

INSTRUCTION MANUAL

1/10 Electric Short Course Truck



NO.RH1043SC

OCTANE BLAST EBD

NO.RH1045SC

OCTANE BLAST EBL

V21.05



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.

BLAST2.0



BLAST2.0



BLAST2.0



WARNING: 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

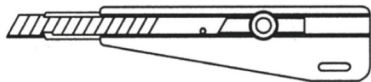
You are responsible for operating this model such that it does not endanger yourself and others, or result in damage to the product or the property of others. This model is controlled by a radio which is possibly subject to interference which can cause momentary loss of control so it is advisable to 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.

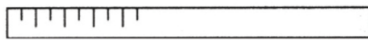
- Never operate your model with low transmitter batteries.
- Always operate your model in an open area away from cars, traffic or people.
- Never operate the model in the street or in populated areas.
- Always keep the vehicles in direct line of sight, you cannot control what you cannot see!
- Keep all 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 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

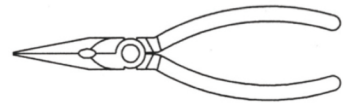
1. Tools required for building and maintenance:



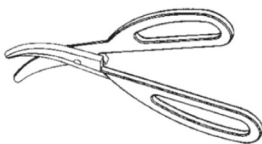
● Hobby knife



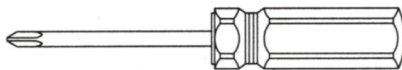
● Precision ruler



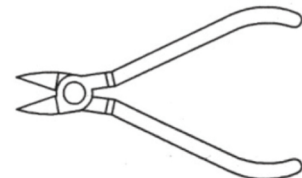
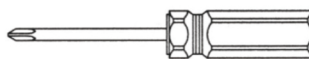
● Needle nose pliers



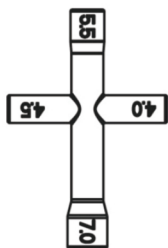
● Lexan scissors



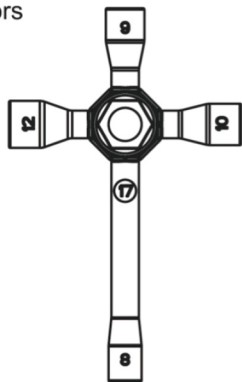
● Flat and Philips screwdriver



● Wire cutters



● Cross wrench



● Cross wrench



● CA glue&rubber cement



● Thread locking compound



1. 5mm



2. 0mm



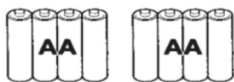
2. 5mm

● Hex wrench

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

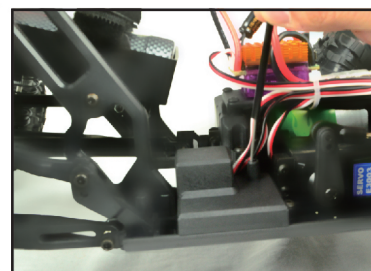
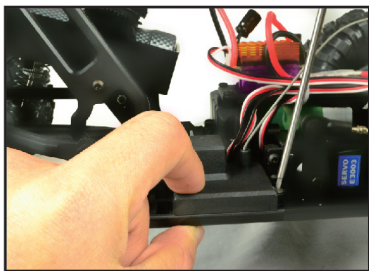
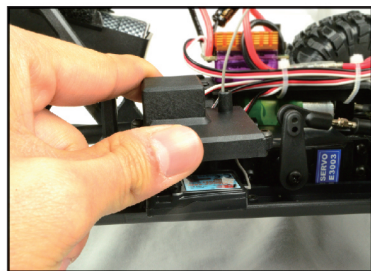
IMPORTANT!

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 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.



Octane Brushless

Charging/Installing the Battery.

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

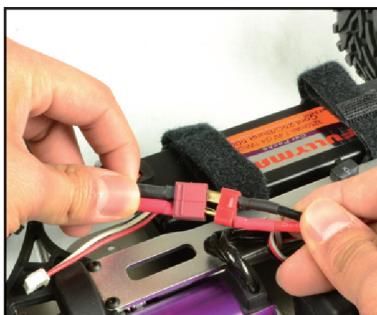
WARNING! NEVER LEAVE THE BATTERY UNATTENDED WHILE ON CHARGE.

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 you 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.

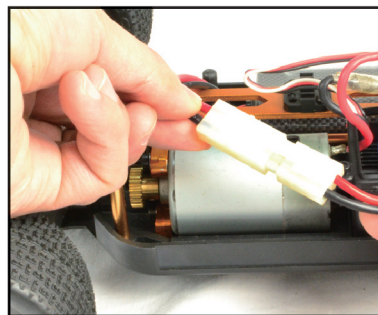
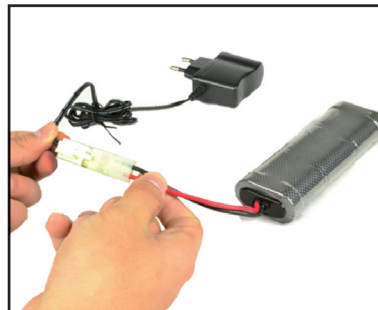
To install a charged battery, firstly remove the body shell and insert the battery into the battery case, then fasten the two Velcro straps to fix the battery stably. When connecting battery and turning car on, ensure it is off ground with wheels away from objects.



Octane Brushed

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.

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.

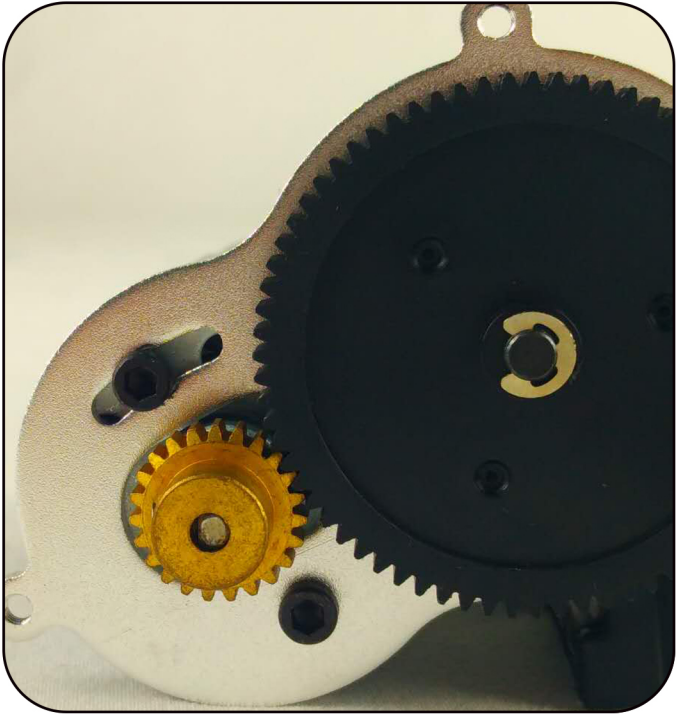
Frequently check the whole vehicle for loose or missing fixings.Use thread lock on any replacement screws into metal threads.

