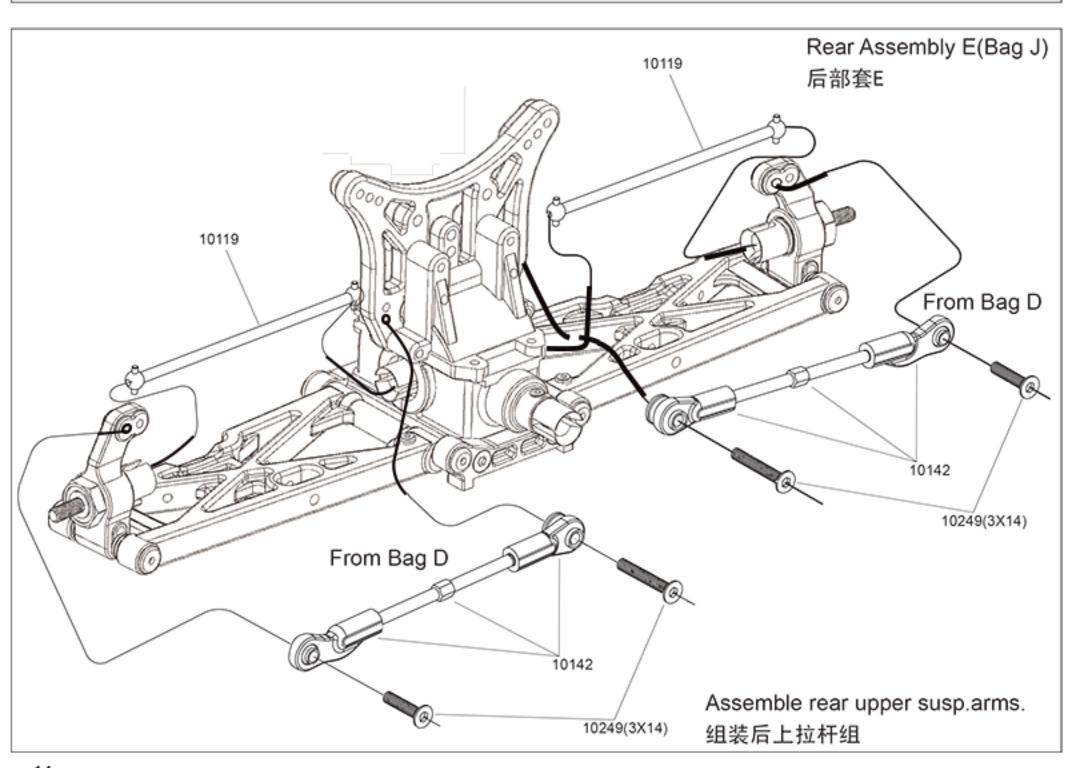


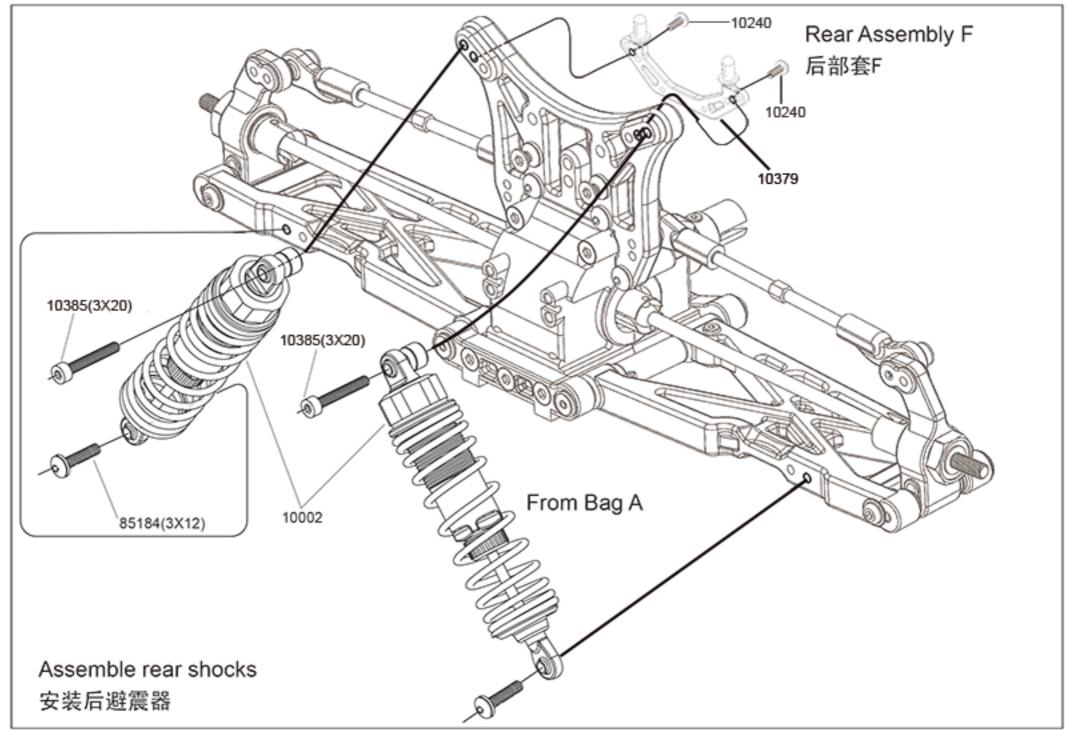


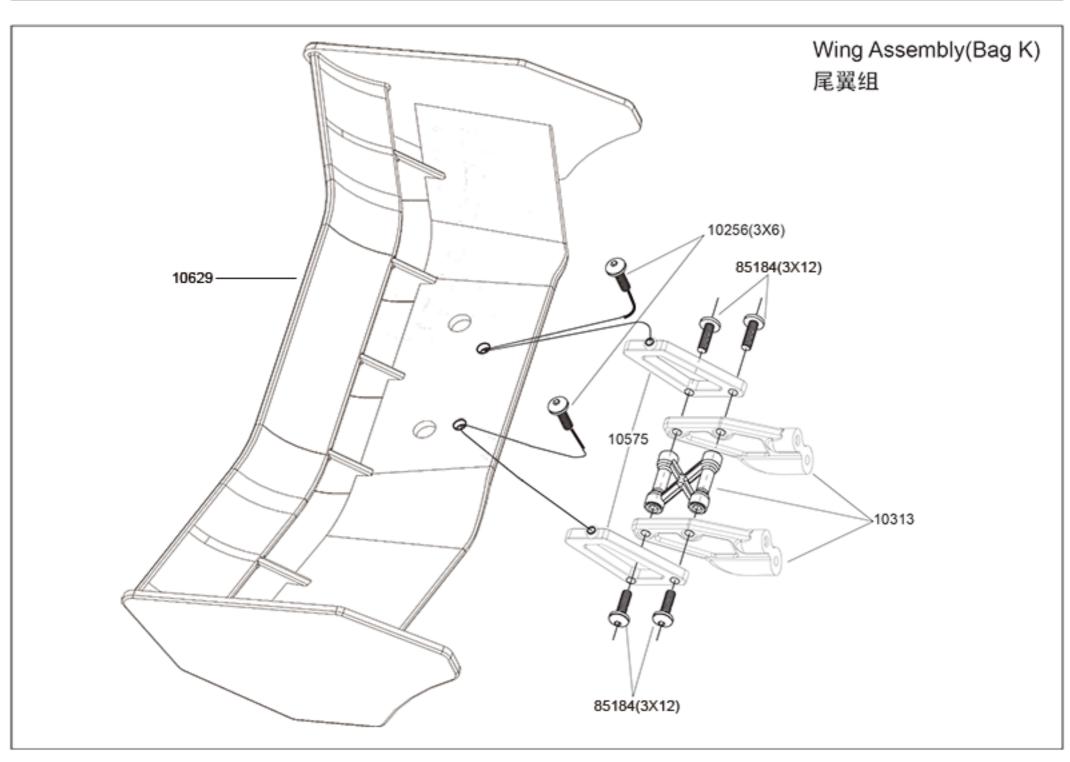


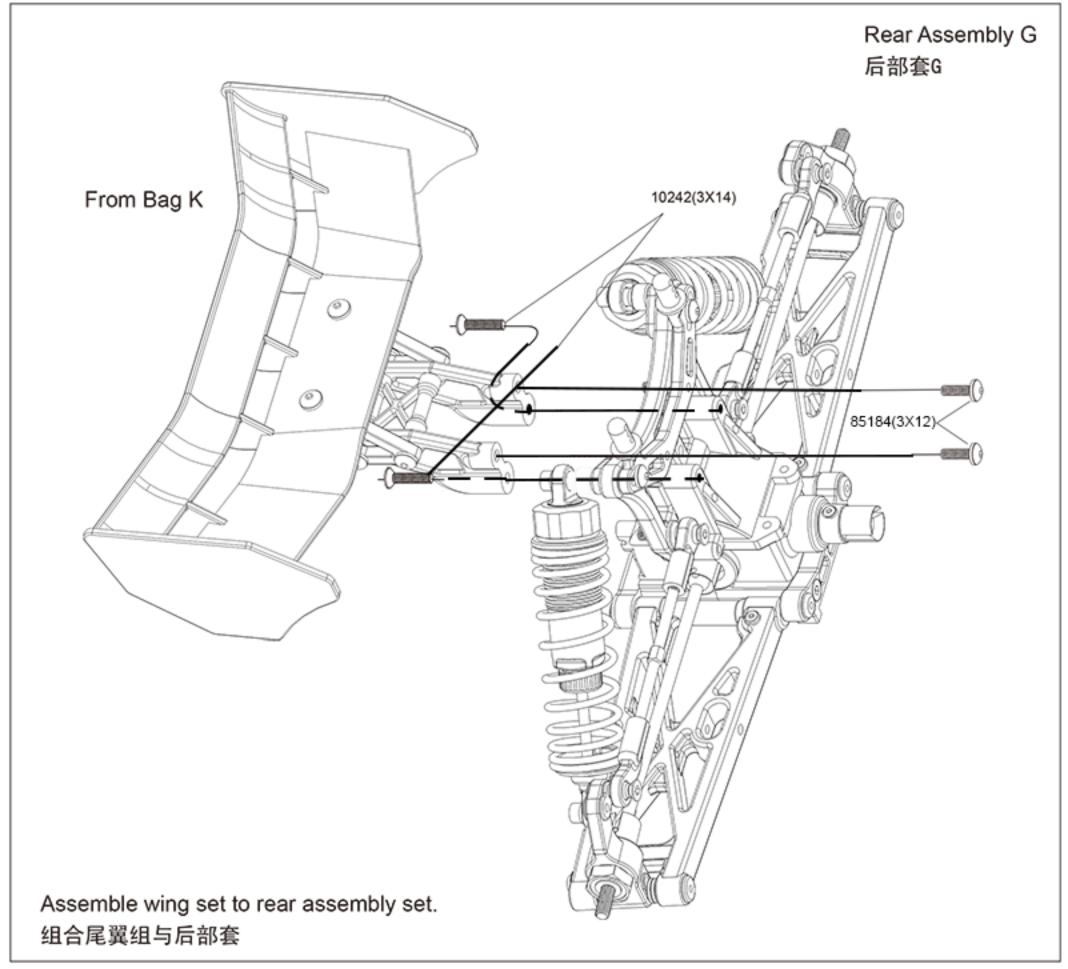


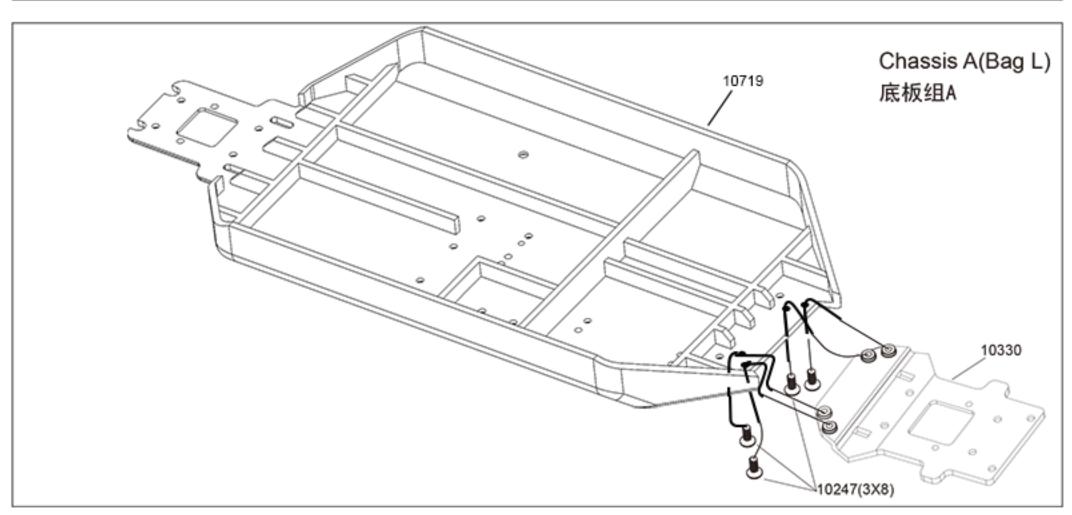


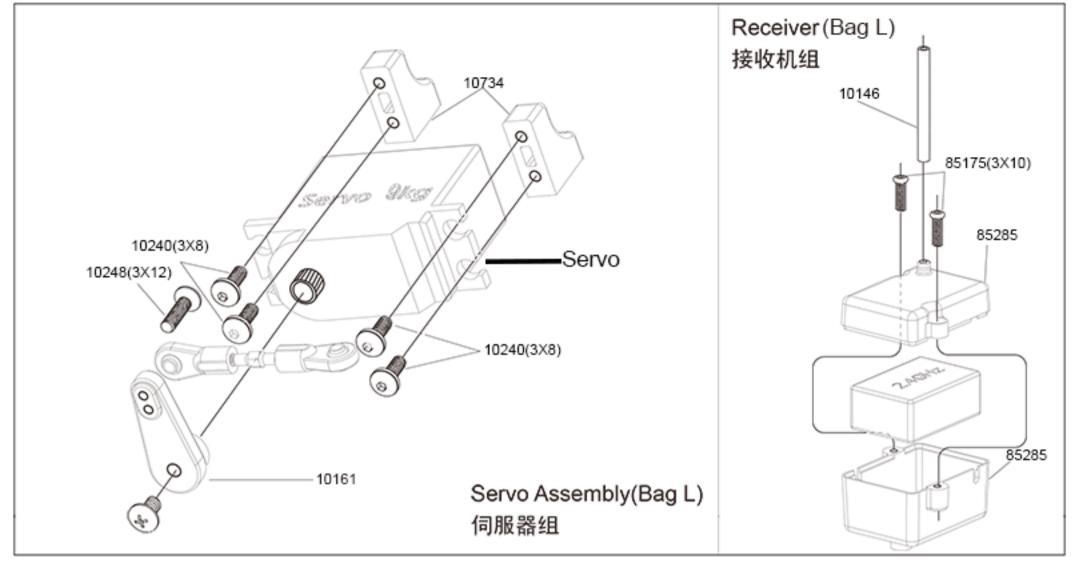


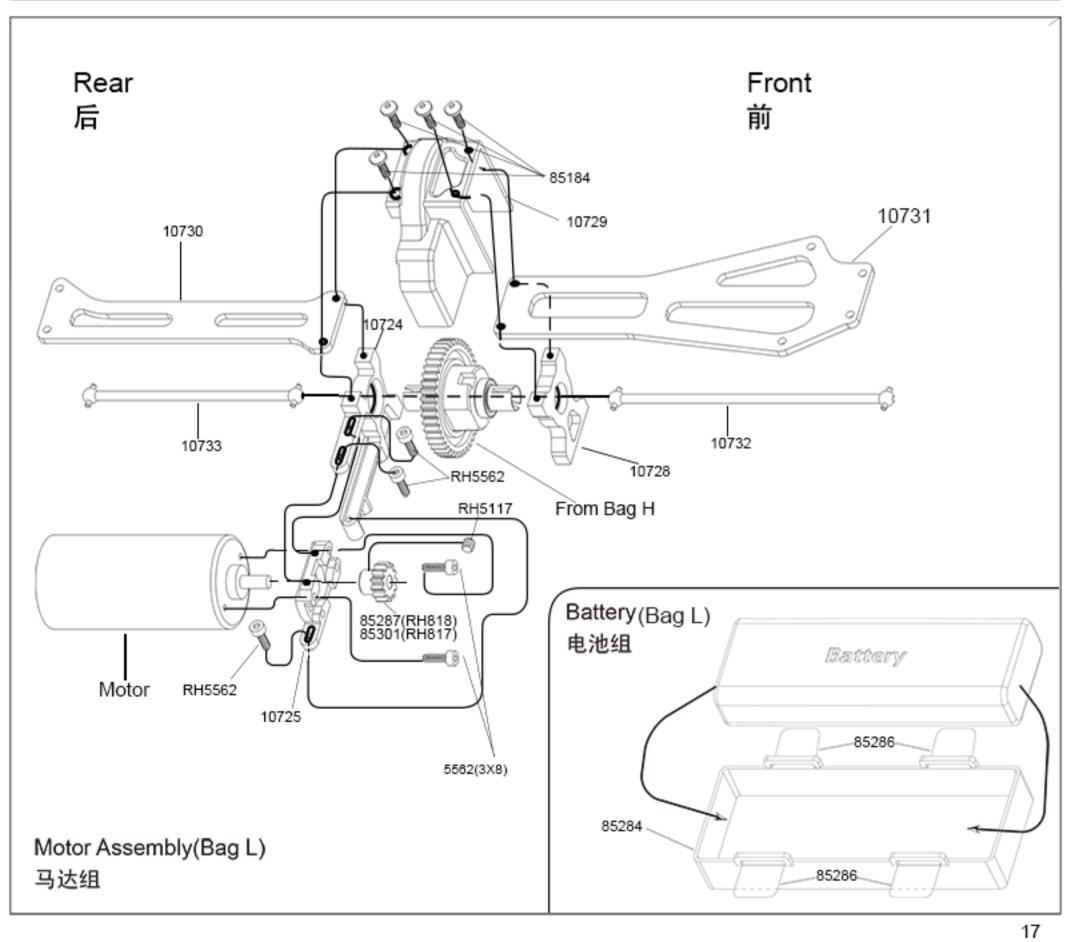


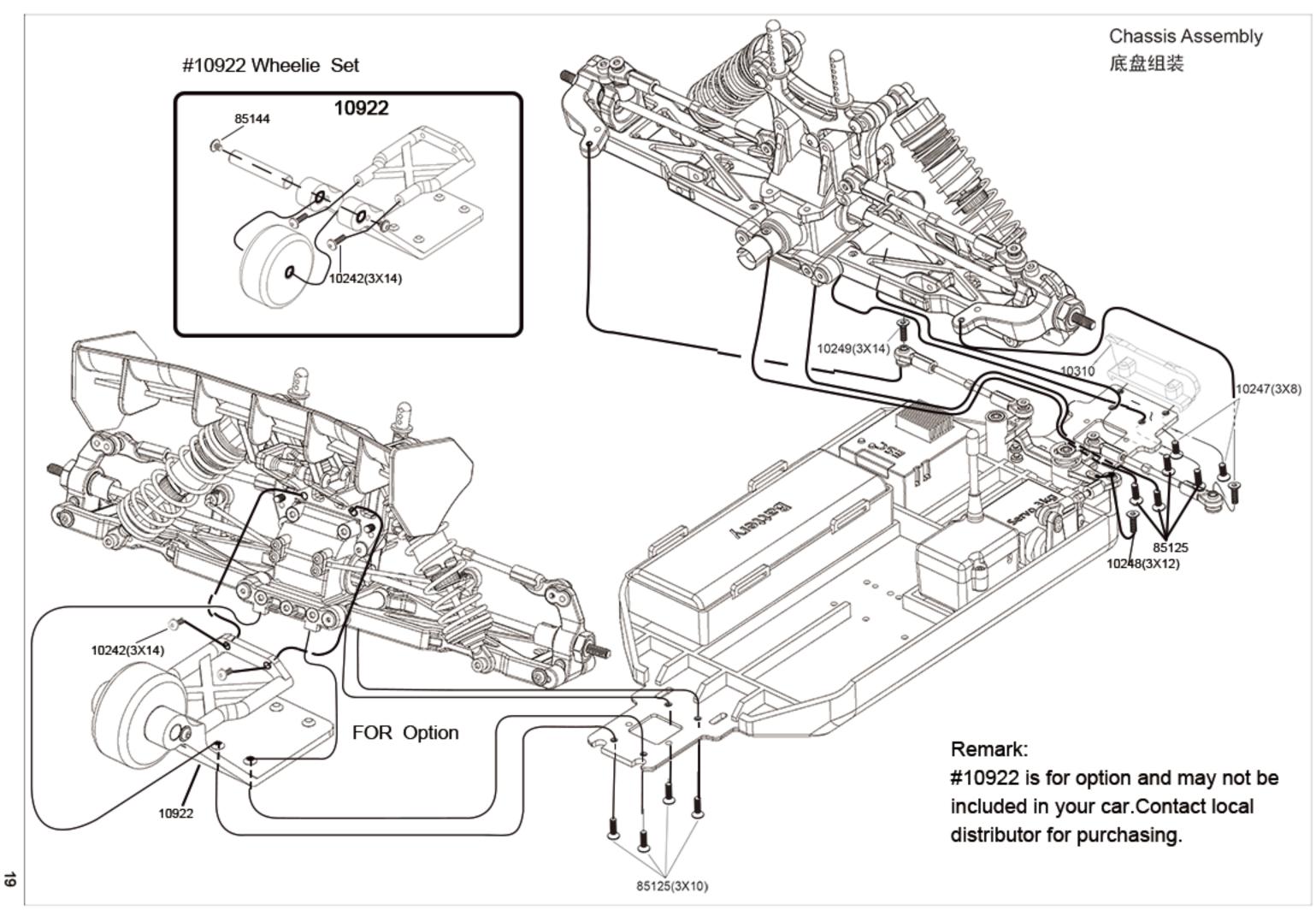


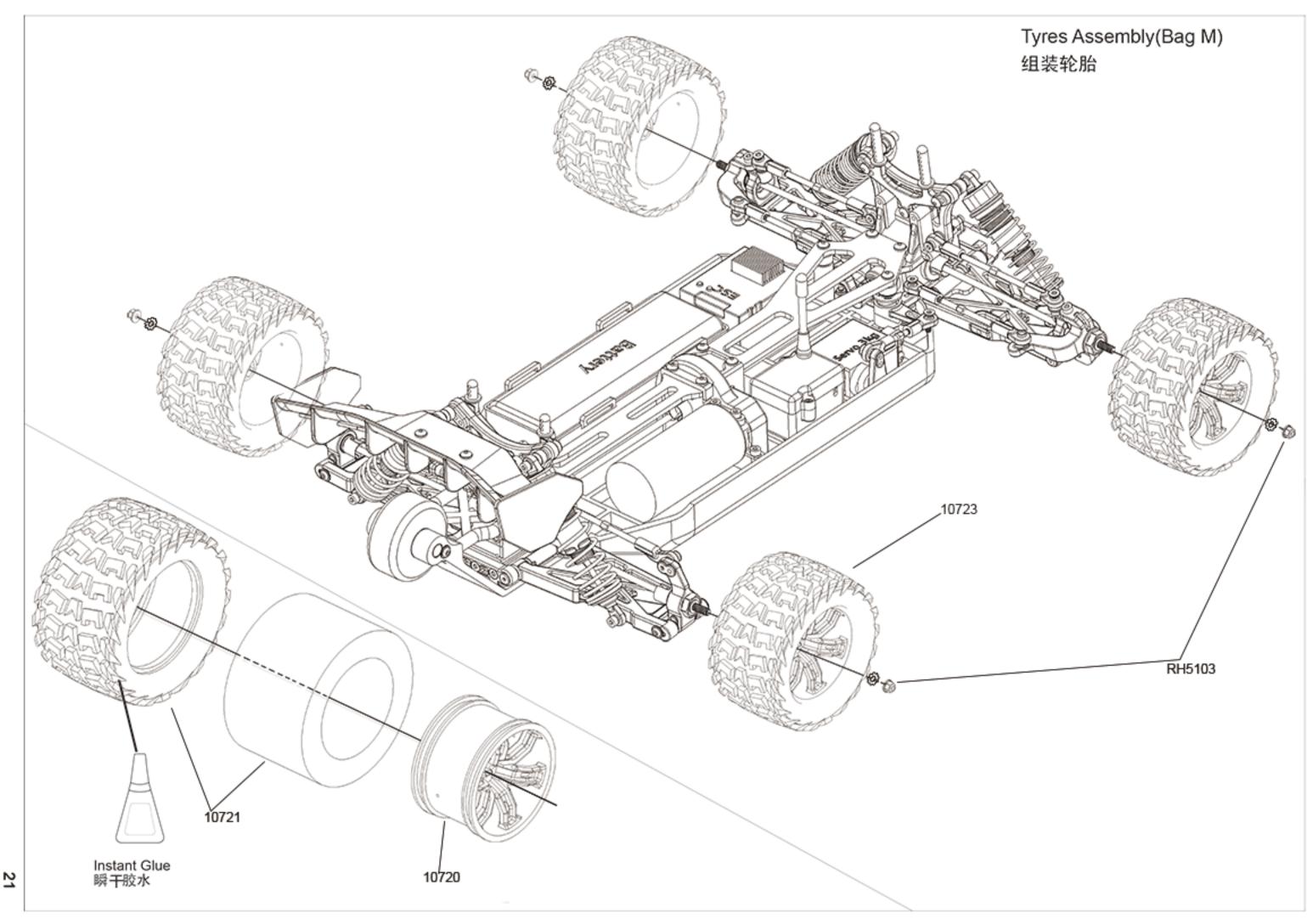








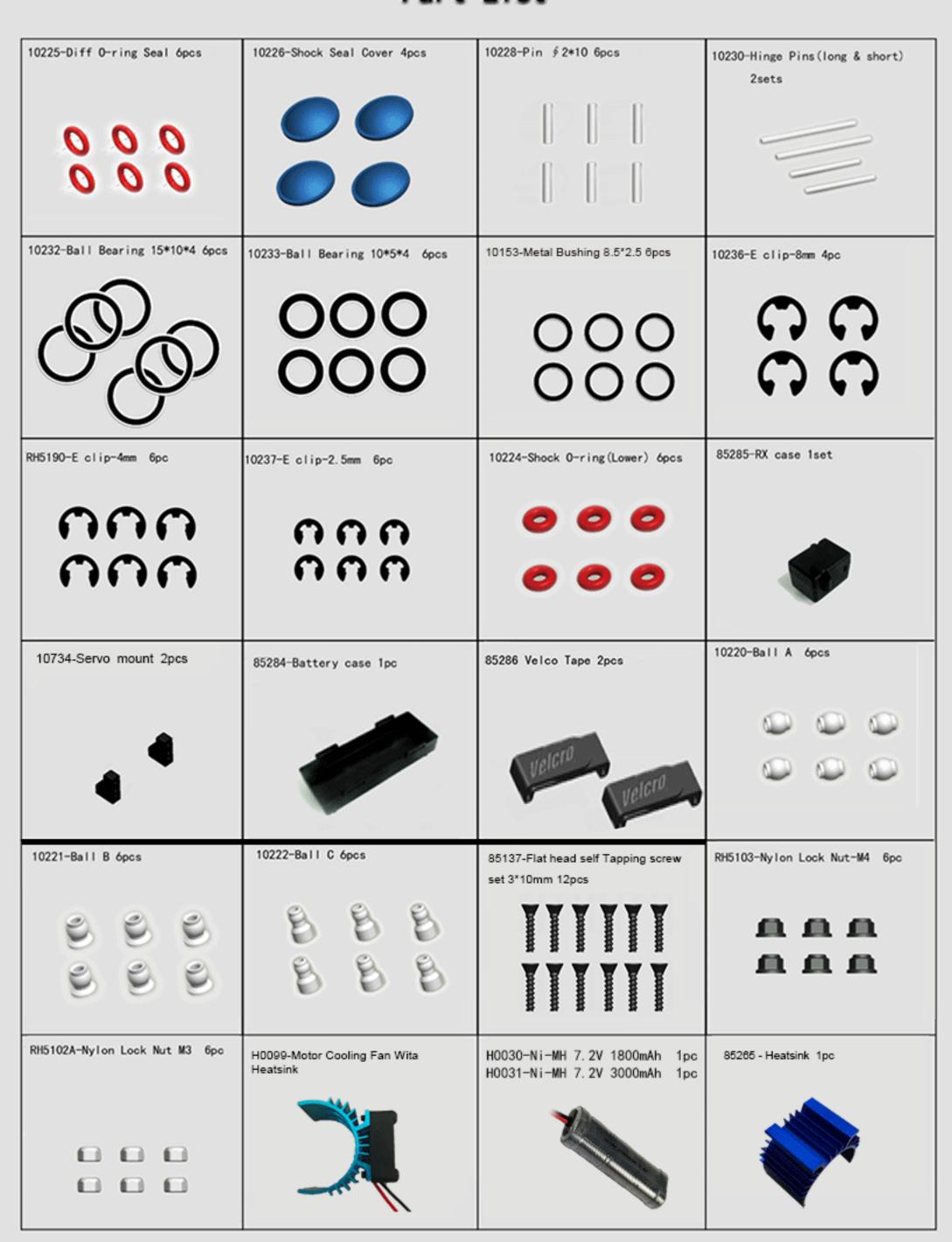




10719-Chassis Plate 1pc	10720-Rims 2pcs	10721-Tyre/foam insert 2pcs	10723-Wheel 2pcs
10724-Motor mount B 1pc	10725-Motor mount S 1pc	10726-Main gear 43T 1pc	85287-Pinion gear 1pc
