

Notes:

- ⇒ The radio controlled racing models is not toy. It is suited for experienced operators. Read and understand the instructions carefully before operating or assembling your racing model.
- ⇒ Specifications are subject to change without prior notice, and actual received model may vary from the images and/or descriptions in this manual.

INSTRUCTION MANUAL

1/5th Scale 4WD Gasoline Power On-road
Car and Rally Car



A . ON-ROAD CAR

Introducing your model...

This manual contains all the basic instructions for assembly, operation, and maintenance. Please read and understand all instructions thoroughly before operating and building your model.

Features:(On-road Car)

- 1.High quality main/diff.gears .
- 2.Shaft center drive system.solid universal joint cups.high performance full ball bearing.
- 3.Fiberglass brake disc provides quick brake response under high temperature.
- 4.The thick and durable tires keep close to the floor completely.
- 5.High quality front Bumper against accident impacts.
- 6.Powerful engine system with air filter.full aluminm polished exhaust pipe.
- 7.Enhanced suspension arm system,high performance shock absorber.
- 8.High quality unleaded Gasoline+Stroke oil mixture to start your engine.
- 9.Fold stylish and solid full anodized aluminum 6061 chassis.(for Rally Car only)

Important Safety Precautions

- Replace the shield body after adjustment and before driving.
- Do not abruptly alter the speed during running.
- Carefully check whether all screws or nuts are loose or not after running.
- Handle the fuel ONLY OUTDOORS!
- Never measure the fuel close to open fire or any source of heat.
- Never run the vehicle without a clean air filter installed.
- Do not run the model lean and do not allow the engine to overheat.
- Use the special fuel for models.
- Store fuel in cool,dry and dark places away from Children's reach!
- Tighten the cap of the fuel bottle when not used.
- Never throw the empty fuel bottle into fire! Otherwise,it may explode.
- Do not put your finger or any object into the rotating or moving parts.
- To avoid the danger of burns, do not touch the engine and muffler immediately after they have stopped running.

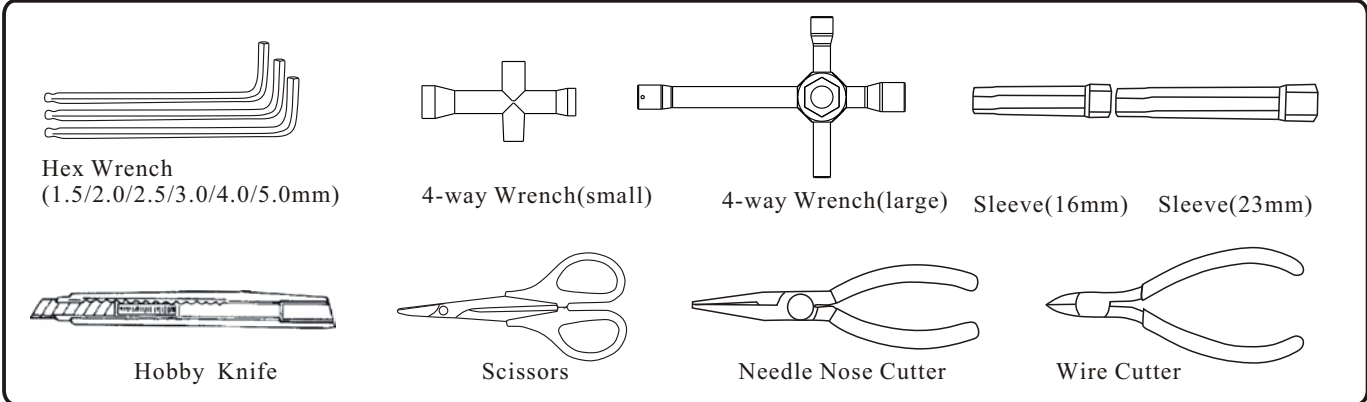
Before Starting Your Vehicle

- Verify that all retainers are well fastened (screws, nuts, bolts and clips)
- Verify proper function of steering, drive-line and engine/braking control.
- Lubricate appropriately all bearings, bushings and maintain proper shock performance.
- Operate radio system with fully charged batteries; perform radio frequency/range check.
- Do not operate vehicle on public roads, or obtain adequate authorisation to permit usage.

Specifications:(On-road Car)