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
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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.

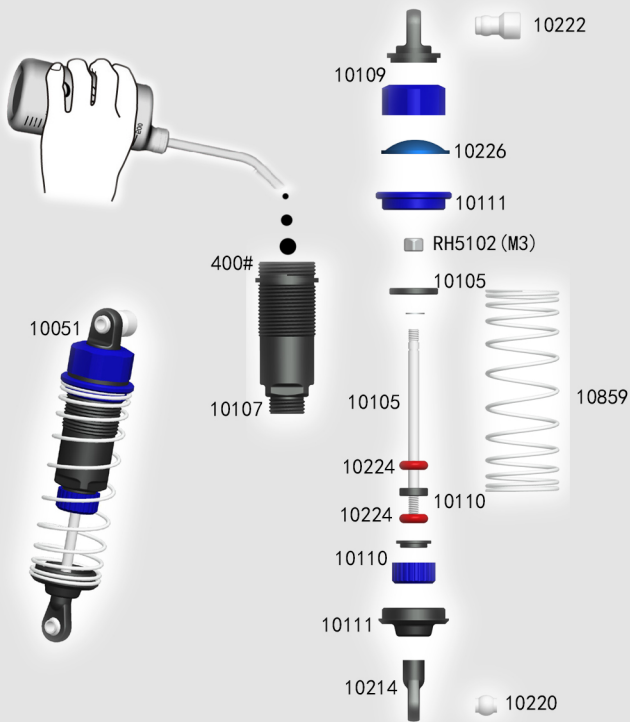
Charging process:

1. NEVER charge unattended.
2. Charge away from flammable materials and inside a Lipo safe sack or metal tin with lid.
3. 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:

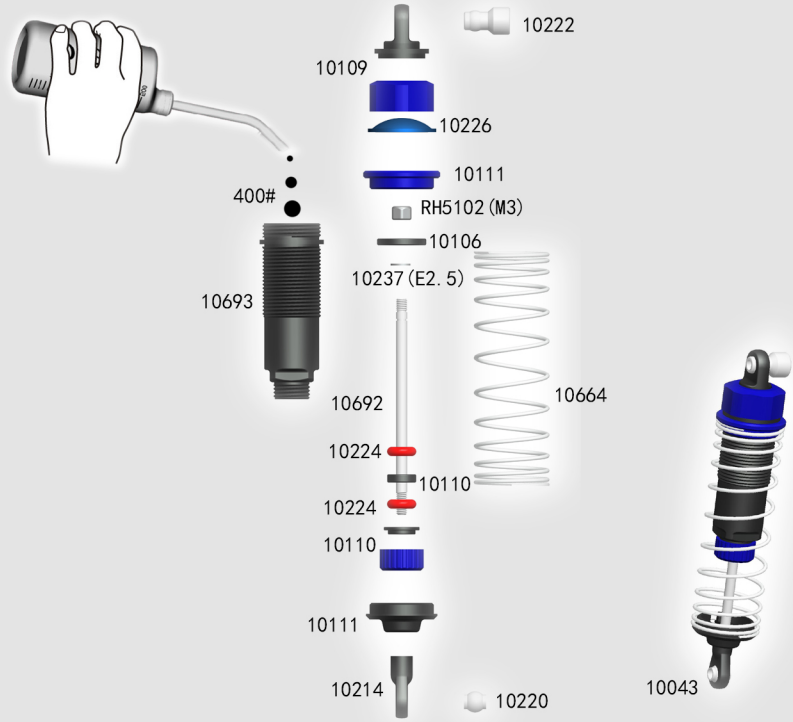
Submerge the battery into a container filled with about 10 litres of salt water (one cup of salt in 10L). Leave the battery submerged for 2 weeks, this will slowly and safely discharge the battery until the voltage has dropped to zero volts which eliminates the risk of any chemical reaction. It can then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

Front Shocks



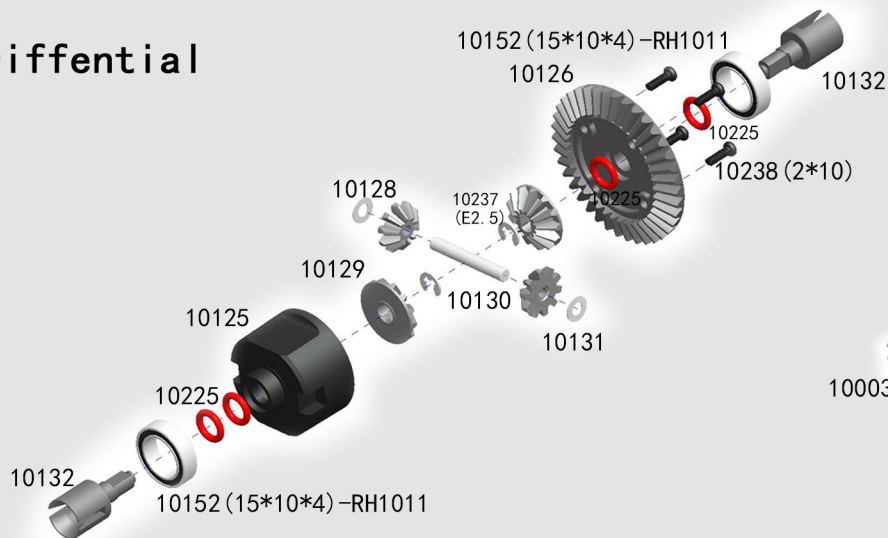
(Dia. 1-1)

