INSTRUCTION MANUAL

1/10 Scale Electric Crawler



BF-4J

- NO.RH1047 BF-43(Brushed)
- O NO.RH1048 BF-43 (Brushless)

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VRX Racing RTR Brushed 2.4GHz Truck/Buggy

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

This 1/10th 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

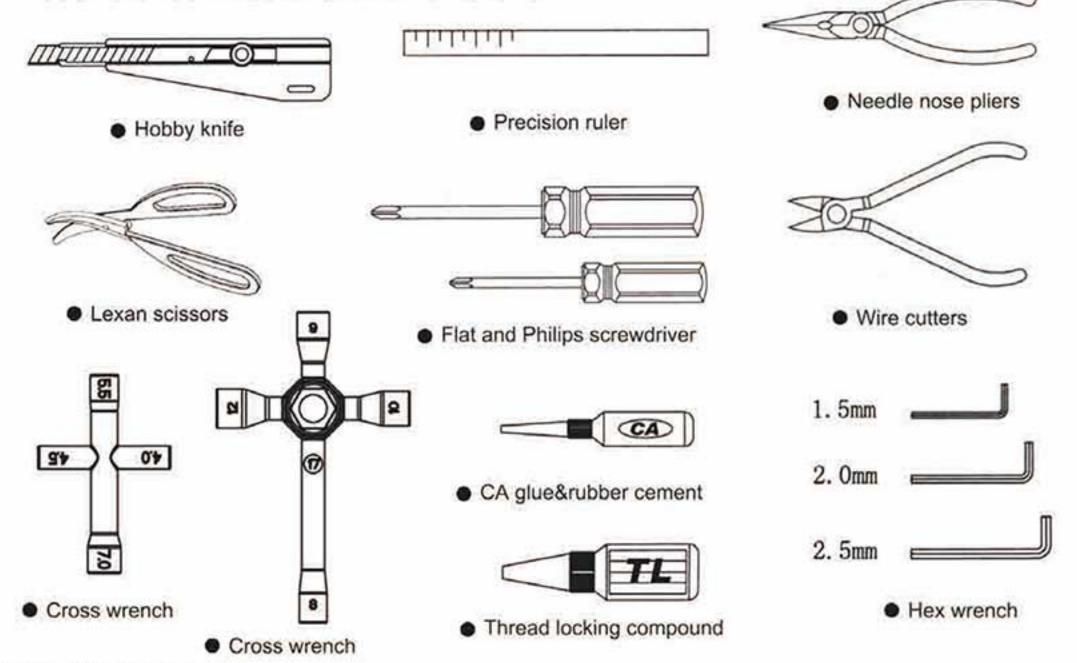
You are responsible for operating this model such that it does not endanger yourself and others, or result in damage to the product or the property of others. This model is controlled by a radio which is possibly subject to interference which can cause momentary loss of control so it is advisable to always keep a safe distance to avoid collisions and injury. Age Recommendation: 14years 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 receiver 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

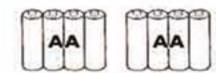
1. Tools required for building and maintenance:



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!

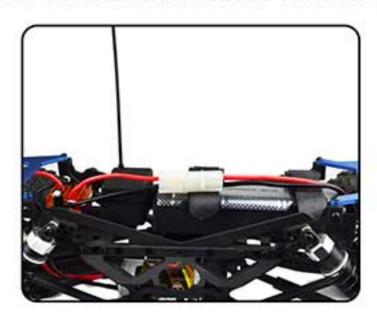
Check that all screws and nuts are tight before each use.

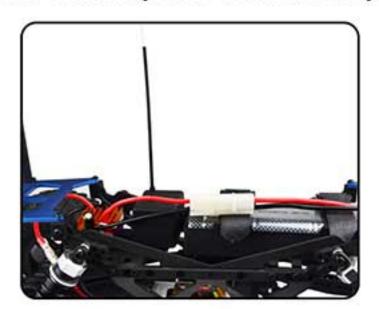
What's Included in the Box + + + +

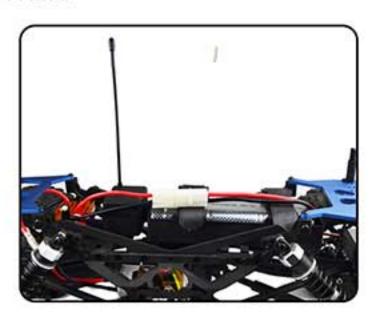
Aerial Assembly

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 aerial wire 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

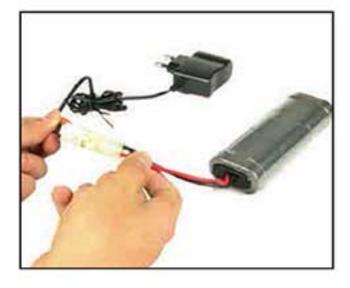


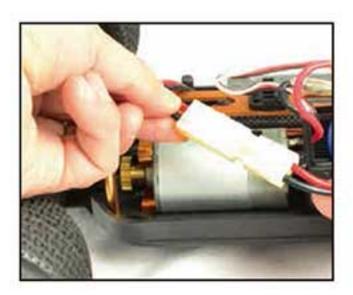




Charging/Installing the Battery.

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 charge battery, firstly remove the body shell and insert the battery into the 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 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.

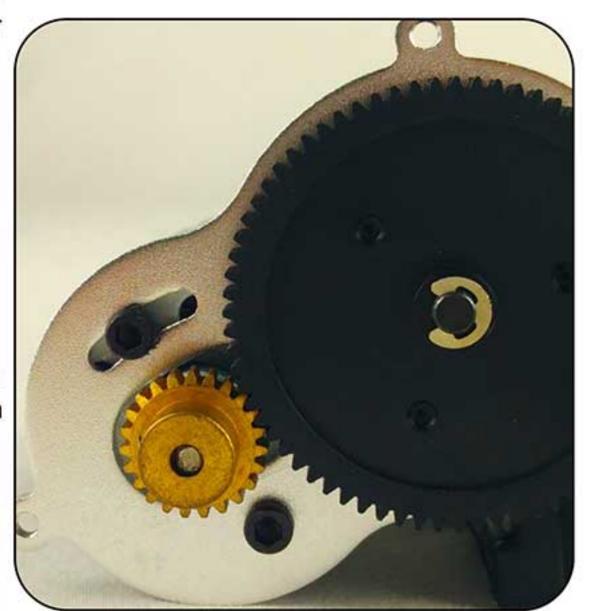
Frequently check the whole vehicle for loose or missing fixings. Use thread lock on any replacement screws into metal threads.

Frequently check rotating parts are free from grass, string etc. 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 or anything that might have been wrapped around the axle and 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 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:

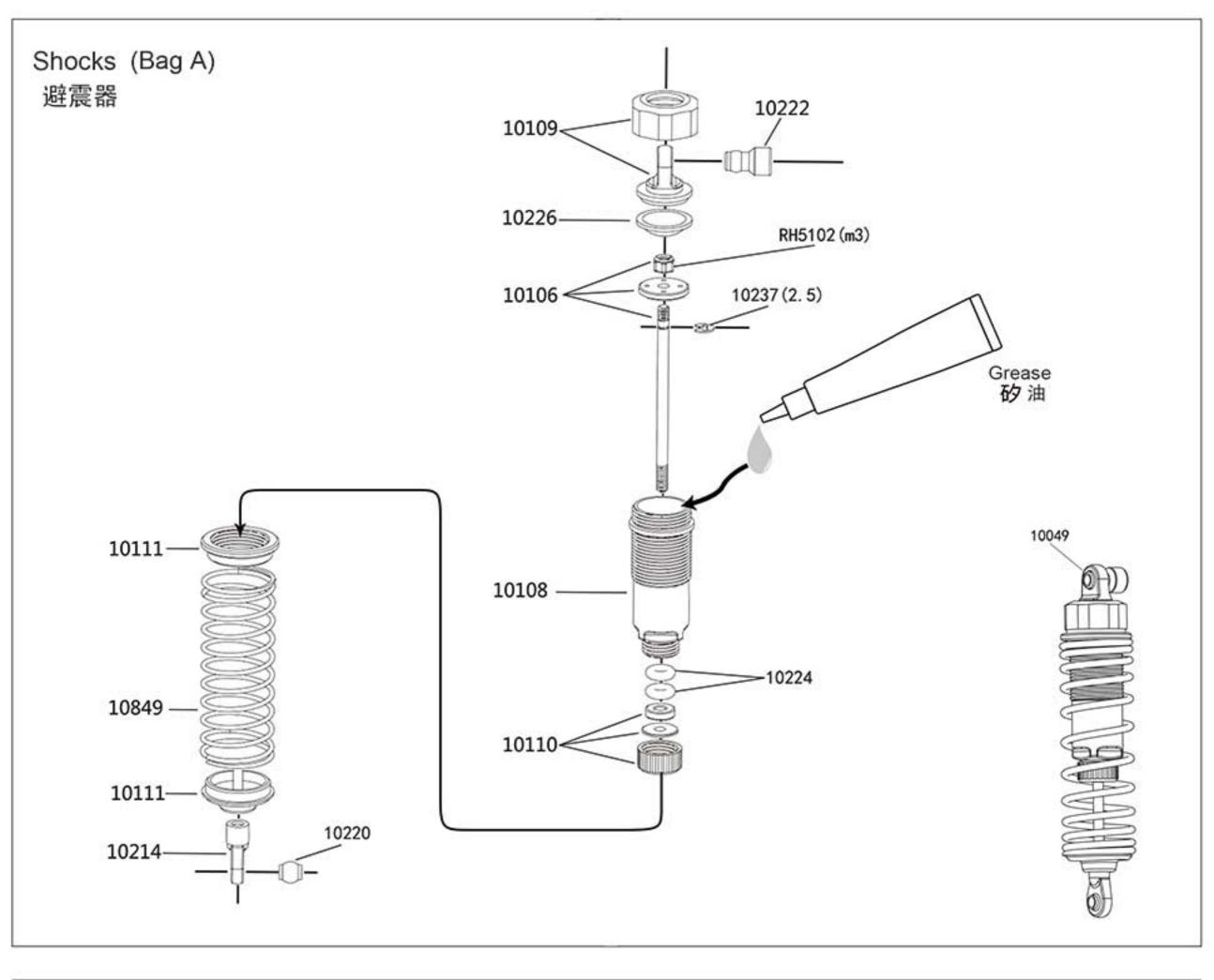
Visually inspect the pack checking for damaged leads, connectors, cracked heat shrink covering, swelling or other abnormalities. Do not charge if the pack is damaged.