10727-Central transmission complete set 1set	10728-Central transmission mount 1pc	10729-Cover for Central transmission 1pc	10730-Upper plate R. 1pc
10731-Upper plate F. 1pc	10732-Central drive shaft F. 1pc	10733-Central drive shaft R. 1pc	10629-Rear wing 1pc
10735-Upper plate hightened pad 2pcs	10736-Upper plate spacer 2pcs	10575-Wing bracket 2pcs	10145-Wheel Hub 4pcs
10969 - Frant Susp. Holders (Alloy) 1Set	10970 - Rear Susp. Holders (Alloy) 1Set	10210-Sway Bar 2Sets	10379-Body Post 2pcs

10101 - Front Shock Tower 1pc	10102 -Rear Shock Tower 1pc	10001-Front Shocks 2pc	10002 - Rear Shock Tower 2pc
10103-Front Shock Spring 2pc	10104-Rear Shock Spring 2pc	10105-Front Shock Shaft & Piston Set 2sets	10106-Rear Shock Shaft & Piston Set 2sets
			200
10107-Front Shock Body 2pc	10108-Rear Shock body 2pc	10109-Shock Upper Cap 2sets	10110-Shock Lower Caps 2sets
			0 0 0
10111-Shock Lower holder & Adjust	10112-Front Lower Susp. Arm 2pc	10113-Rear Lower Susp. Arm 2pc	10114-Steering Knuckle Arm 1set
Ring 2sets			
10115-Uprights 2pc	10116-Front CVD 2pc	10117-Rear Hub Carrier 2pc	10118-Rear Drive Shaft 2pc
32			
10119-Rear Dogbones 2pc	10123-Gearbox Housing Set 2pcs	RH5526-Diff 16T Gear Washer 6pcs	10124-Diff.Drive Gear w/pin 2sets