Rear Shocks



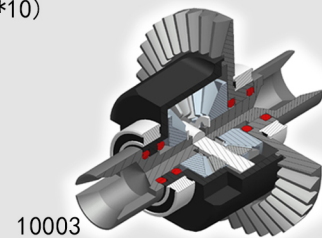
(Dia. 1-2)

Front Diffential

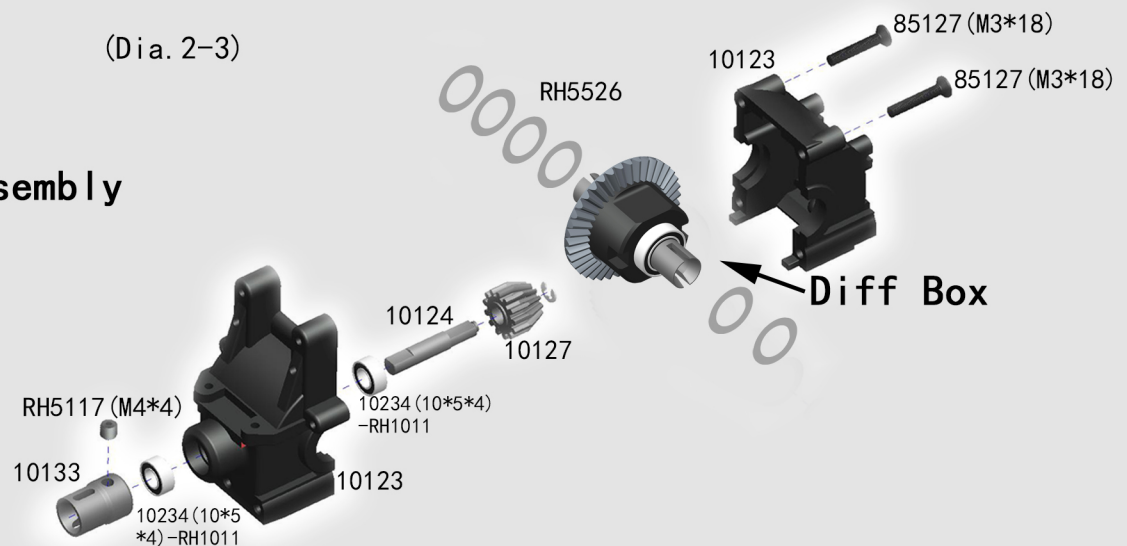


(Dia. 2-3)