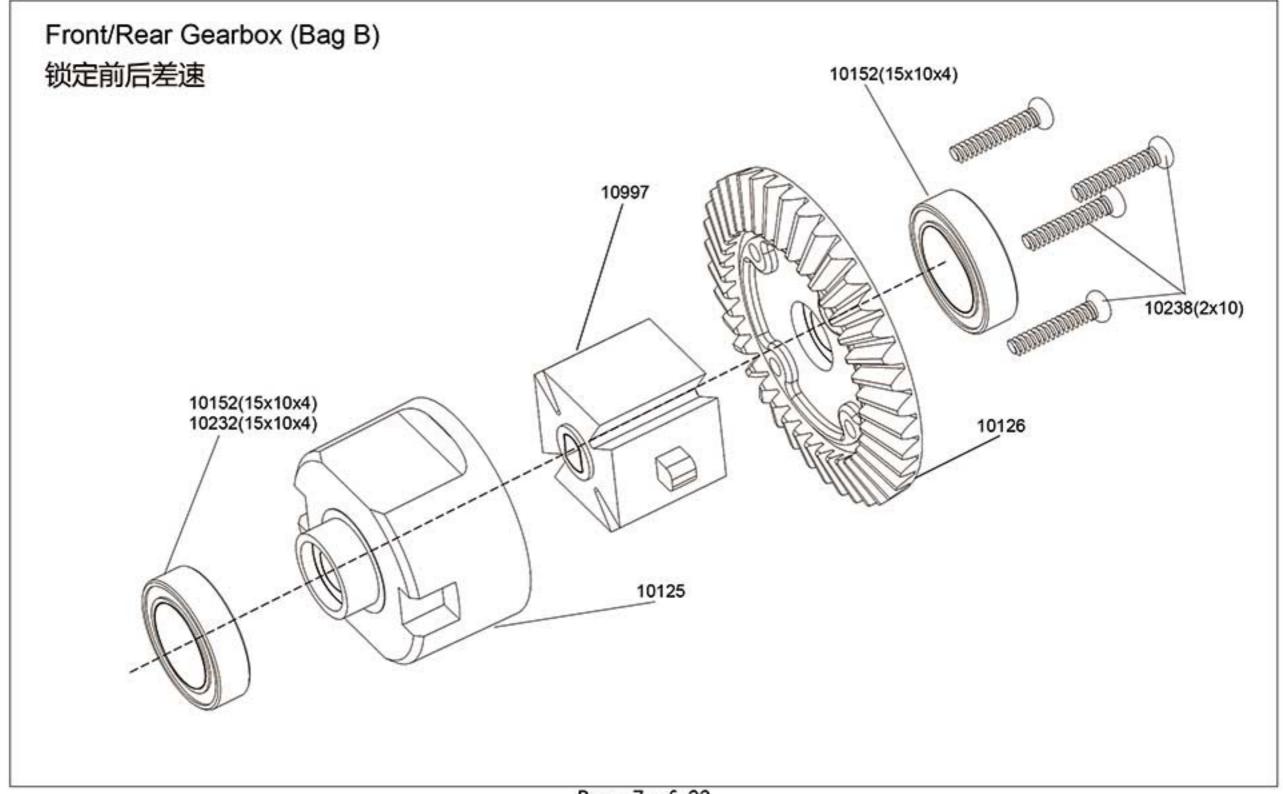
Charging process:

- 1.NEVER charge unattended.
- 2. 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)

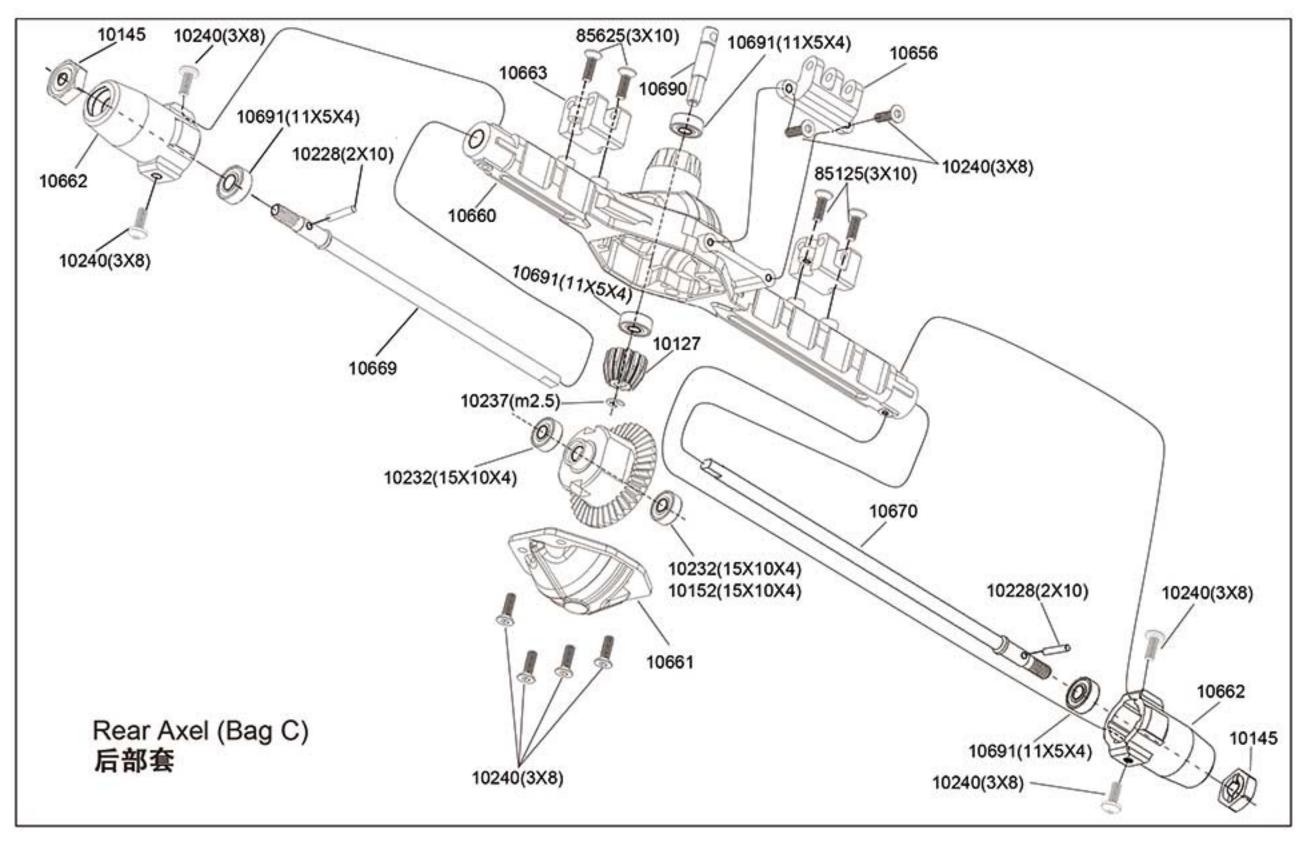
If disposing of a Lipo battery proceed as follows:

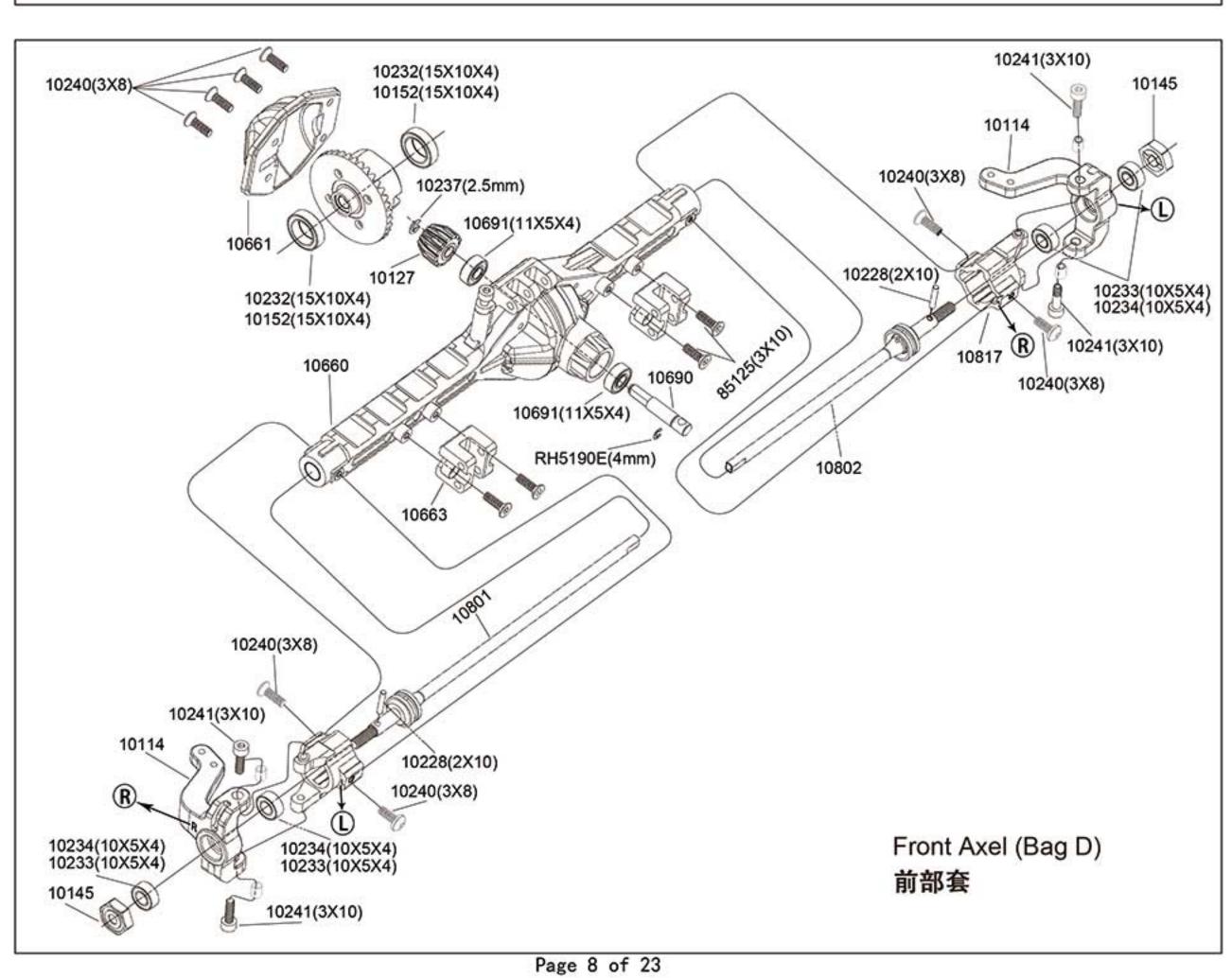
Submerse the battery into a container filled with about 10 litres of salt water(one cup of salt in 10L). Leave the battery submerged for 2 weeks, this will slowly and safely discharge the battery until the voltage has dropped to zero volts which eliminates the risk of any chemical reaction. It can then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