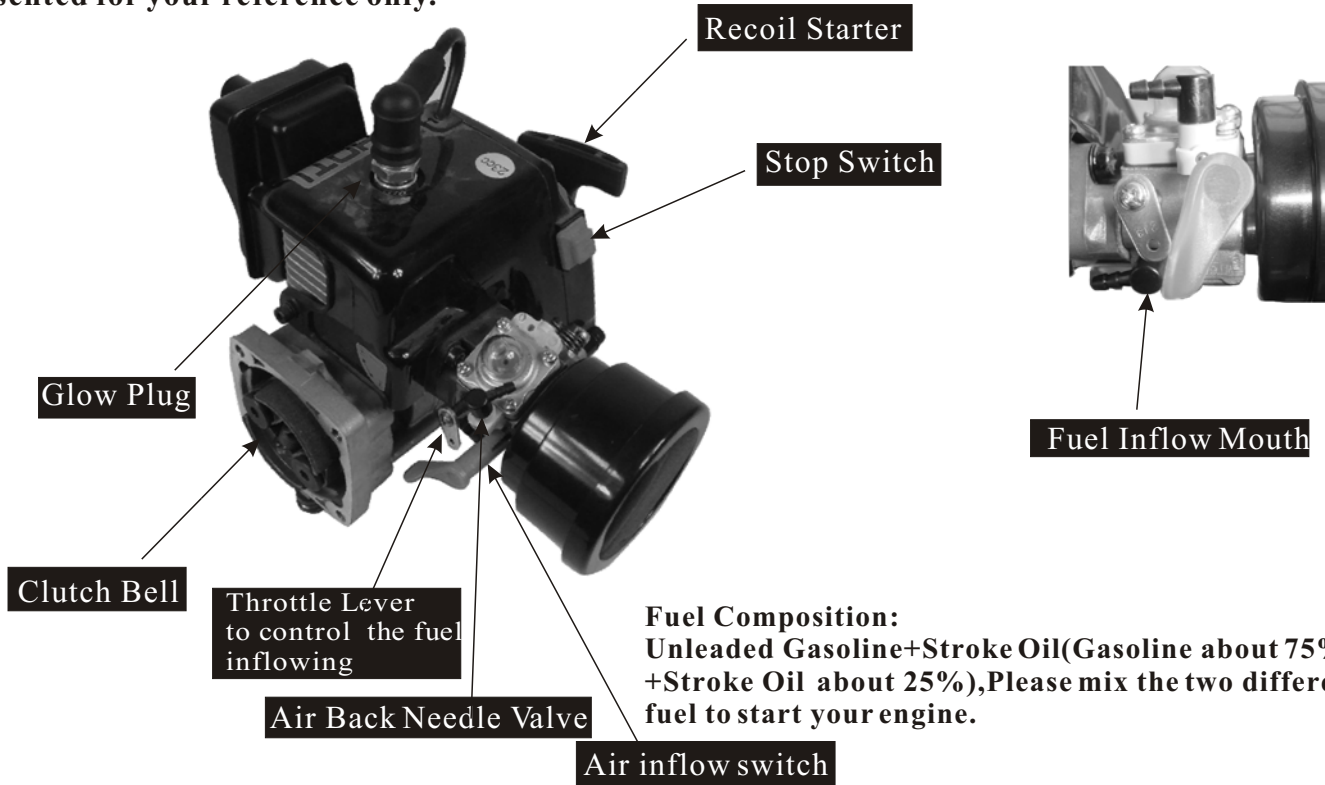
- 1.Engine:23/28CC PRO
- 2.Steering Servo:20KG-cm Throttle Servo:9KG-cm
- 3.Length:905mm
- 4.Width:400mm
- 5.Height:265mm
- 6.Weight:11.3KG
- 7.Wheelbase:520mm
- 8.Drive way:Shaft drive
- 9.Chassis:4mm thickness. Aluminum6061T6
Ground Clearance:15mm
- 10.Wheel Diameter/Width:120mm/65mm
Wheel color:black&white;chrome plated
- 11.Fuel Tank Capacity:700CC
- 12.Drive System:3WD
- 13.Diffirential System:CNC process metal gear
- 14.Brake Syetem:double brake disc turn round sytem
- 15.Gear Ratio:1:7.8
- 16.Receiver battery/charger:1500/2000mAh,Ni-MH battery
- 17.Body:anti-explode,high resistance
- 18.Camber Angel:0-10℃
- 19.R/C Control System:FM /AM LCD Transmitter
- 20.out of Control protection:standard protection equip

Tools For Assembling Your Model



Engine View

Note:The engine is sticked with warning labels, please pay special attention on it . The image is presented for your reference only.



Use Transmitter to control your Vehicle...

1/5th scale Gasoline powered RTR model Transmitter has 2 styles, LCD Transmitter(FM)&Multifunctional Transmitter(AM).you can choose it.Below is the LCD Transmitter(FM) function description.



#TR80127
LCD 2-Channel(FM)



#TR80126
Multifunctional
2-Channel(AM)

Battery Precautions:

- 1.In orderto keep continuebetter performance under operations, we stronglyrecommend you to use the 1.5V alkaline batteries instead ofthe 1.2 V chargeable batteries.eight AAbattery should be inserted on the bottom of thetransmitter.
- 2.The batteries may leak in the event thatthey are installed with wrongpolarities.
- 3.Do notuse batteries of different types.
- 4.Do notleave the batteries if not in use for long periods.

LCD Transmitter(FM)Function Description:



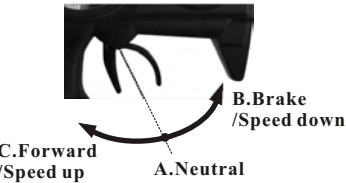
The function switches on the transmitter:

- 1.Antenna
- 2.Switch key
- 3.Four function Key:
Mode Channel
Increase Decrease
- 4.Throttle Trigger
- 5.T1/T2/T3/T4:
Shortcut key

- 6.Power switch on(push up)
Power switch off(push down)
- 7.Working Indicator
- 8.Steering Wheel

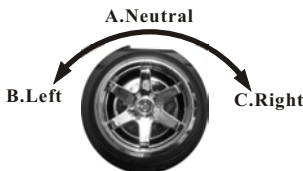
Caution!
Make sure antenna is properly inserted and screwed in the transmitter.Antenna should be fully extended

Throttle Trigger

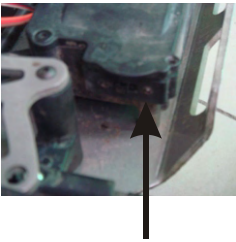


- 1.Push the trigger forwards to allow the vehicle to speed down to brake.
- 2.Pull the trigger backwards to allow the vehicle to go forward and speed up.

Steering Wheel



Turn the steering wheel to the left or right to let the vehicle turn left or right.



Switch on the transmitter,then the receier to start the engine;turn off the receiver then the transmitter to stop running engine.

The 1/5th transmitter has two different setting way.Push up the power button,will enter into common function set.Press the mode fuction key while pushing up the power button,up the power button,will enter into the system function set.

Common Function Setting:

- 1.The throttle trigger and steering wheel must be in netural position before reading the figure.
- 2.EPA:
 - a.EPA-ST : front wheel steering set
 - b.EPA-TH:brake or forwarding operation set.
- 3.SPD:
 - a.SPD-TN: steering speed set
 - b.SPD-RN:return to netural position set
- 4.EXP:(sensibility adjustable range:-100%~+100%;-100% is low-grade,+100% is superior.)
 - a.EXP-ST:steering sensibility set.
 - b.EXP-FW:forward sensibility set
 - c.EXP-BK:brake sensibility set.