Diff. Box



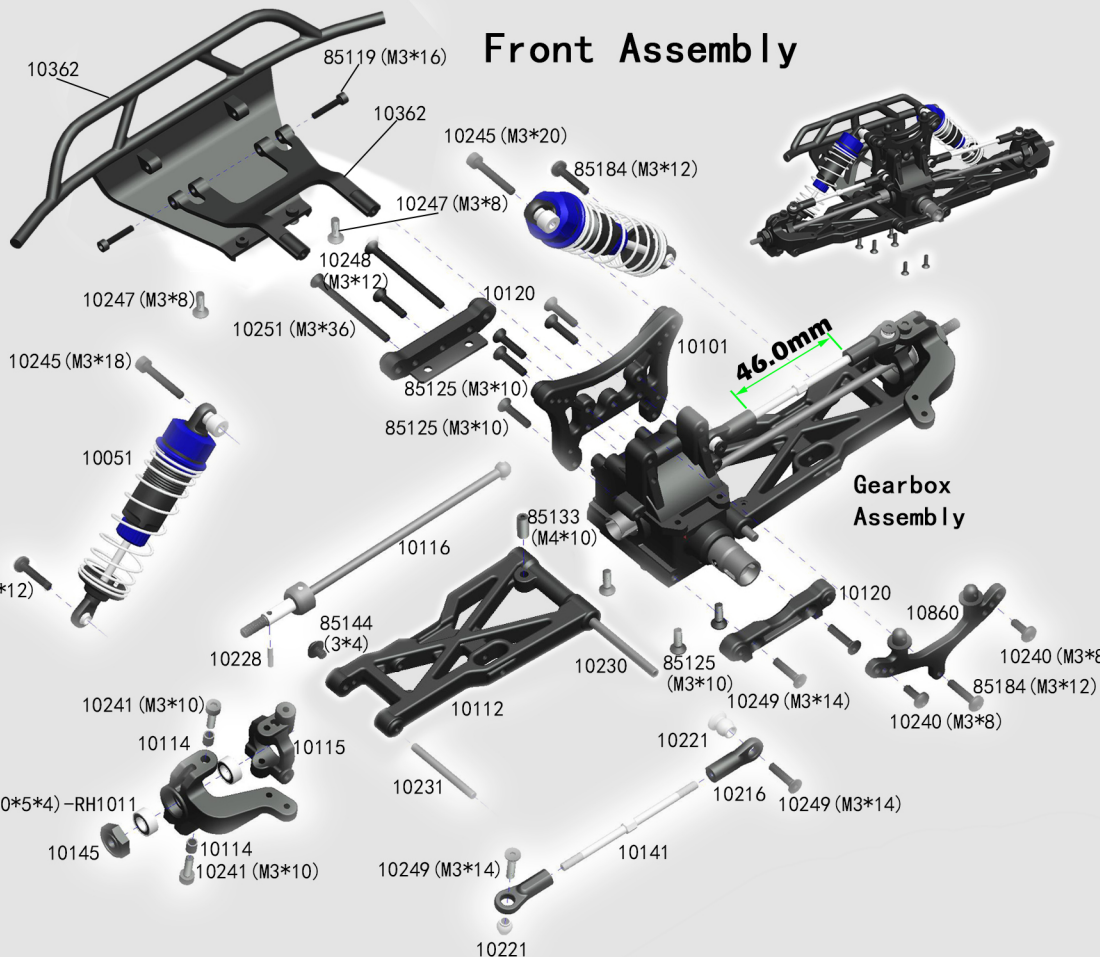
Front Gearbox Assembly



B O M

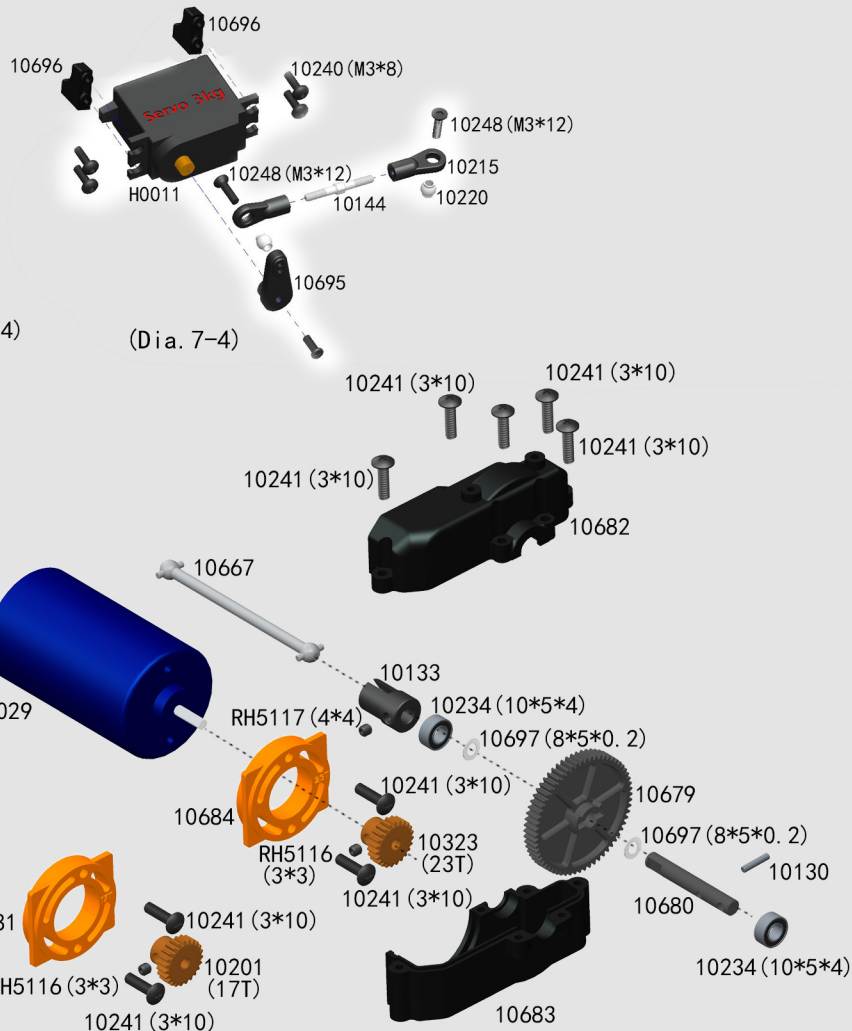
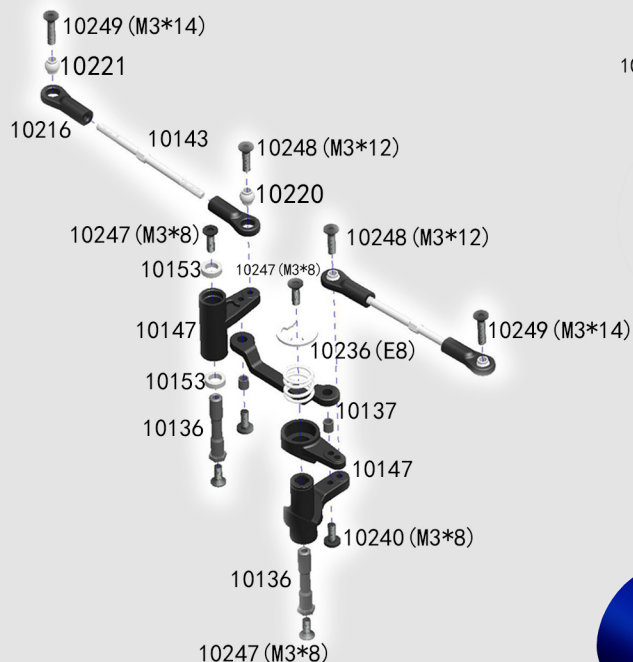
TYPE	ICON	SPEC	QTY
Round Head Self Tapping Hex Screw		2*10	4
Button Head Hex Screw		M3*8	2
		M3*10	2
		M3*12	3
Cap Head Hex Screw		M3*8	4
		M3*20	2
		M3*8	2
		M3*10	10
		M3*12	3
		M3*14	4
		M3*18	2
		M3*36	2
Set Screw		M4*4	1
Ring Self Tapping Screw		3*4	2
Washer		ø6*ø3.1*0.2	2
Nylon Lock Nut		M3	2
E clip		ø2.5	5
O' Ring		ø8.05*ø4.95*ø1.55	4
		ø6*ø3*ø2.5	4
		ø15.6*ø12.6*ø1.5	2
		ø15*ø10*4	2
Ball Bearing		ø10*ø5*4	6

(图 2-1)