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10125-Diff Case 2pcs	10126-Diff Drive Spur Gear 2pcs	10127-Diff Drive Gear 2pcs	10128-Diff Bevel Gear S. 4pcs
			3 8
10129-Diff Bevel Gear B. 4pcs	10130-Diff Pin 2pcs	10132-Diff Drive Cup 4pcs	10133-Center Coupler 3pcs
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10136-Servo Saver Post 2pcs	10137-Steering Ackerman	10141-Front Upper Susp. Arm 2sets	10142-Rear Upper Susp. Arm 2sets
	<u></u>	₩ =	
10143-Steering Arm 2sets	10144-Servo Linkage 1pc	10146-Antenna Pipe Set 2sets	10147-Servo Saver (EP) 1set
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10310-Front bumper 1pc	10313-Wing bracket 1set	10330-Chassis Front Part 1pc	10003-Diff Gearbox Set 1set
	M		
85034-Body Clip (Medium Size) 6pcs	10214-Shock Ball End 6pcs	10215-Servo Link Ball end 6pcs	10216-Steering Linkage Ball End 6pcs
	4 4 4	10 10 10 10 10 10	



10238-Round Head Self Tapping Hex Screw 2*10 6pc	10240-Button Head Hex Screw M3*8 6pc	10241-Button Head Hex Screw M3*10 6pc	10242-Button Head Hex Screw M3*14 6pc
	TTTTT	TTTTT	
10247-Flat Head Hex M3*8 6pc	10248-Flat Head Hex Screw M3*12 6p	10249-Flat Head Hex Screw M3*14 6p	10251-Flat Head Hex Screw M3*36 6p
TTTTT	TTTTT		