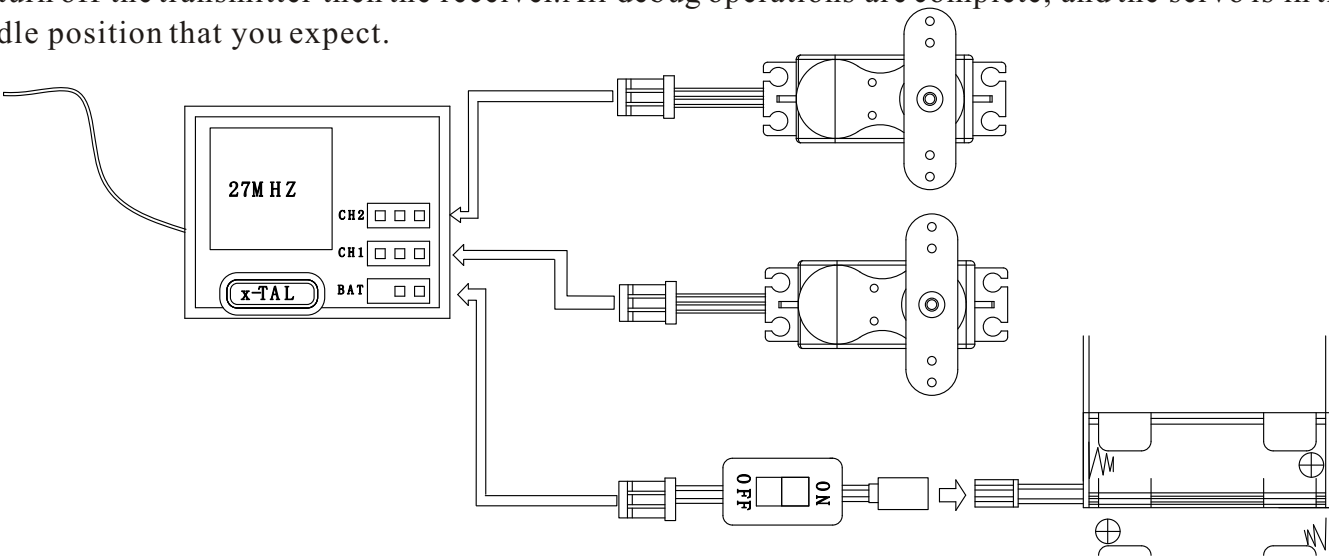
- 5.ABS:(anti-slip brake set)
 - a.ABS-PT:brake return speed set.
 - b.ABS-CY:perform cycle set
 - c. ABS-DL:extend brake time set
 - d.ABS-MD:off or on set
- 6.ACC:
 - a.ACC-FW:add forward speed set
 - b.ACC-BW:add brake speed set
- 7.BMX: brake function mix set
- 8.TRM:(idle position adjust)
 - a.TRM-ST:steering trim set
 - b.TRM-TH:forward trim set
- 9.D/R
 - a.D/R steering rate set
 - b. D/R-ST:steering angle set
- 10.ATL
 - a.brake intensity set
 - b.ATL-BK:set the brake intensity solely(adjusting brake servo angel)
- 11.SBT:(two channel idle position set)
 - a.SBT-ST:steering trim set
 - b.SBT-TH:forward trim set
- 12.REV:
 - a.REV-ST:steering reverse set(off/on)
 - b.REV-TH:forward reverse set(off/on)
- 13.MODE SEL:can save 10 models control data.

System Function Setting:

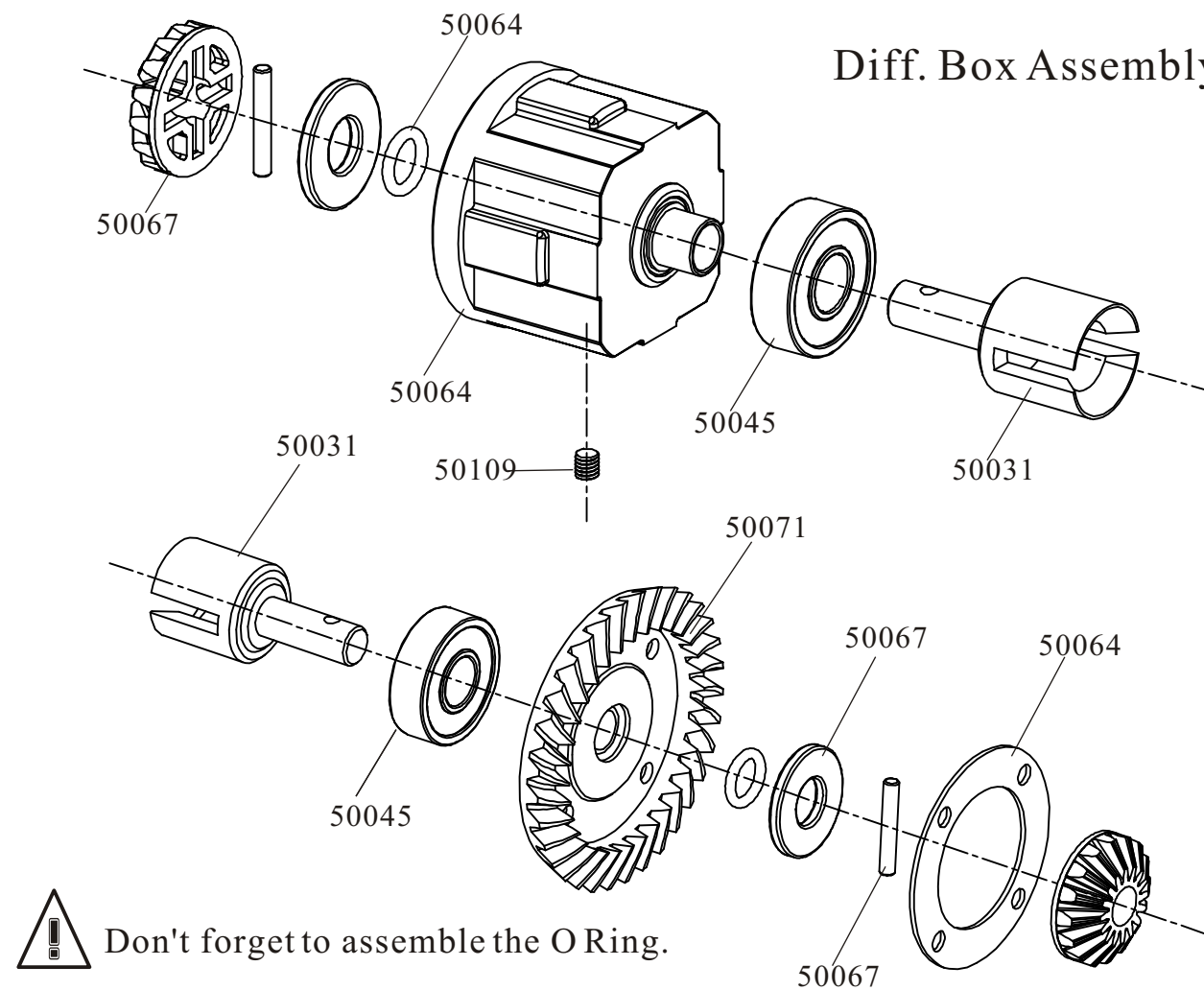
- 1.Copy mode control data
- 2.Mode control data initialization
- 3.Each mode control data name set.
- 4.Signal output set(PPM mode only)
- 5.FNC-SW2:switch key
- 6.FNC-DT:
 - a.ST:steering trim adjust
 - b.TH:throttle trim adjust
 - c.DR:steering control rate DR-ST adjust
 - d.AT:ATL-BK adjust
 - e.E1:steering EXP-ST adjust
 - f.BK:BMX-RT adjust
- 7.LED-MD:LED bright adjustment.press the increase or decrease to change light brightness.