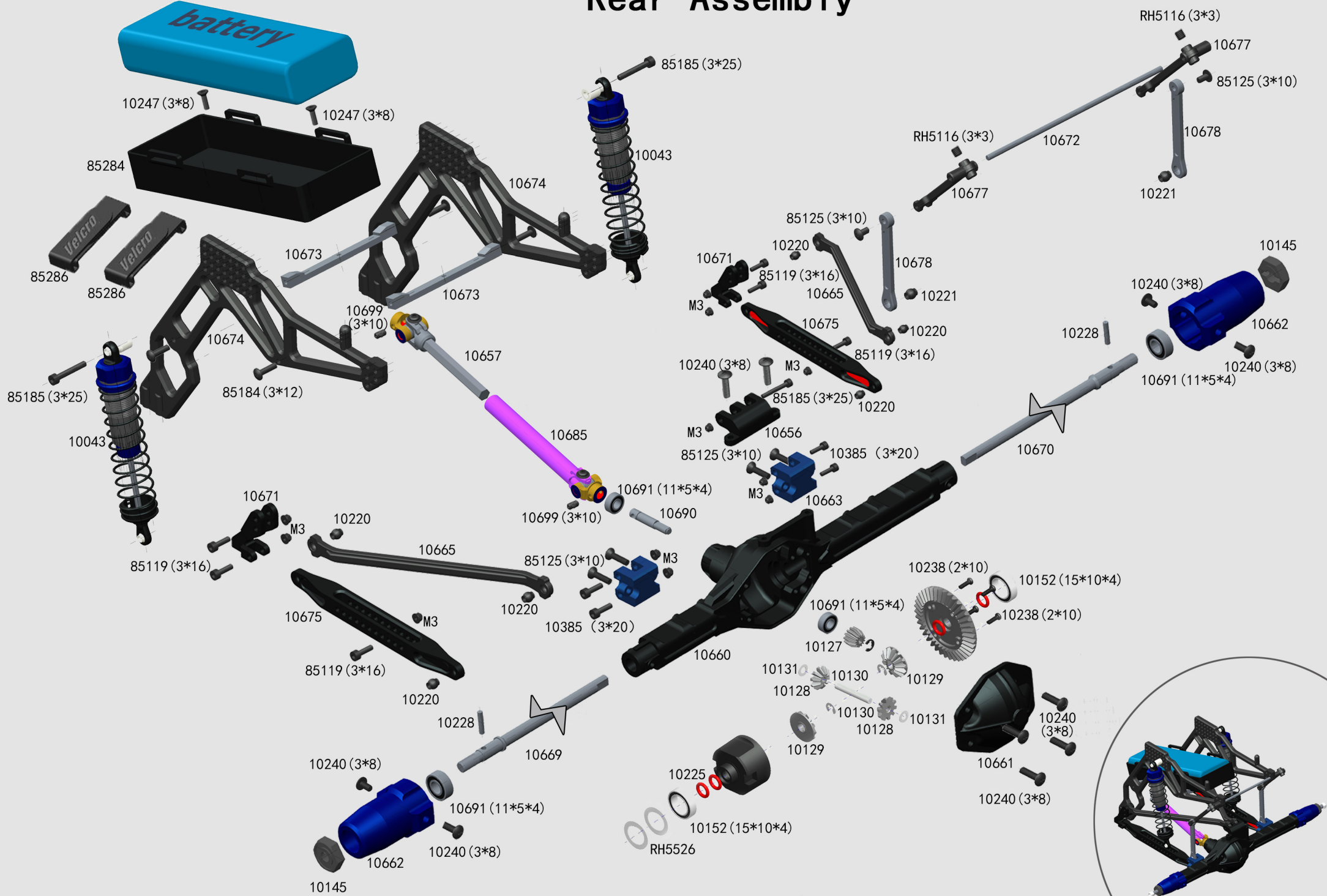
Steering Assembly

Servo Assembly

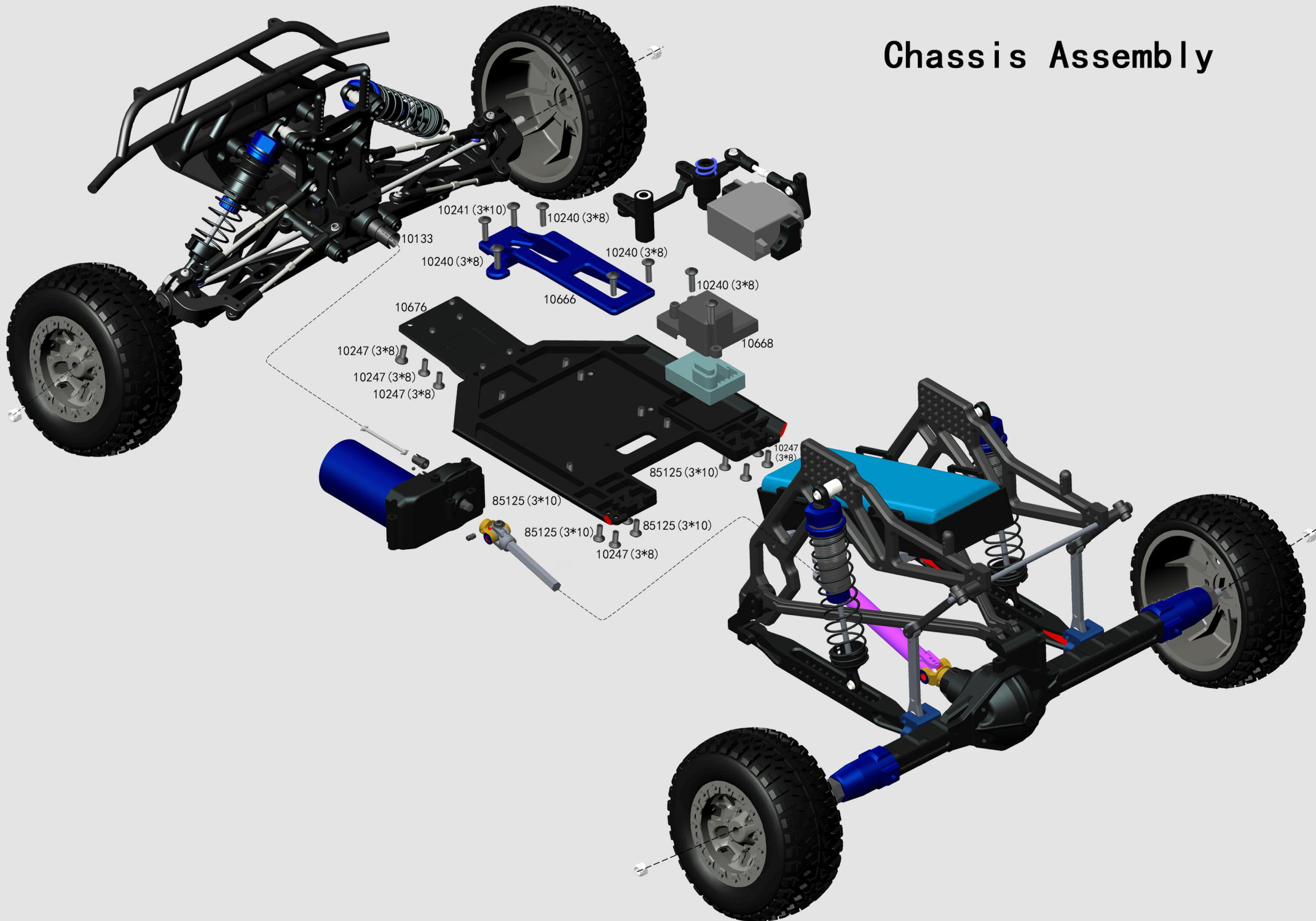


Central Transmission

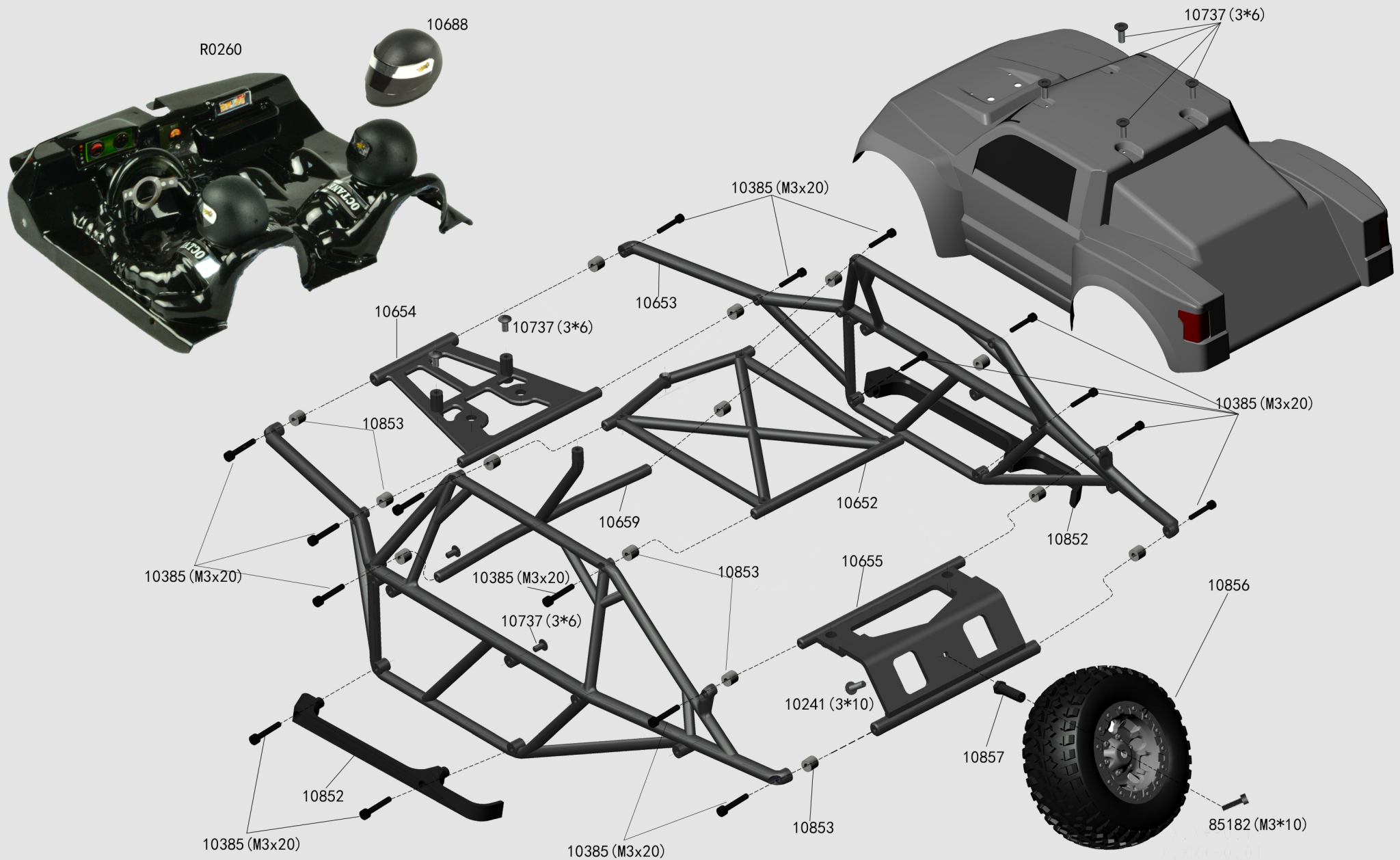
Rear Assembly



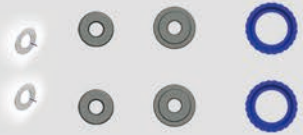
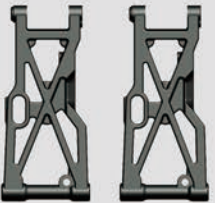
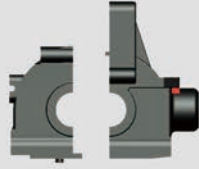
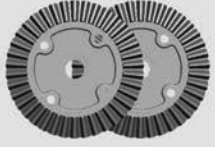
Chassis Assembly



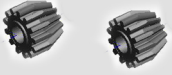
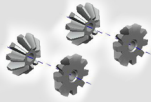
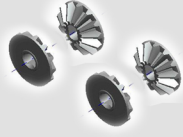
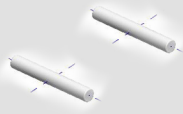
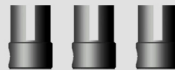
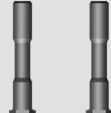
Roll Cage Body



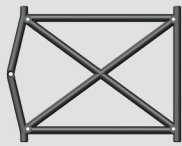
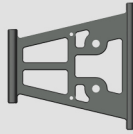
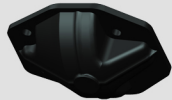
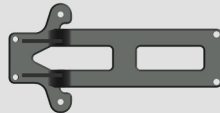
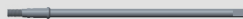