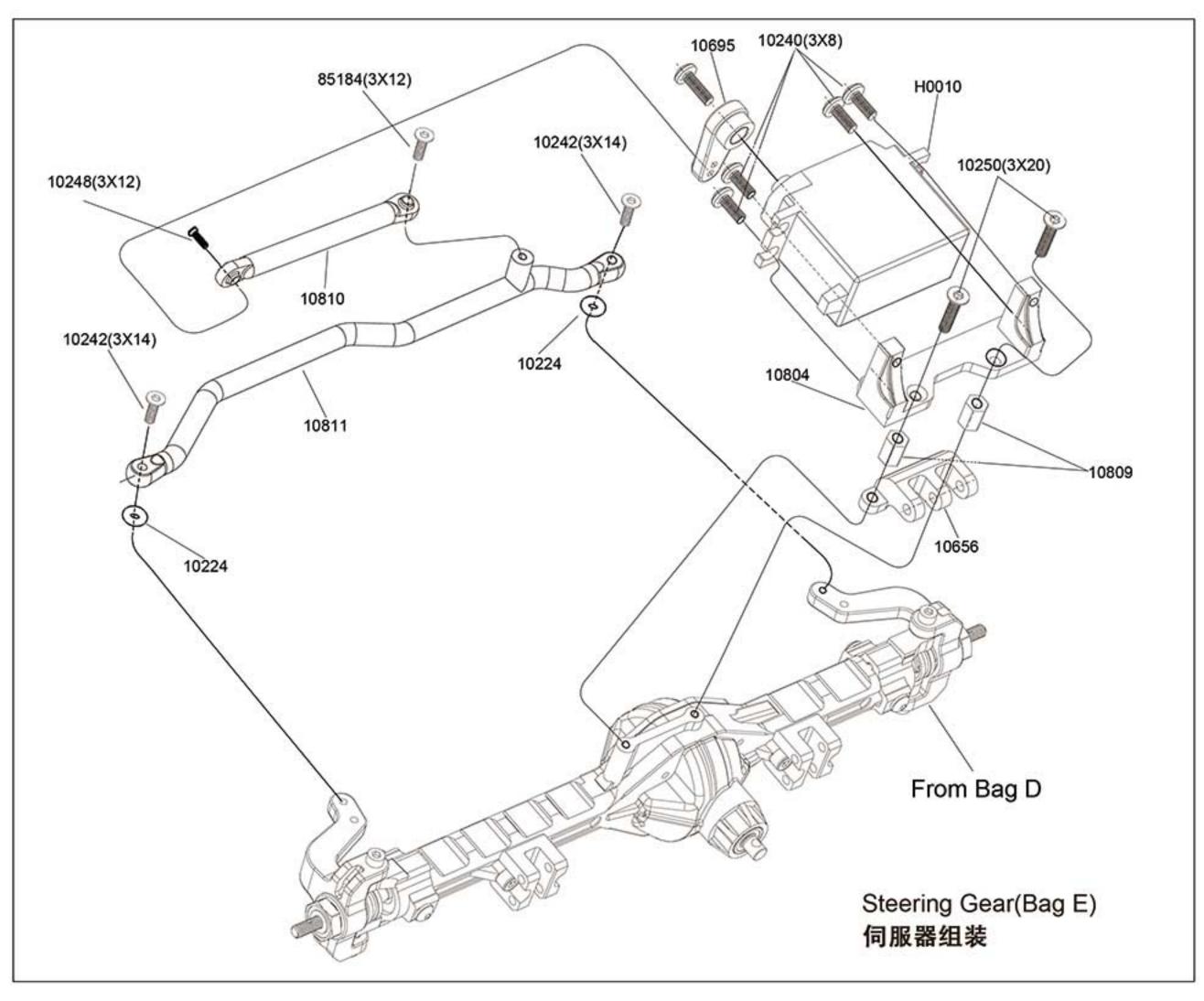


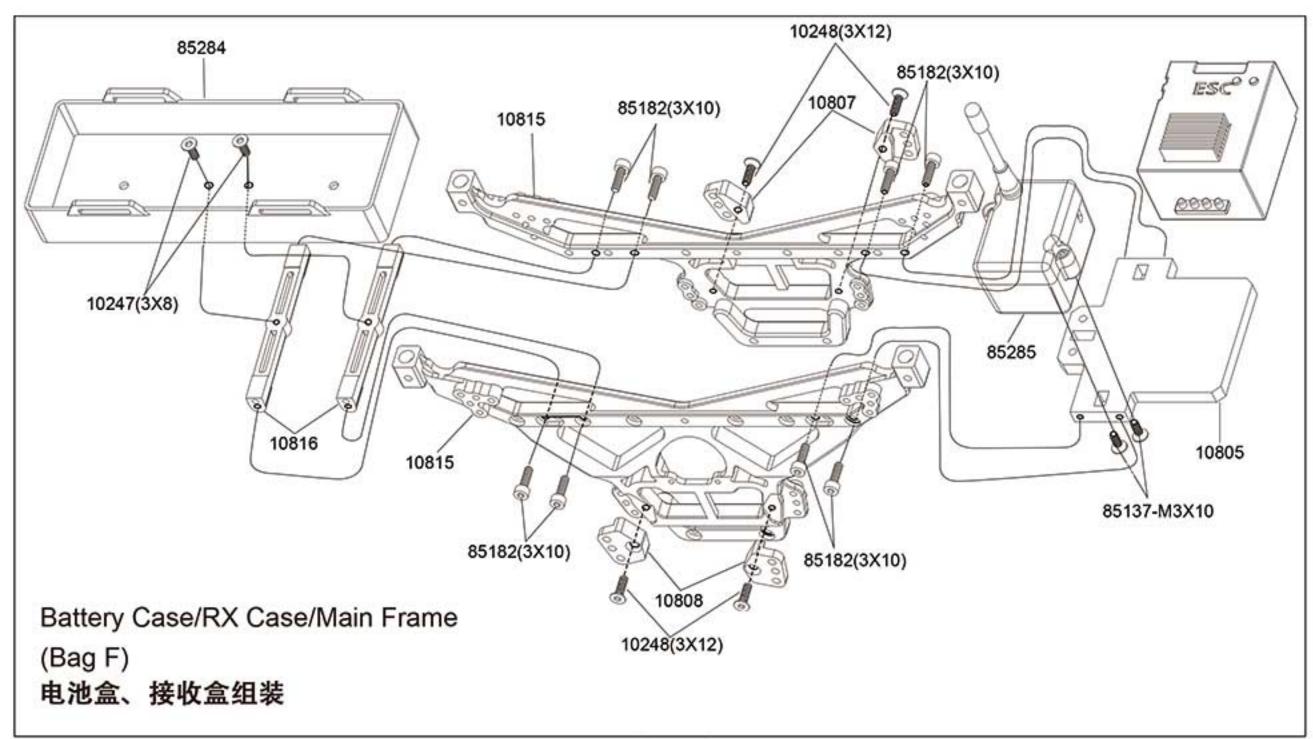


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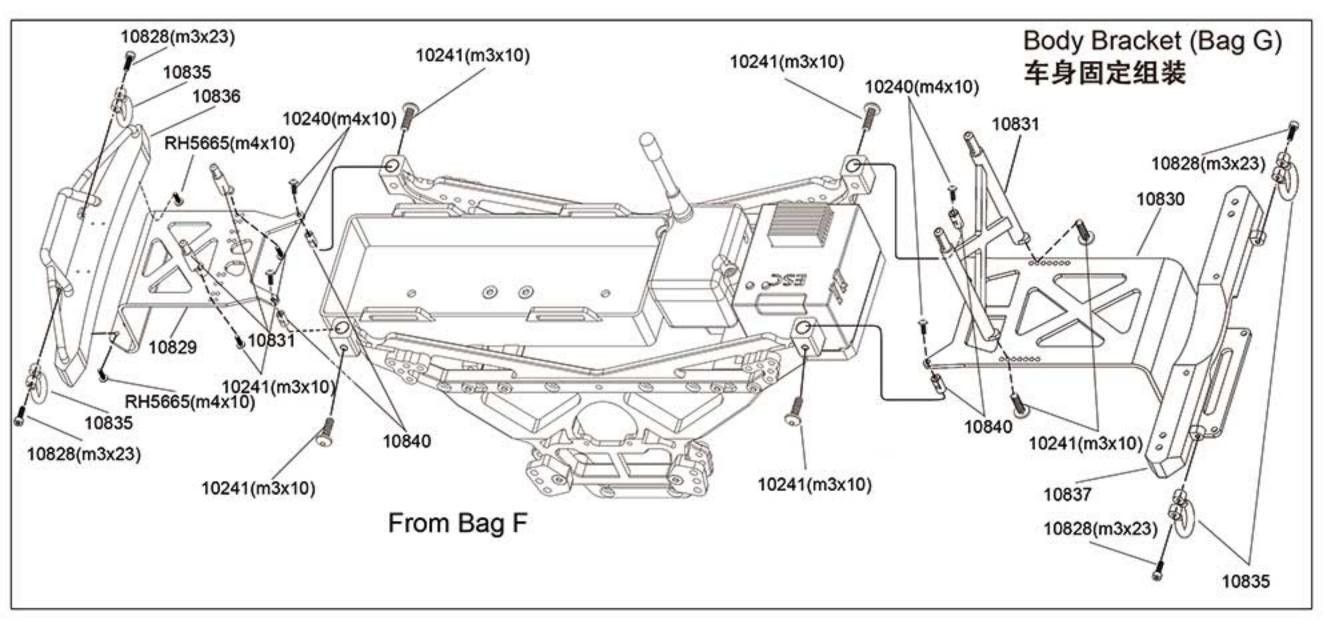