2-Channel Radio Transmitting System

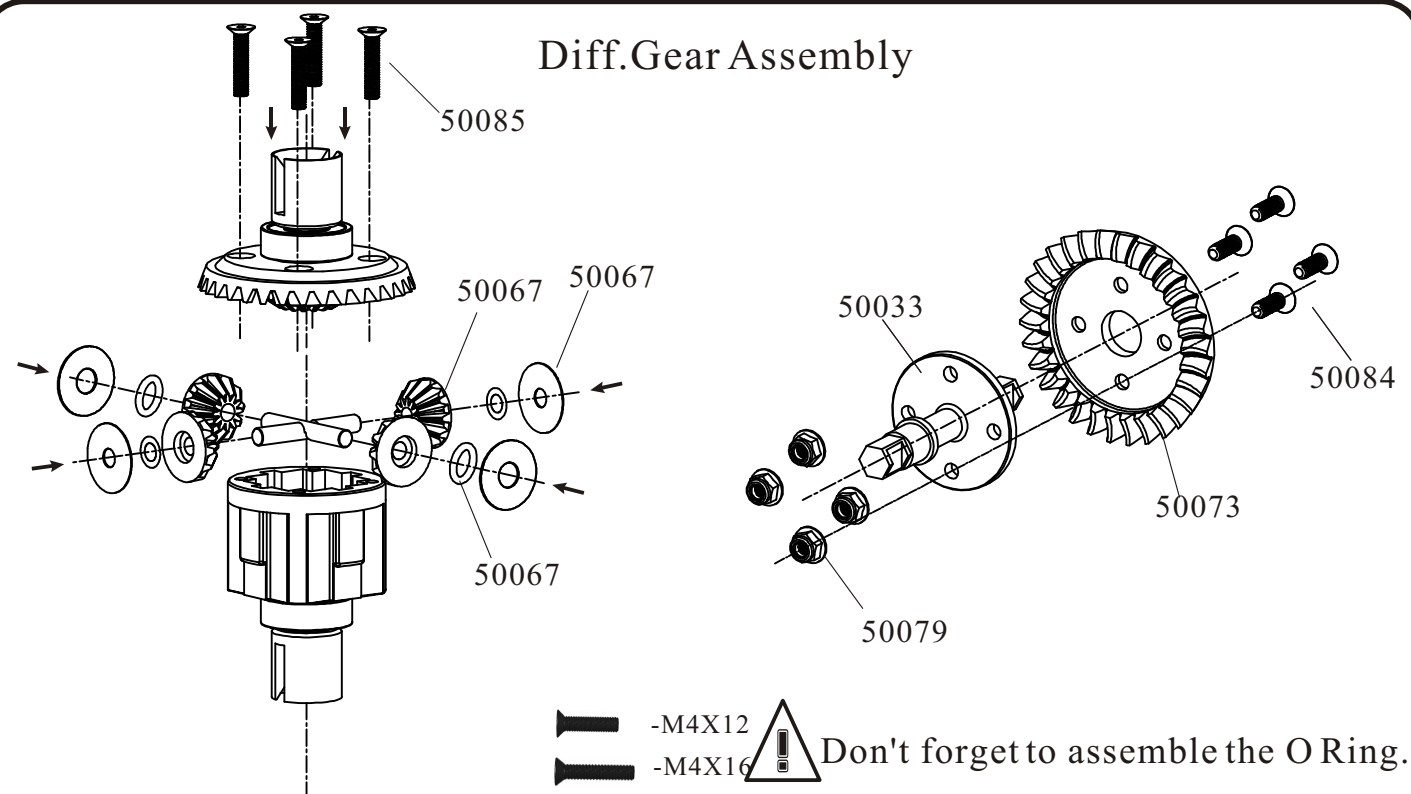
Please read the instructions for the radio system carefully before running your car. The servo is required to be set at Center position before starting assembly. To set the servo at the Idle (Neutral) position switch on the transmitter and receiver. Allow the servo trim arm at Center position, and turn off the transmitter then the receiver.All debug operations are complete, and the servo is in the Middle position that you expect.