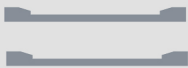
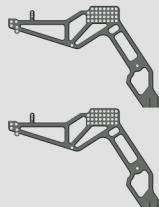
Part List

10101 - Front Shock Tower 1pc 	10051-Front Shocks 2pc 	10043 - Rear Shock Tower 2pc (Al) 	10859-Front Shock Spring 2pc 
10664-Rear Shock Spring 2pc 	10105-Front Shock Shaft & Piston Set 2sets 	10692-Rear Shock Shaft & Piston Set 2sets 	10107-Front Shock Body 2pc 
10111-Shock Lower holder & Adjust Ring 2sets 	10693-Rear Shock body 2pc (Al) 	10109-Shock Upper Cap 2sets 	10110-Shock Lower Caps 2sets 
10112-Front Lower Susp. Arm 2pc 	10114-Steering Knuckle Arm 1set 	10115-Uprights 2pc 	10116-Front CVD 2pc 
10120-Front Susp. Holders 2pc 	10362-Front bumper Set 1set 	10123-Gearbox Housing Set 2pcs 	RH5526-Diff 16T Gear Washer 6pcs 
10124-Diff. Drive Gear w/pin 2sets 	10003-Front Diff Gearbox Set 1set 	10125-Diff Case 2pcs 	10126-Diff Drive Spur Gear 2pcs 