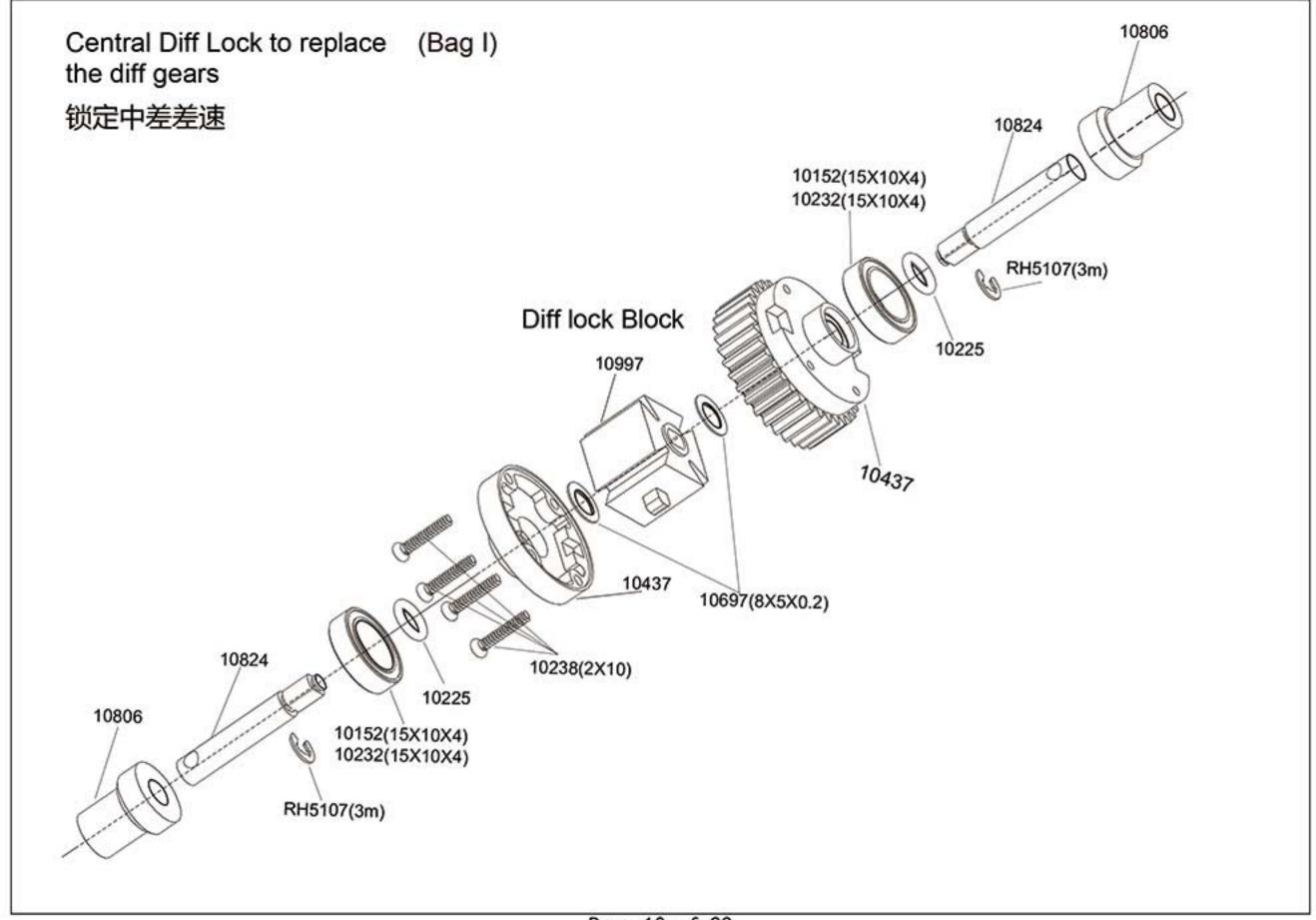




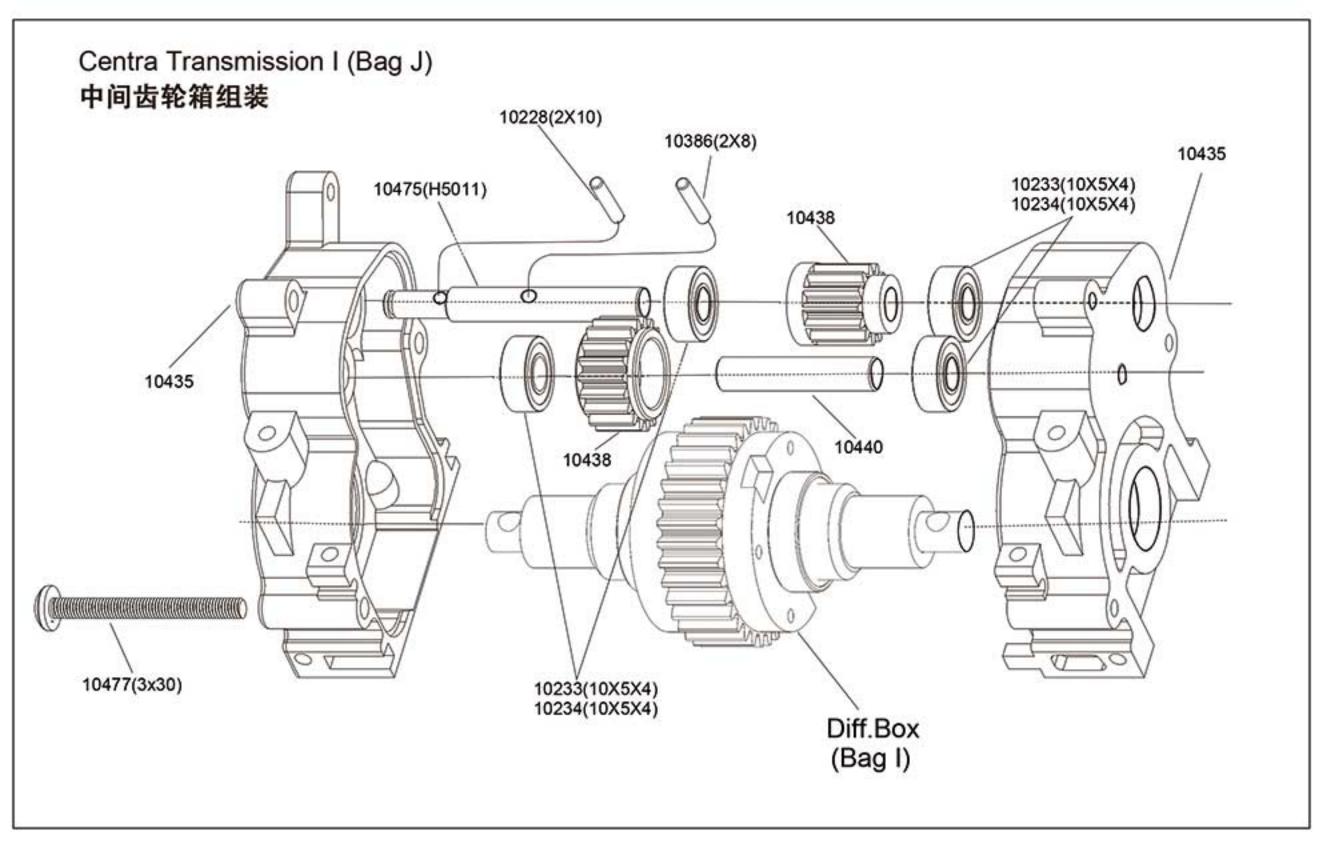
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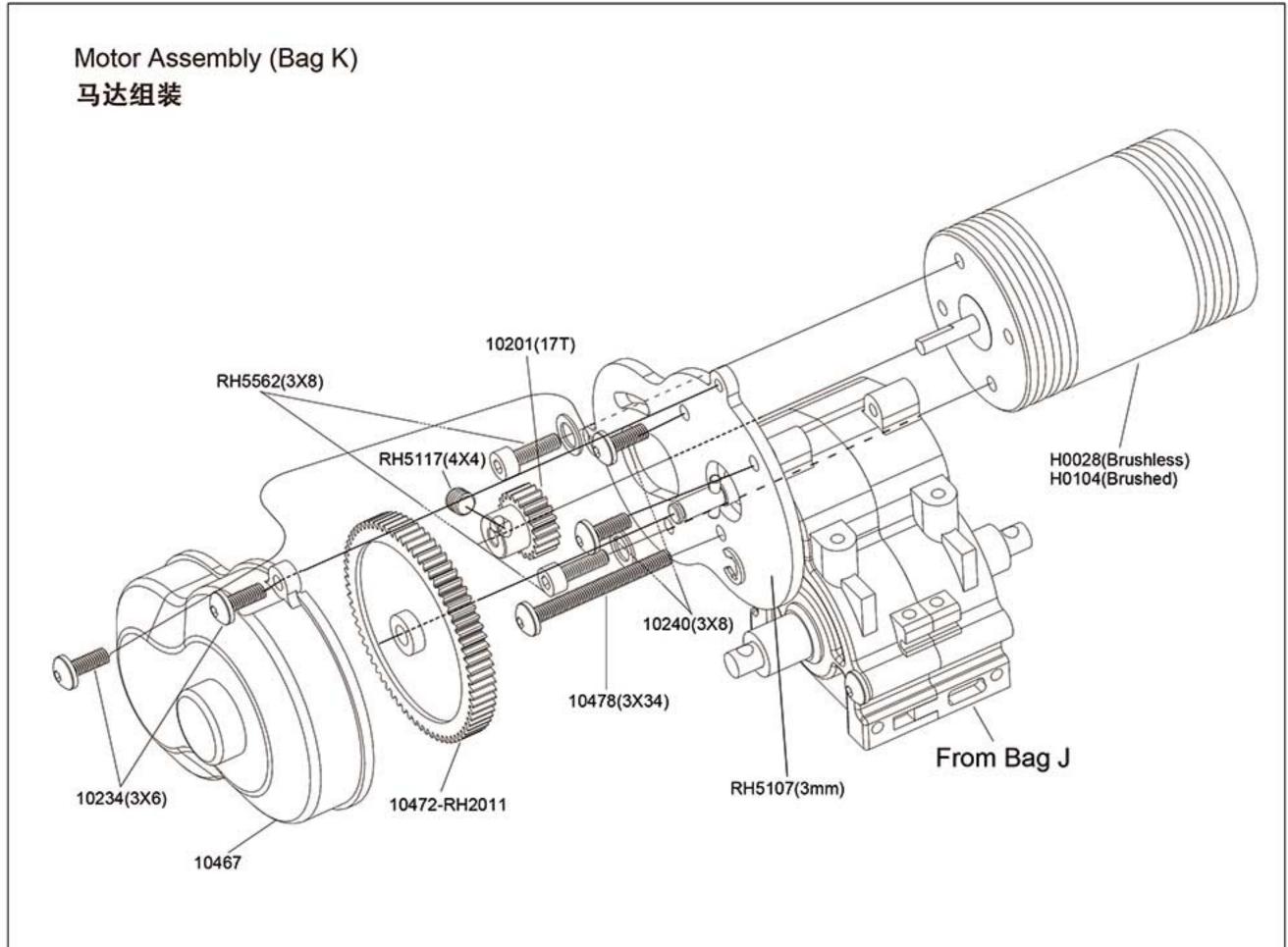