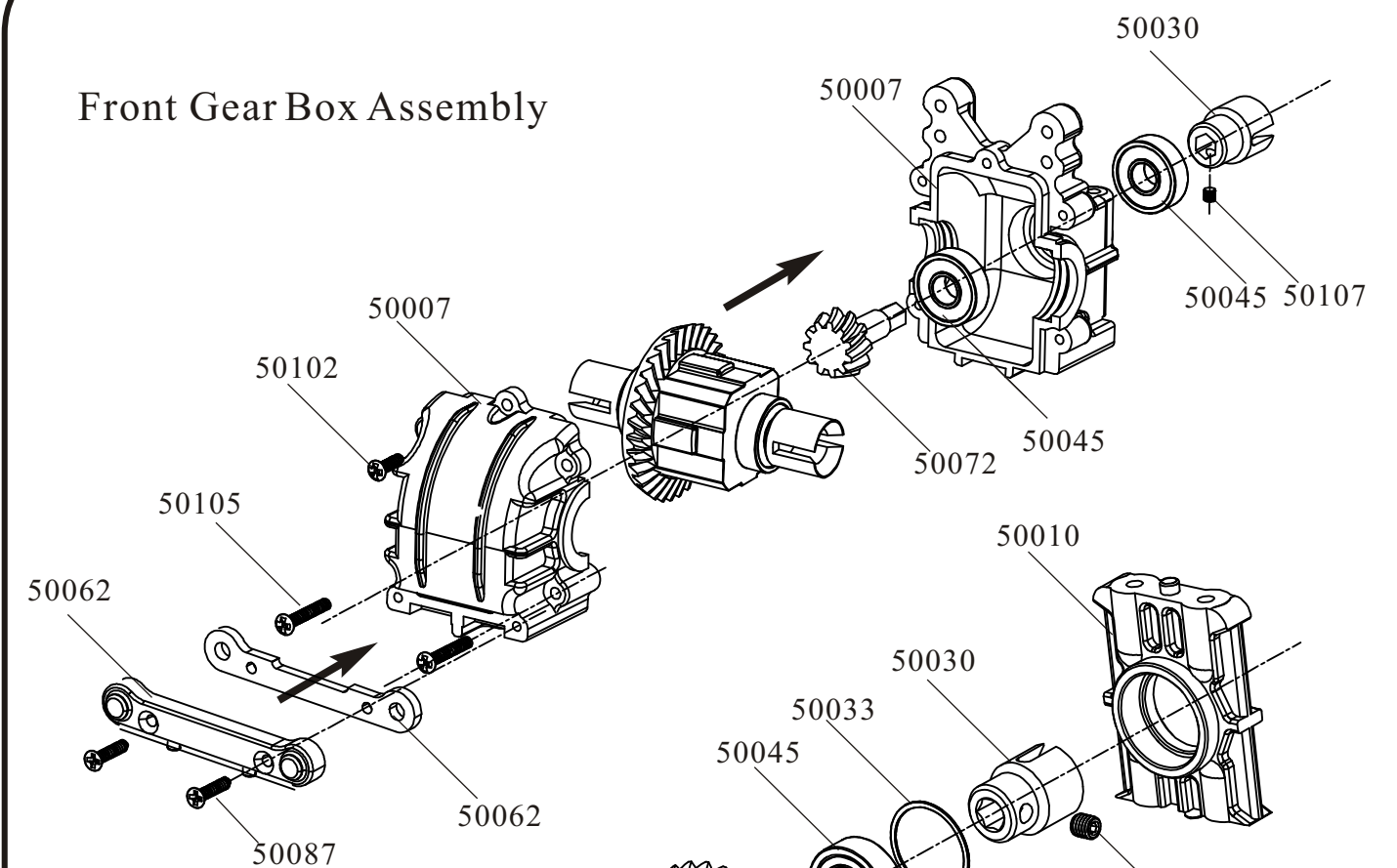
Diff. Box Assembly



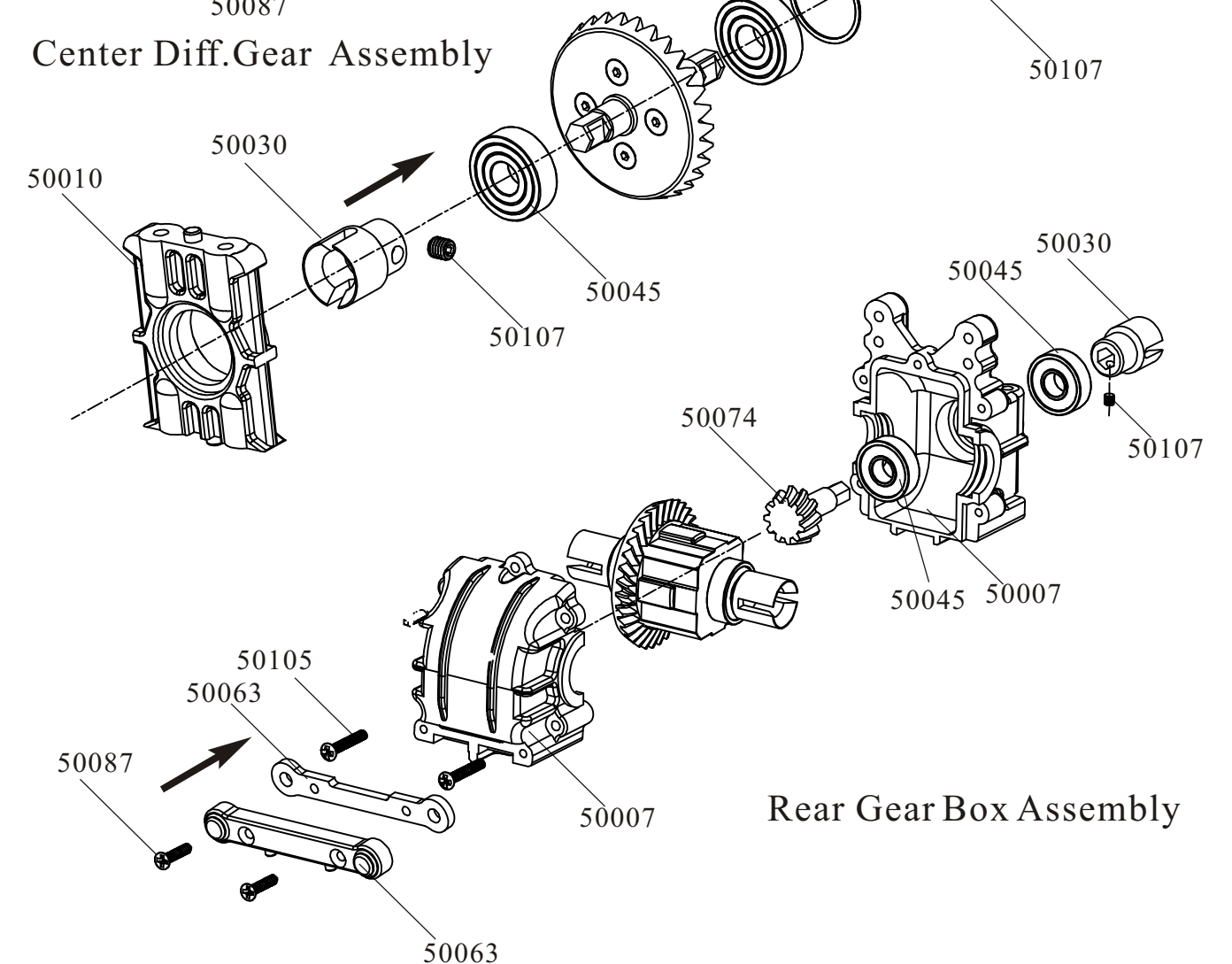
Diff.Gear Assembly



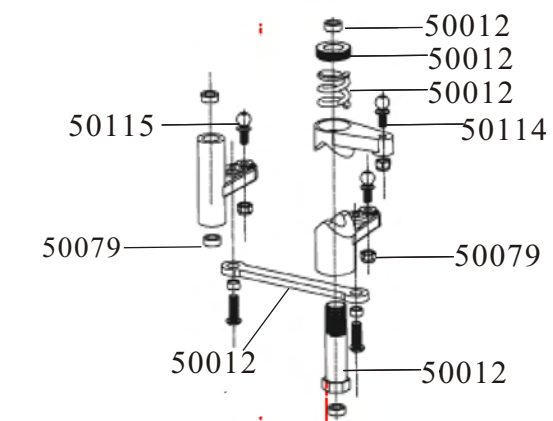
Front Gear Box Assembly



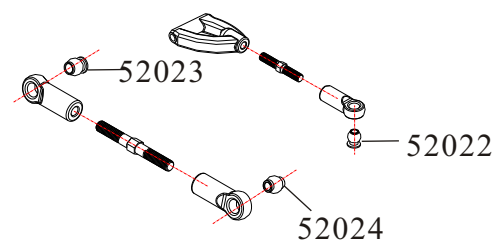
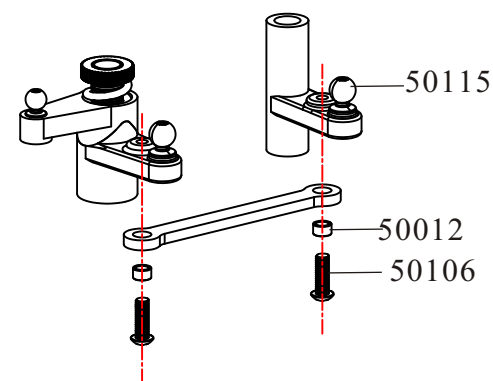
Center Diff.Gear Assembly