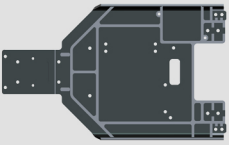
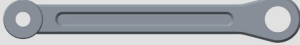
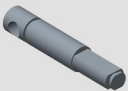
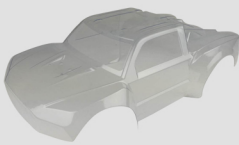
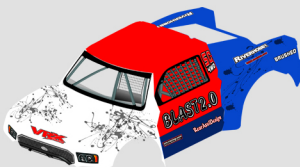
Part List

10127-Diff Drive Gear 2pcs 	10128-Diff Bevel Gear S. 4pcs 	10129-Diff Bevel Gear B. 4pcs 	10130-Diff Pin 2pcs 
10131-Washer 6pcs 	10132-Diff Drive Cup 4pcs 	10133-Center Coupler 3pcs 	10860-Body Post 1pcs 
10135-Servo Saver (GP) 1set 	10136-Servo Saver Post 2pcs 	10137-Steering Ackerman 	10141-Front Upper Susp. Arm 2sets 
10143-Steering Arm 2sets 	10144-Servo Linkage 1pc 	10145-Wheel Hub 4pcs 	10146-Antenna Pipe Set 2sets 
10147-Servo Saver (EP) 1set 	10152-Metal Bushing 15*10*4 6pc 	10153-Metal Bushing 8*5*2.5 6pc 	10695-Servo Horns 
10696-Servo Post 2sets 	10201-Pinion Gear 17T (EP) 1pc 	85034-Body Clip (Medium Size) 6pcs 	85029-Body Clip (Small Size) 6pcs 

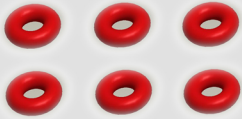
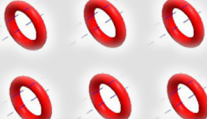
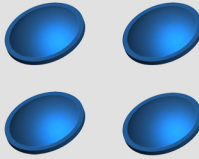
Part List

10652 Roll cage Top Frame 	10653 Roll cage side Frame 2pcs 	10654 Roll cage Front 1pc 	10655 Roll cage rear plate 1pc 
10656 Rearlink holder 	10657 Rear Central CVD rear half 	10857 Spare wheel support 	10659 Roll cage window frame 1pc 
10660 Rearaxle housing 	10661 Rear axle cover 	10662 Axle adaptor 2pcs 	10663 Rear holder for rear shock support rod 2pcs 
85284 Battery case 	10665 Rear link set 2pcs 	10666 Upper plate 	10667 Front central drive shaft 1pc 
85286 Velco Tape 2pcs 			
10668 RX cover 	10669 Rear drive Shaft short 1pc 	10670 Rear drive Shaft long 1pc 	10671 Front holder for Rear shock support rod 2pcs 
10672 Sway bar 	10673 Battery case holder 2pcs 	10674 Main frame 2pcs 	10675 Rear shocks lower Support Rod 2pcs 

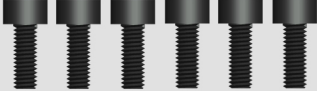
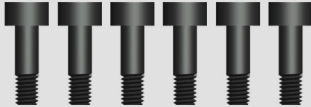
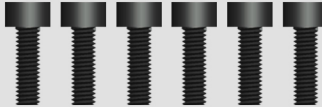
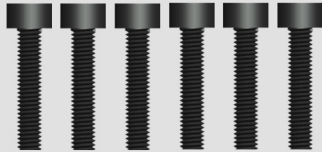
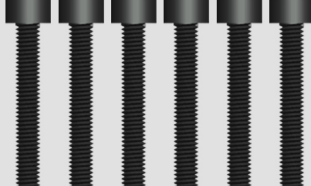
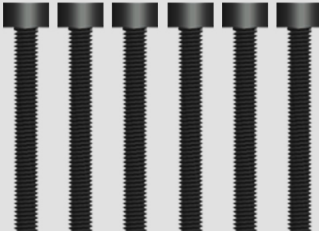
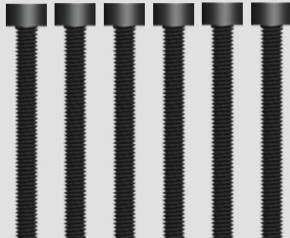
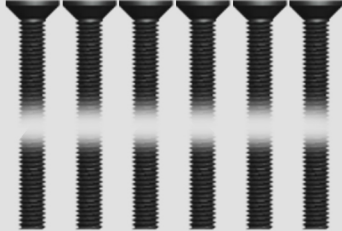
Part List

10676 - Chassis plate 	10677 - Sway bar pull rod upper 	10678 - Sway bar pull rod lower 	10679 - Main gear 62T 1pc 
10680 - Central drive shaft 	10681 - Motor mount (For 17T) 1PC 	10682 - Central transmission cover upper 	10683 - Central transmission cover lower 
10684 - Motor mount (For 23T) 1PC 	10685 - Rear central CVD front half 	10688 - Driver helmet 2pcs 	10690 - Rear diff shaft 1pc 
10691 - Ball bearing (11*5*4mm) 6pc 	10697 - Washer (8*5*0.2mm) 6pc 	10700 - Ring Self Tapping Screw 2.5*3 4pc 	R0260 - Driver Blister set w/decal 
10852 - Body supporting bar 1set 	10853 - Roll cage spacer 14pcs 	10854 - Rim 2pcs 	10855 - Tyres & foam 2sets 
10856 - Preassembled Tyres 2sets 	R0253 - clear body 	R0254 - Printed body (Blue) 	R0255 - Printed body (Black) 