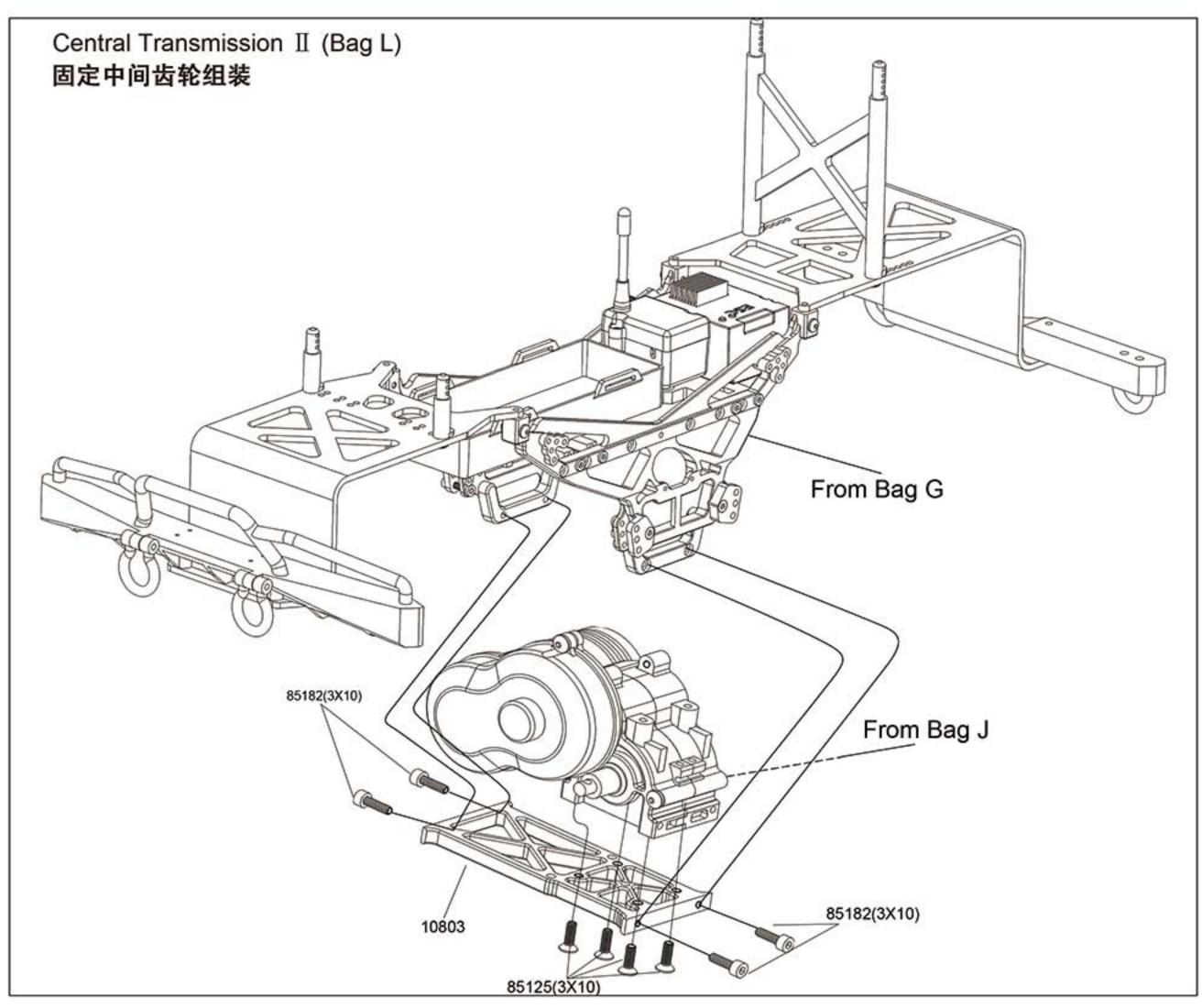


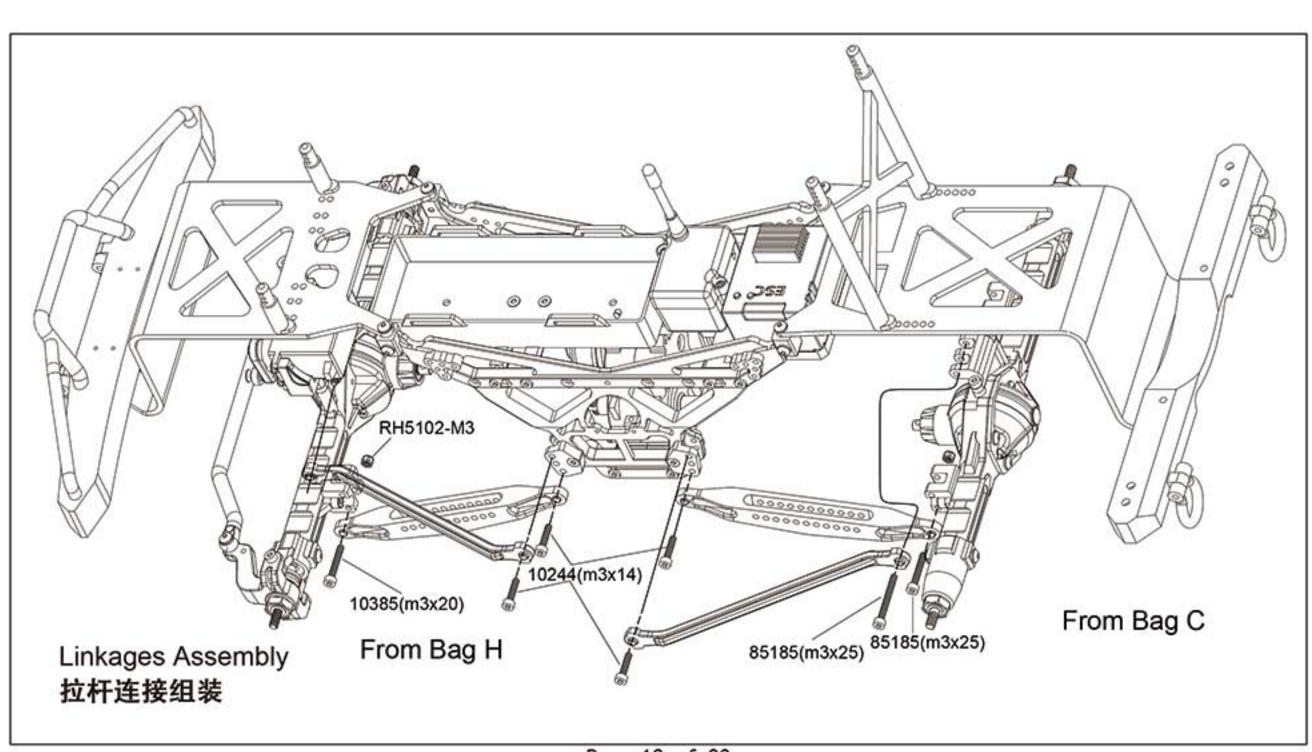
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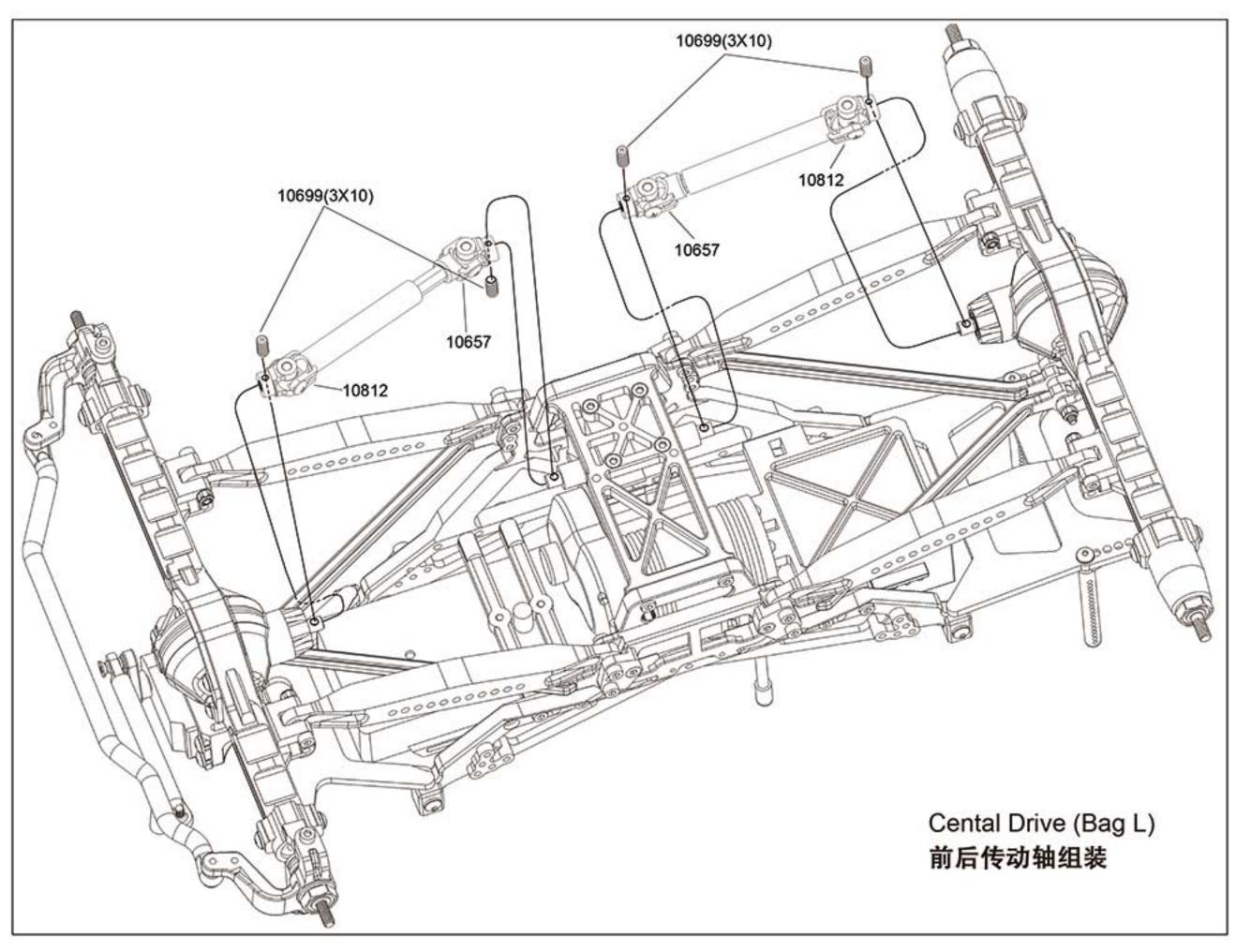