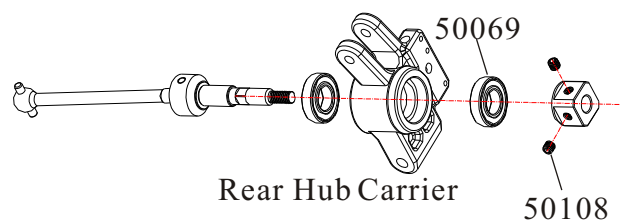
Rear Gear Box Assembly



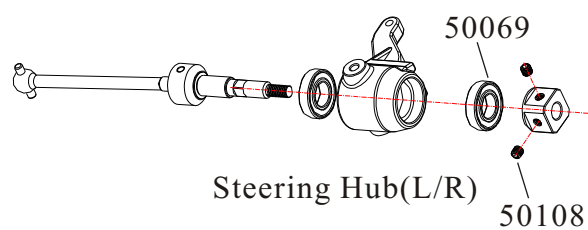
Steering Complete Assembly



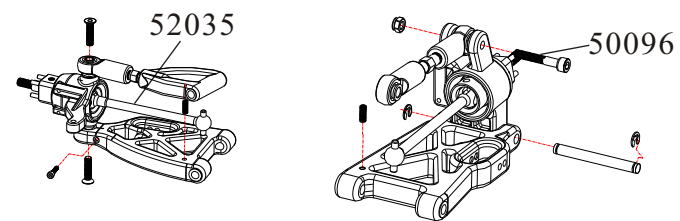
Steering Link Assembly



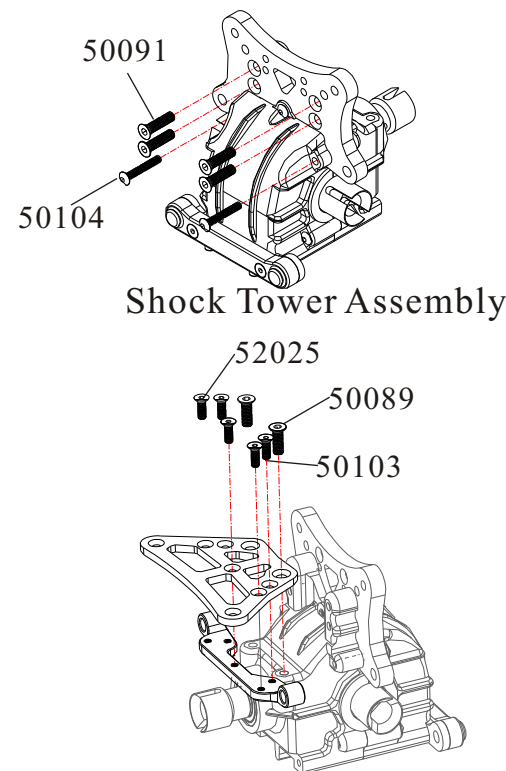
Rear Hub Carrier



Steering Hub(L/R)