10256-Ring Self Tapping Screw 3*6 6pc	10385-Cap Head Hex Screw M3*20 6pce	RH5117-Set Screw M4*4 6pc	RH5118-Button Head Hex Screw M4*10 6pc
TTTT	IIIIII		
85125-Flat Head Hex Screw M3*10 8p	85127-Flat Head Hex Screw M3*18 3p	85144-Ring Self Tapping Screw 3*4 4pc	85173-Flat Head Hex Screw M4*10 6p
		TTTT	
85175-Button Head Hex Tapping Screws.3*10 8P	85182-Cap Head Hex Screw M3*10 6pc	85184-Button Head Hex Screw M3*12 6pc	RH5562-Cap Head Hex Screw M3*8 6pc
	TTTTTT	TTTTTT	TTTTTT
10254 - 1/v10 Charger CE 1pcs 10255 - 1/10 Charger CE 1pcs 10253 - 1/10 Charger CE 1pcs	H0050-400A ESC 1pc	10713-Washer 6.9*3.5*1.1 6pcs	H0101 - 590 Motor 1pc
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H0072 - 45A KS Brushless ESC H0082 - 60A KS Brushless ESC	85262-3660 3000KV Motor 1pc	85260-11.1V 3250mAH	H0067-6kg/cm Servo 1pc
H0079-V3 Lipo Charger	H0068 - 2.4GHz Transmitter 1pc	H0089 - 8.4v1800mAh N1-MH battery 1pc	R0249 - Printed bpdy 1pc
R0250 - Clear bady 1pc			

Upgrade Parts List

10902 - Front Shock Plate (Carbon) 1Set	10903 - Rear Shock Plate (Carbon) 1Set	10907-Front Shocks (AL) 2pc	10908-Rear Shocks (AL) 2pc
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10911 - Steering Ackerman (AL) 1pc	10918 - Wheel Hub (AL) 4pc	10924 - Alum Knuckle Arm 2pc	10922 - Wheelie Set 1set
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10909 - Front Lower Susp. Arm (AL) 2pc	10910 -Rear Lower Susp. Arm (AL) 2pc	10914 - Rear Susp. Holders (AL) 1Set	10915 - Rear Hub Carrier(AL) 2pc
10912 - Front Susp. Holders (AL) 1Set	10917 - Steering Knuckle Arm (AL) 2Set	10932 - Alum Chassis Front Part 1pc	10923 - Alum Steering Arm 2pc
10999-Steel 43T gear 1pc	11020-Alum Central transmission mount 1pc	11021-Alum Upper Plate hightened pad 2pc	11022-Alum Upper Plate spacer 2pc
11023-Carbon Chassis Plate 1pc	11024-Alum Chassis Plate		