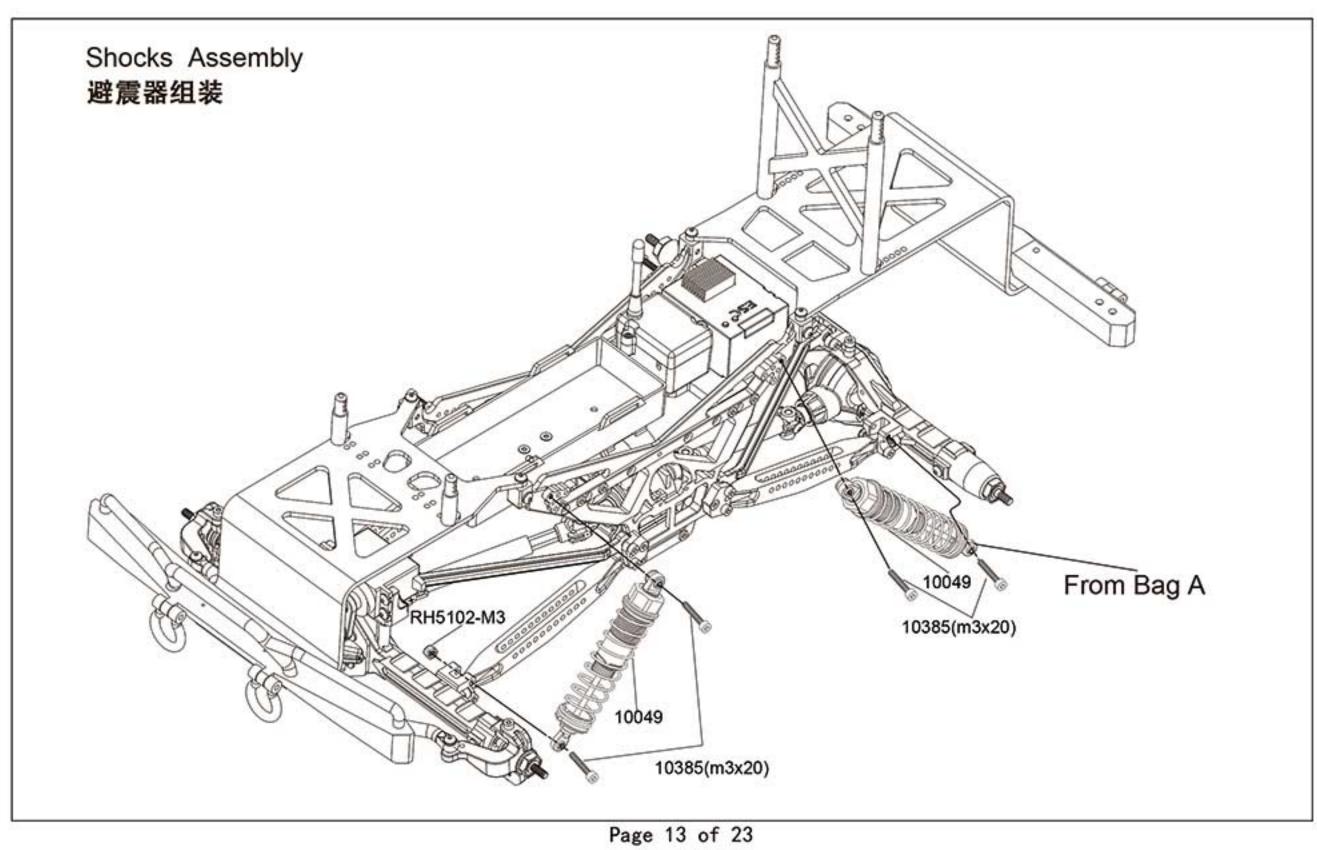
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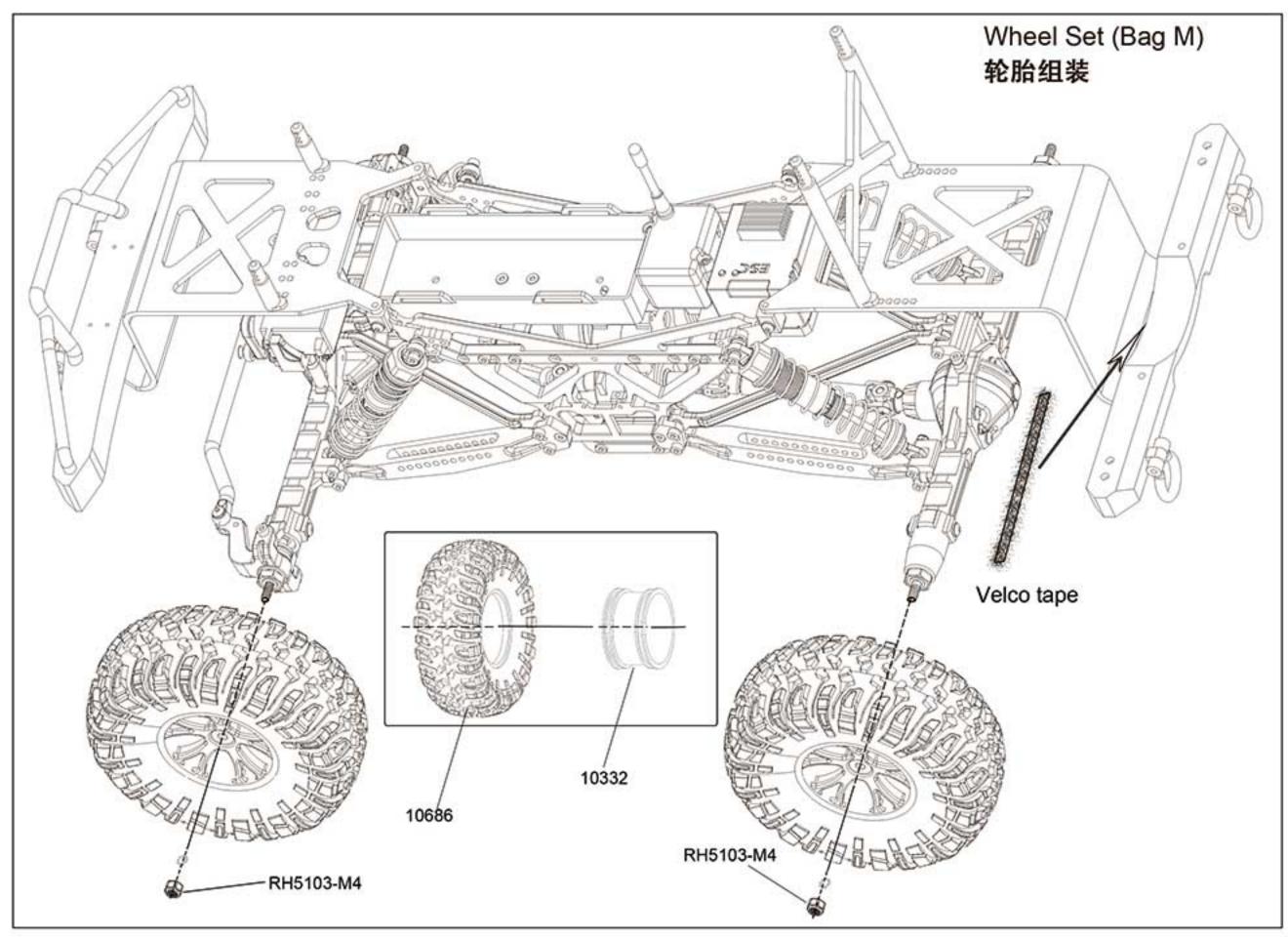