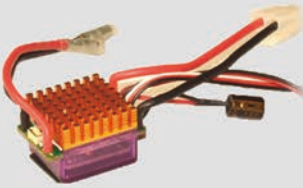
Part List

10215-Servo Link Ball End 6pcs 	10216-Steering Linkage Ball End 6pcs 	10220-Ball A 6pcs 	10221-Ball B 6pcs 
10222-Ball C 6pcs 	10224-Shock O-ring(Lower) 6pcs 	10225-Diff O-ring Seal 6pcs 	10226-Shock seal cover 4pcs 
10228-Pin ϕ 2*10 6pcs 	10230-Hinge Pins(long & short) 2sets 	10232-Ball Bearing 15*10*4 6pcs 	10233-Ball Bearing 10*5*4 6pcs 
10234-Metal Bushing 10*5*4 6pcs 	10235-Ball Bearing 8*5*2.5 6pcs 	10236-E clip-8mm 4pc 	RH5190-E clip-4mm 6pc 
10237-E clip-2.5mm 6pc 	RH5102-Nylon Lock Nut M3 6pc 	RH5103-Nylon Lock Nut-M4 6pc 	85148-Round Head Self Tapping Hex Screw 2*6 4pcs 
10238-Round Head Self Tapping Hex Screw 2*10 6pc 	85179-Round Head Self Tapping Hex Screw 3*15 8pc 	10239-Round Head Self Tapping Hex Screw M3*6 6pc 	10240-Button Head Hex Screw M3*8 6pc 

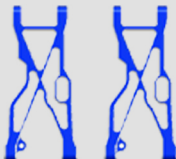
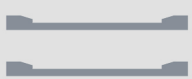
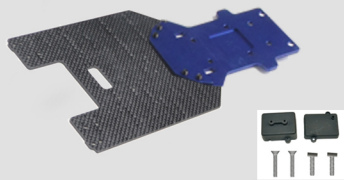
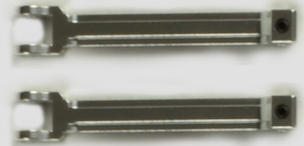
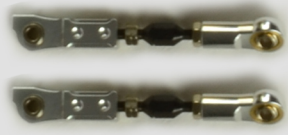
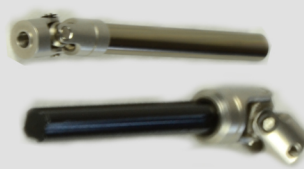
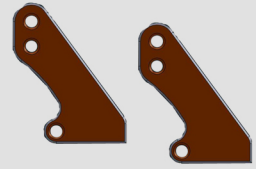
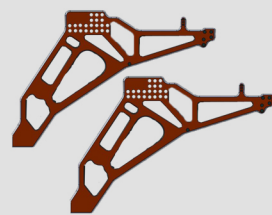
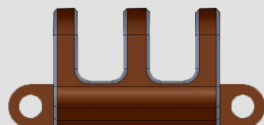
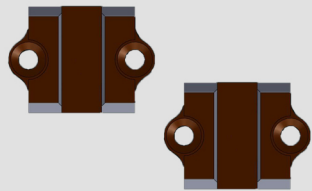
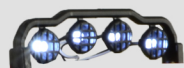
Part List

10241-Button Head Hex Screw M3*10 6pc	85184-Button Head Hex Screw M3*12 6pc	10242-Button Head Hex Screw M3*14 6pc	85144-Ring Self Tapping Screw 3*4 4pc 10256-Ring Self Tapping Screw 3*6 6pc
			
RH5116-Set Screw M3*3 6pc	RH5117-Set Screw M4*4 6pc	85133-Button Head Hex Screw M4*10 6pc	10699-Set Screw M3*10 6pc
			
RH5562-Cap Head Hex Screw M3*8 6pc	10243-Cap Head Hex Screw M3*10 6pc	85182-Cap Head Hex Screw M3*10 6pc	10244-Cap Head Hex Screw M3*14 6pc
			
85118-Cap Head Hex Screw M3*15 6pc	10245-Cap Head Hex Screw M3*18 6pc	85185-Cap Head Hex Screw M3*25 6pc	10246-Cap Head Hex Screw M3*28 6p
			
10698-Flat Head Hex M3*6 6pc	10247-Flat Head Hex M3*8 6pc	85125-Flat Head Hex Screw M3*10 8p	10248-Flat Head Hex Screw M3*12 6p
			
10249-Flat Head Hex Screw M3*14 6p	85127-Flat Head Hex Screw M3*18 3p	10250-Flat Head Hex Screw M3*20 6p	10251-Flat Head Hex Screw M3*36 6p
			

Part List

H0050 - 400A ESC 1pc 	H0028 - 3650 300KV Motor 1pc 	H0029 - 550 Brushed Motor 1pc 	H0030 - Ni-MH 7.2V 1800mAh 1pc H0031 - Ni-MH 7.2V 3000mAh 1pc 
H0011 - 3kg/cm Servo 1pc 	85274 - Li-Po 3250mAh 7.4V 1pc 	10253 - 1/10 Charger CE 1pc 10254 - 1/10 Charger UL 1pc 10255 - 1/10 Charger BS 1pc 	H0072 - 45A KS Brushless ESC H0082 - 60A KS Brushless ESC 
10694 - Pin ϕ 2*13 6pcs 	10323 - pinion gear 23T 1pc 	10385 - Cap Head Hex Screw M3*20 6pc 	10214 - Shock Ball End 6pcs 
10041-Rear Diff Gearbox Set 1set 			

Upgrade Part List

10902 – Front Shock Plate (Carbon) 1Set 	10907-Front Shocks (AL) 2pc 	10909 – Front Lower Susp. Arm (AL) 2pc 	10911 – Steering Ackerman (AL) 1pc 
10994 – Battrey case holder (Al) 	10917 – Steering Knuckle Arm (AL) 2Set 	10918 – Wheel Hub (AL) 4pc 	85265 – Heatsink 1pc 
10923 – Alum Steering Arm 2pc 	10975 – Alum Motor mount (For 17T) 1pc 	10976-AL Motor mount (For 23T) 1pc 	10977-Chassis plate (Al) 10992-Chassis plate (carbon) 1pc 
10924 – Alum Knuckle Arm 2pc 			
10978-Swarbar pull rod upper (Al) 2pc 	10979-Swarbar pull rod lower (Al) 2pc 	10980-Rear Central CVD Front half (steel) 1pc 	10981-Front holder for Rear Shock Support rod (Al) 2pcs 
10982-Rear Shocks lower Support rod (Al) 	10983-Main frame (Al) 2pcs 	10984-Rear link holder (Al) 	10985-AL rear link set 2pcs 
10986-Axle adaptor (Al) 	10987-Upper plate (Al) 	10988-Rear Axle housing (Al) 	10989-Alum rear Axle 
10991-Rear holder for rear shock support rod (Al) 	H0096-Headlight (plastic frame) 	H0097-Headlight (Alum frame) 	