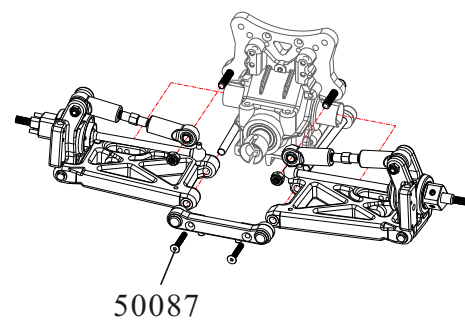


Supspension Arm Assembly

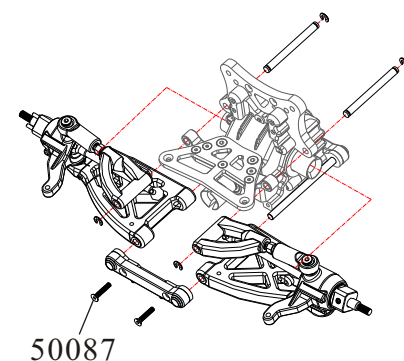


Shock Tower Assembly

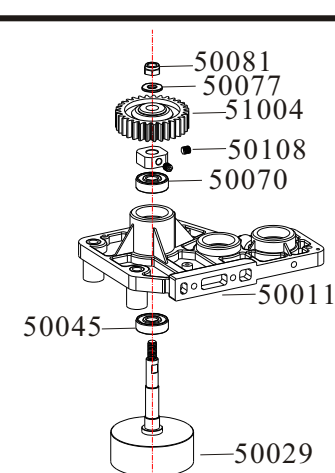
Upper Top Plate Assembly



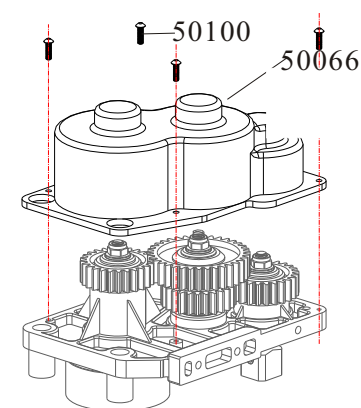
Rear Suspension Arm Assembly



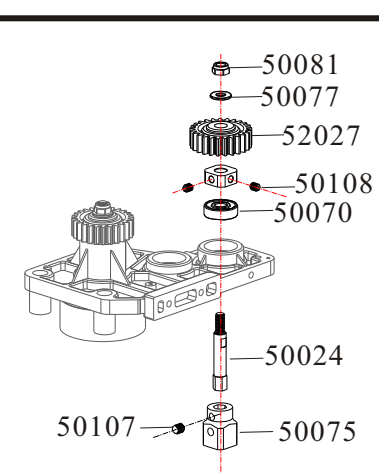
Front Suspension Arm Assembly



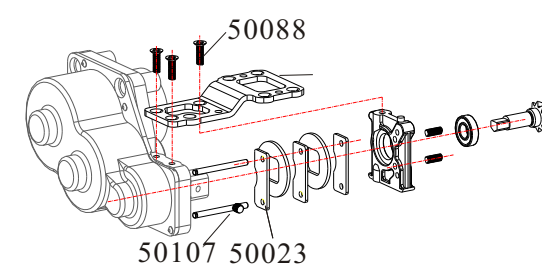
Gear Mount Assembly



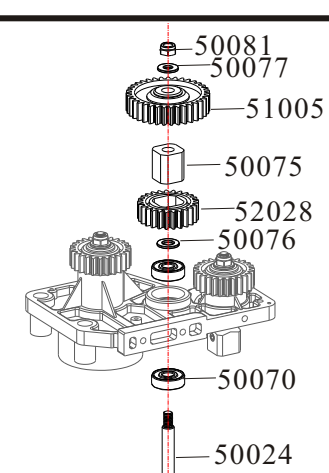
Diff. Gear Cover Assembly