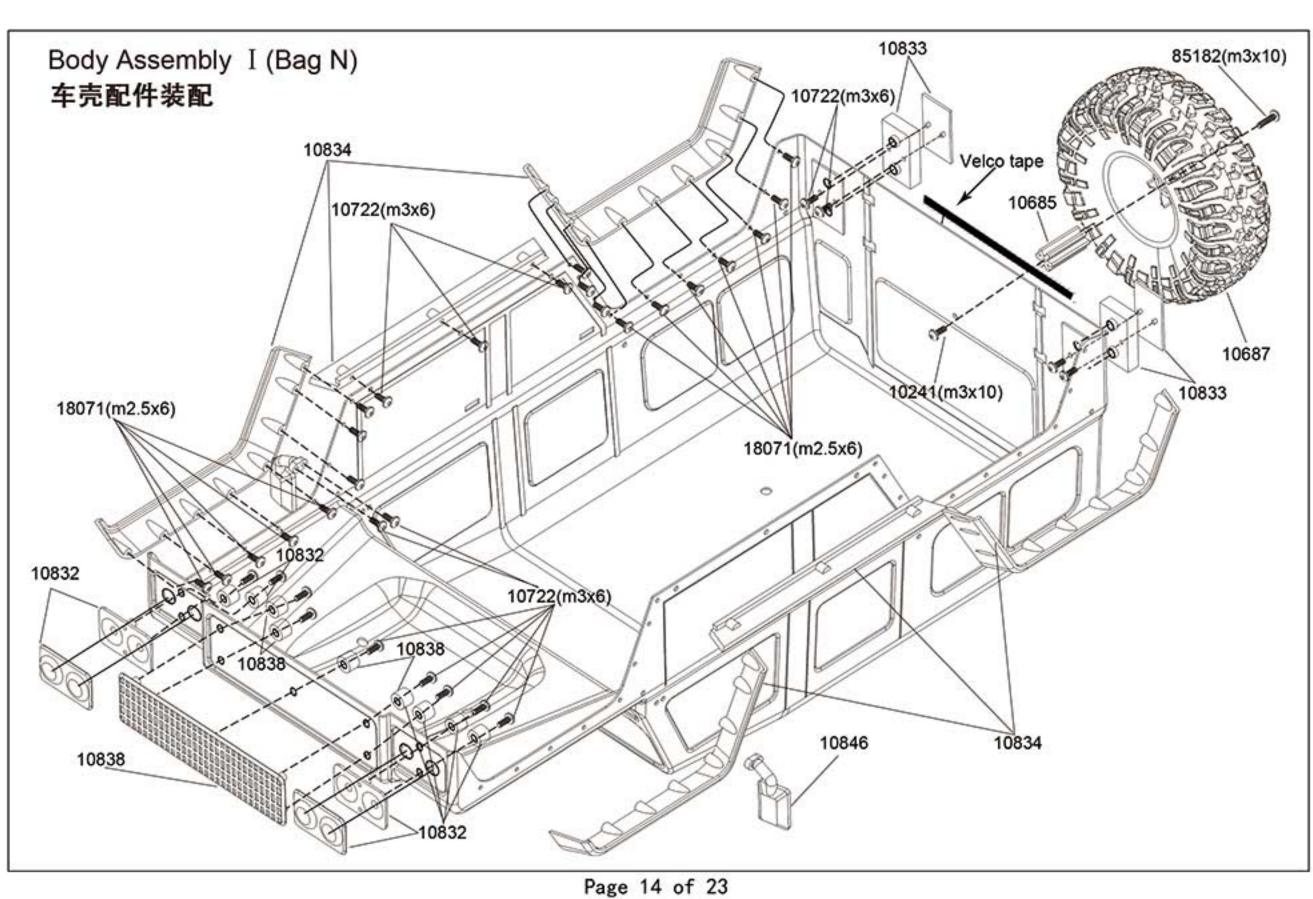


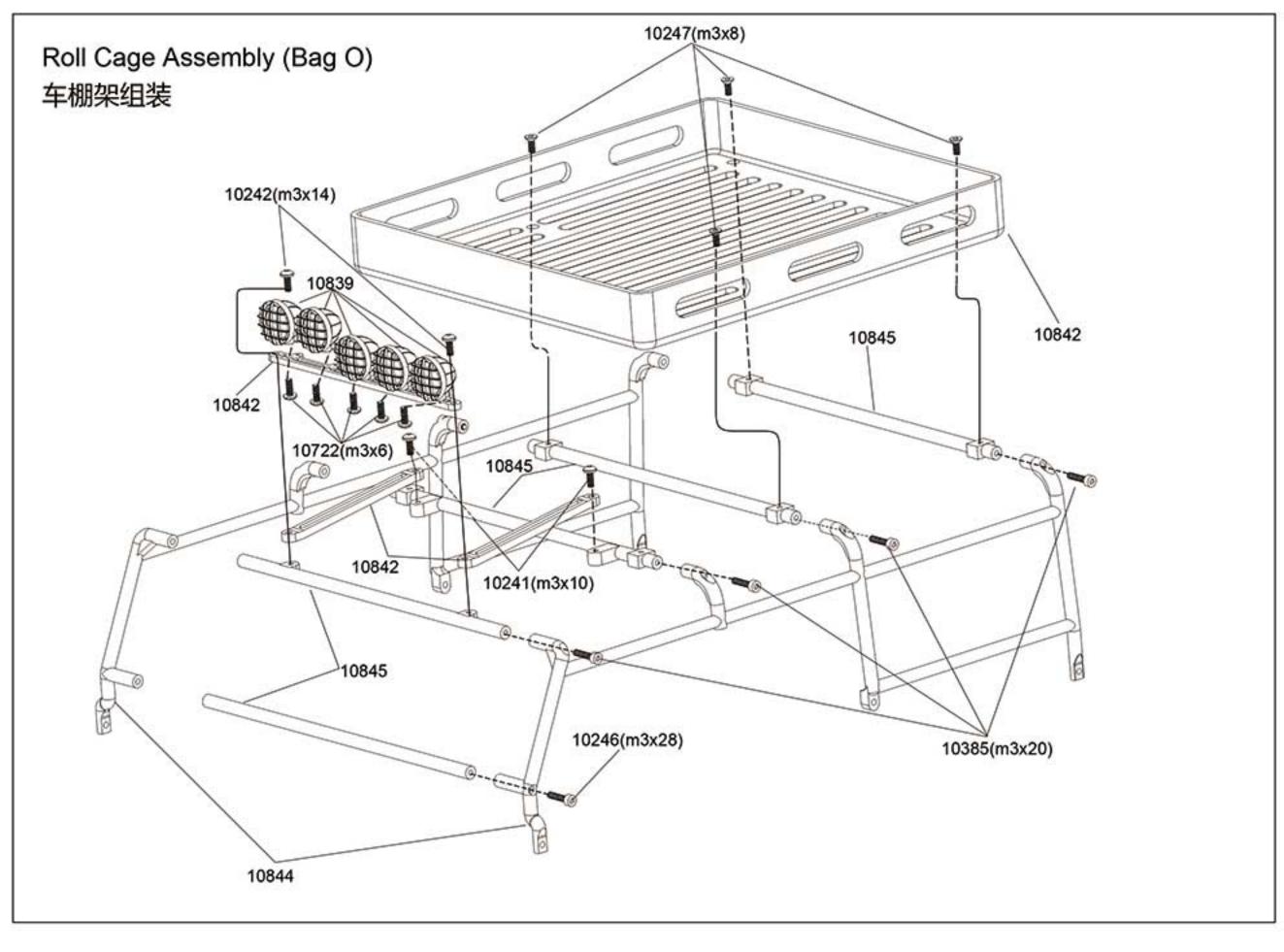
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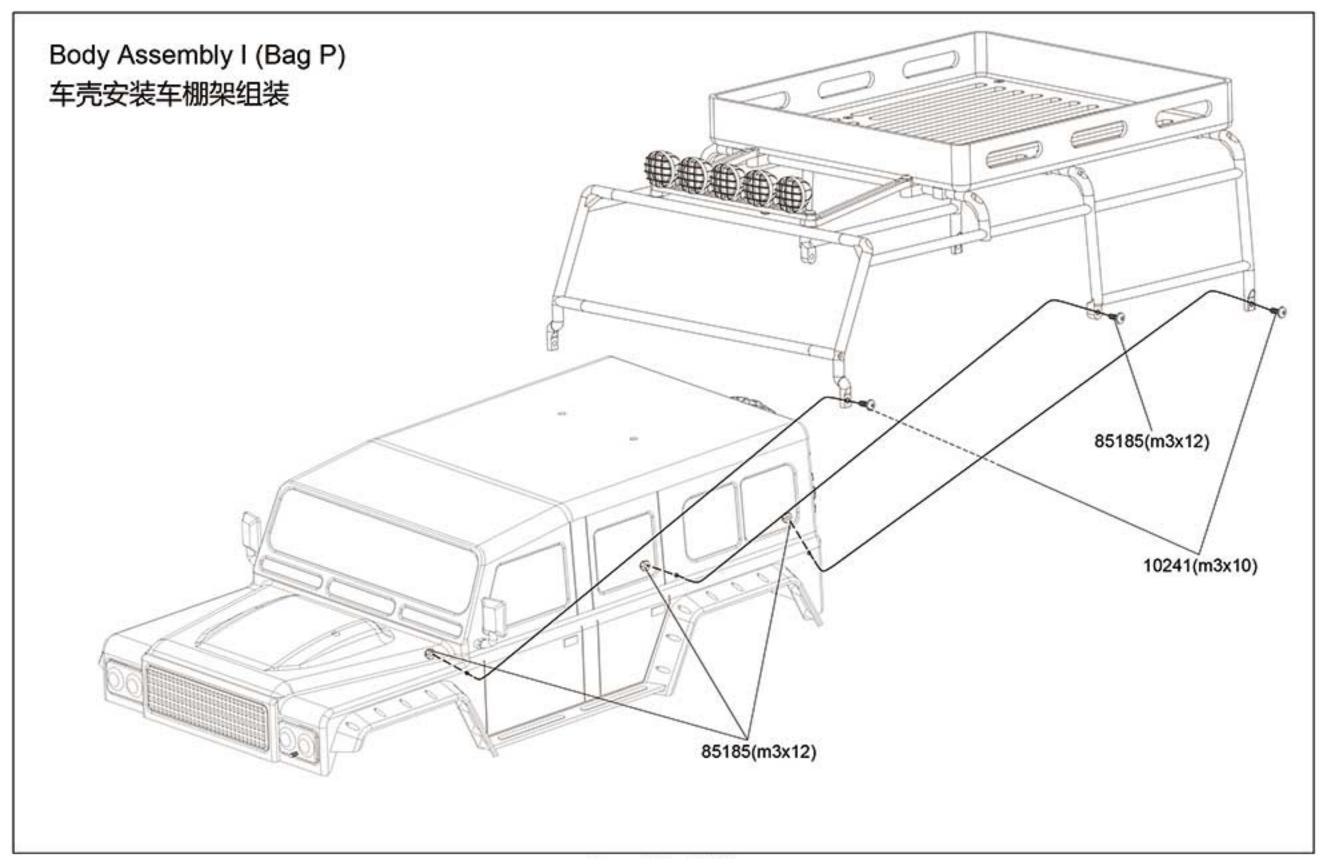




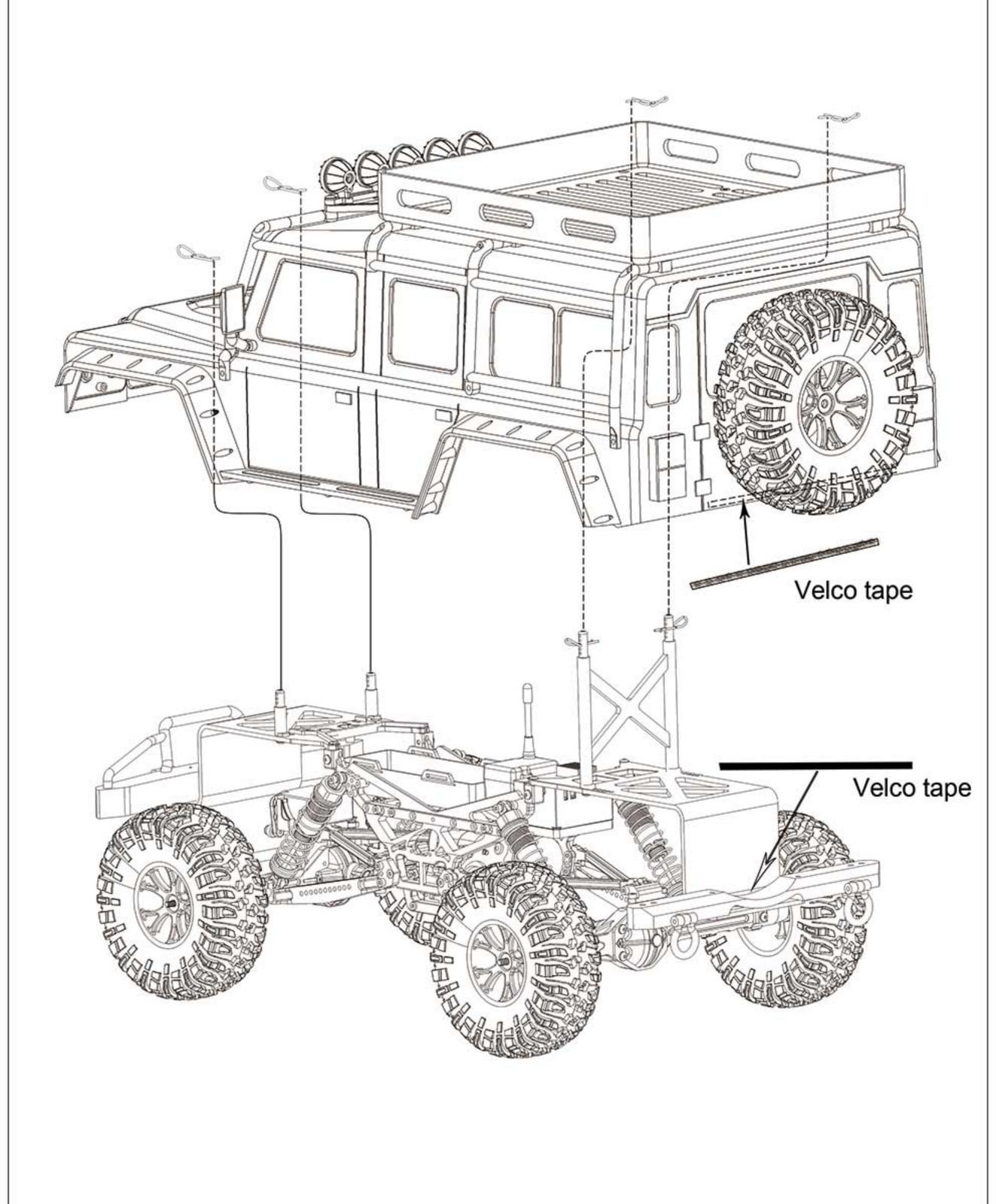








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10801-CVD long 1pcs	10802-CVD short 1pcs	10803-Chassis plate 1pc	10804-Servo mount 1pc
10805-ESC bracket 1pc	10806-Drive coupler 2pcs	10807-Support rod holder L. 2pcs	10808-Support rod holder R. 2pcs
10809-Servo mount post 2pcs	10810-Steering rod S. 1pc	10811-Steering rod L. 1pc	10812-Central CVD Outer half 1set 10812S-Central CVD Outer half w/steel coupler 1set
88			
10815-Main Frame 2pcs	10816-Battery case holder 2pcs	10817-Steering knuckle 2pcs	10823-Roll cage spacer 4pcs
			0 0
10824-Central diff shaft 1pc	10686 Tyres & foam 2sets	10687 Preassembled Tyres 2sets	10332 Rim 2pcs
10665-Rear link set 2pcs	10675-Rear shocks lower Support Rod 2pcs	RH5107-E clip-3mm 6pcs	10472-70T Spur Gear 1pc (Brushed)
		000	

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10656 Rearlink holder	10657-Central CVD Inner half 1set 10657S-Central CVD Inner half With steel coupler 1set	10660 Rearaxle housing	10661 Rear axle cover
10662 Axle adaptor 2pcs	10663 Rear holder for rear shock suppert rod 2pcs	10049 - Rear Shock Tower 2pc(AI)	10690 Rear diff shaft 1pc
10106-Rear Shock Shaft & Piston Set 2sets	10108-Rear Shock body 2pc (AI)	10109-Shock Upper Cap 2sets	10110-Shock Lower Caps 2sets
10111-Shock Lower holder & Adjust Ring 2sets	10125-Diff Case 2pcs	10126-Diff Drive Spur Gear 2pcs	10127-Diff Drive Gear 2pcs
10128-Diff Bevel Gear S. 4pcs	10129-Diff Bevel Gear B. 4pcs	10130-Diff Pin 2pcs	10131-Washer 6pcs
	0.8		0 0 0
10145-Wheel Hub 4pcs	10146-Antenna Pipe Set 2sets	10475-Sliper shaft(EBD) 1pc	85034-Body Clip (Medium Size) 6pcs

10416-Pinion gear 30T 1pc	10435-Gearbox housing set 2pcs	10437-Diff Case 2pcs	10438-19T Gear 1pc
			19T
10439-13T Gear 1pc	10440-Gear shaft 1pc	10442-Motor Mount 1pc	10467-Gear cover 1pc
13T		· (5:5)	
10201-Pinion gear 17T 1pc	10161-Servo Horns	10152-Metal Bushing 15*10*4 ópc	RH5102-Nylon Lock Nut M3 6pc
RH5103-Nylon Lock Nut-M4 6pc	85284 Battery case	85286 Velco Tape 2pcs	R0259-Clear body only 1pc
		veicro	
R0256-Painted body unly 1pc	10214-Shock Ball End 6pcs	10215-Servo Link Ball End 6pcs	10216-Steering Linkage Ball End 6pcs
	8 8 8	D D D	2000
10691 Ball bearing (11*5*4mm) 6pc	10694-Pin ∮2*13 6pcs	10697 Washer (8*5*0.2mm) 6pc	18073-Button Head Hex Screw
0000		000	M2.5*10 6pc

RH5190-E clip-4mm 6pc	10237-E clip-2.5mm 6pc	10220-Ball A 6pcs	10221-Ball B 6pcs
000	000		9 9 9
10222-Ball C 6pcs	10224-Shock 0-ring(Lower) 6pcs	10225-Diff O-ring Seal 6pcs	10226-Shock seal cover 4pcs
8 8 8		000	
10228-Pin ∮ 2*10 6pcs		10233-Ball Bearing 10*5*4 6pcs	
	Spos Spos	000	6pcs
10253 - 1/10 Charger CE 1pc 10254 - 1/10 Charger UL 1pc	85175-Button Head Hex. Tapping Screws 3*10 8pcs	85285-RX case 1set	H0010 - 9kg/cm Servo 1pc
10255 - 1/10 Charger BS 1pc	TTTTT		
H0030-Ni-MH 7. 2V 1800mAh 1pc H0031-Ni-MH 7. 2V 3000mAh 1pc	H0050-400A ESC 1pc	H0104 - 540 Brushed Motor 1pc	85125-Flat Head Hex Screw M3*10 8pc
		60T	TTTTTT
10699-Set Screw M3*10 6pc	RH5562-Cap Head Hex Screw M3*8 6pc	RH5117-Set Screw M4*4 6pc	10828-Cap Head Hex Screw M3*23 6pc
	TTTTT		

10238-Round Head Self Tapping Hex Screw 2*10 6pc	10239-Round Head Self Tapping Hex Screw M3*6 6pc	10240-Button Head Hex Screw M3*8 ópc	10241-Button Head Hex Screw M3*10 ópc
	TTTTT	TTTTT	TTTTTT
10242-Button Head Hex Screw M3*14 6pc	10243-Cap Head Hex Screw M3*10 6pc	10244-Cap Head Hex Screw M3*14 6pc	10245-Cap Head Hex Screw M3*18 6pc
TTTTT	TTTTT		
10247-Flat Head Hex M3*8 6pc	10248-Flat Head Hex Screw M3*12 ópc	10249-Flat Head Hex Screw M3*14 6pc	10250-Flat Head Hex Screw M3*20 6pc
TTTTT			
10385-Cap Head Hex Screw M3*14 6pc	10477-Button Head Hex Screw M3*30 6pcs	10478-Button Head Hex Screw M3*34 6pcs	10722-Umbrella head screw M3*6 14pcs
			TTTTTT
85137-Flat Head Self Tappong Screw Set 3*10mm 12pc	85182-Cap Head Hex Screw M3*10 6pc	85184-Button Head Hex Screw M3*12 6pc	85185-Cap Head Hex Screw M3*25 6pc
		TTTTT	
10698-Flat Head Hex M3*6 6pc	10829-Frout body bracket(AI) 1pc	10830-Rear body bracket(AI)1pc	10831-Body posts 1set
TTTTT	EXI	HXII	

10832-Front light bracket 1set	10833-Rear light bracket 1set	10834-Mudguard & Pedal 1set	10835-Rescue Rings 4pcs
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0836-Rear Bumper 1pc	10837-Front bumper 1pcs	10838-Front exhaust plate 1set	10839-Head light bracket 5pcs
		00000	
0840-Body bracket post 4pcs	10841-Roll cage w/light bracket+tray 1set	10842-Plastic tray 1pc	10843-Head light bracket support 3pcs
0844-Body side frame 2pcs	10845-Body top frames 5pcs	10846-Rear mirrors 2pcs	10847-Clear body w/roll cage/ tray/light bracket 1set
		Į	
0848-Painted body w/roll cage/ ray/light bracket 1set	10849-Rear Shock Spring 2pc	10997-Upgrade Diff locker 1pc	H0103-550 Brushed Motor 1pc
			21T
35274-Li-Po 3250mAh 7.4V 1pc	H0028 - 3650 3000KV Motor 1pc	H0072 - 45A KS Brushless ESC	10114 -Steering Knuckle Arm 2sets
STATE OF THE PARTY			~16~

Upgrade Part List

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11025-Front Shocks (AL) 2pc	10984-Rear link holder (AI)	10986-Axle adaptor(AI)	10988-Rear AXIe housing(AI)
10989-Alum rear Axle	10991-Rear holder for rear	10918 - Wheel Hub(AL) 4pc	10923 - Alum Steering Arm 2pc
TOTOT ATUIL TEAT AXTE	shocksupport rod (AI)	© © © ©	RH1001/RH1002/RH1011/RH1013
11001-Main Frame 2pcs	11002-Chassis plate Al. 1pc	11003-Central CVD set 2pcs	11004-Battery case holder 2pcs
11005-Servo mount Al. 1pc	11006-ESC bracket Al. 1pc	11007-Support rod holder L. 2pcs	11008-Support rod holder R. 2pcs
11009-Steering knuckles Al. 2pcs	11010-Steering rods. 1pc	11011-Rear Shocks lower Support rod(AI)	11012-Rear Steering Conversion Set
11013-AL rear link set 2pcs	11016-Central CVD coupler 2pcs (steel)	10850-Top tray velco tape 2pcs	H0108-Winches 1set
H0107-LED lights 1set			