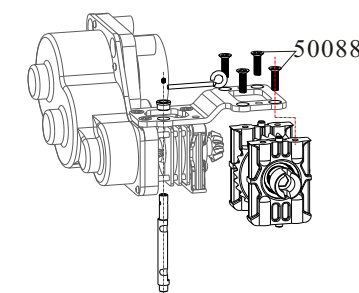
Second Way Gear Assembly



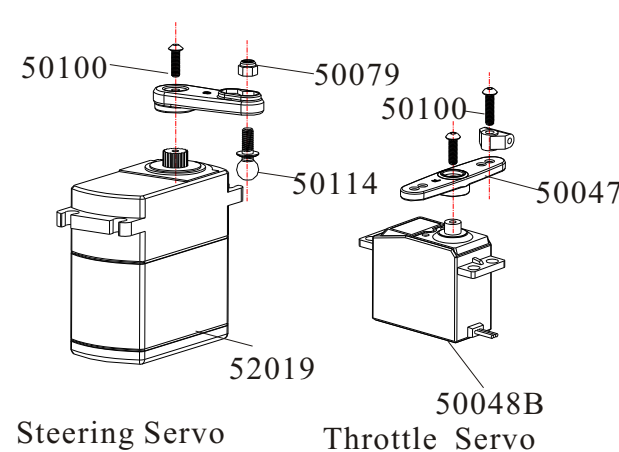
Brake Disc Assembly



First Way Gear Assembly

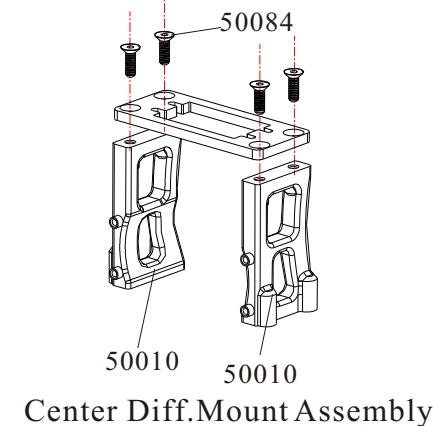


Radio Tray Assembly

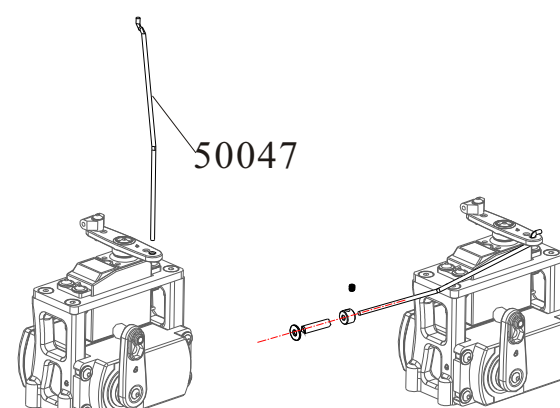


Steering Servo

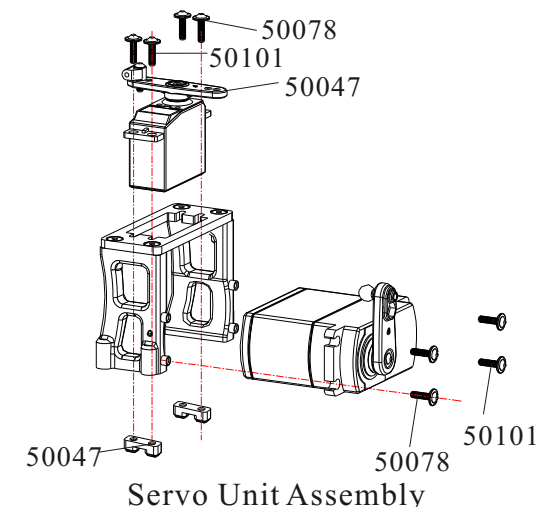
Throttle Servo



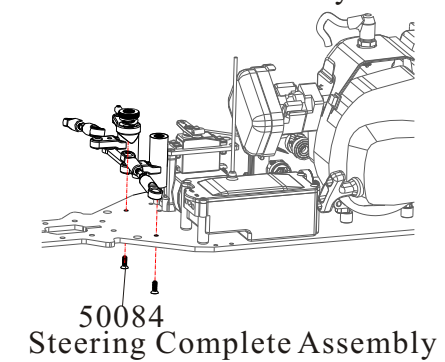
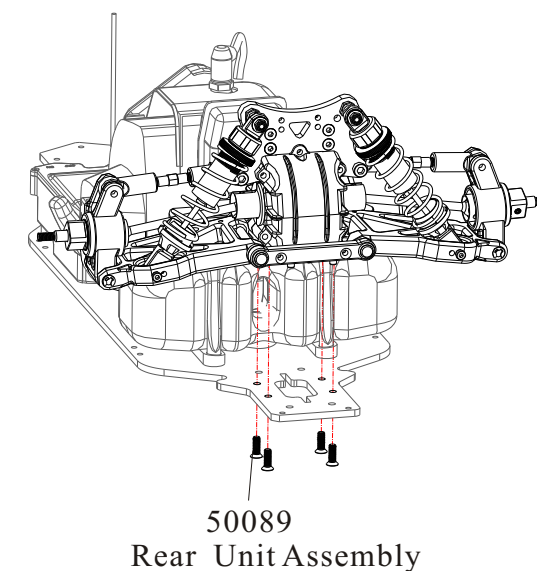
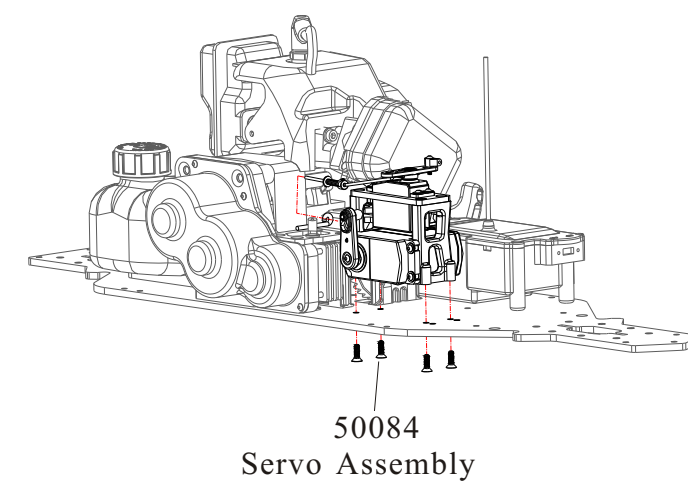
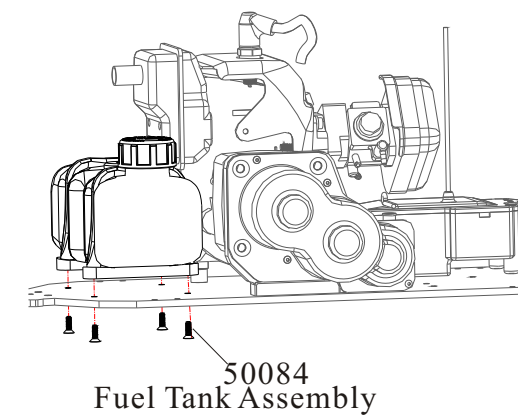
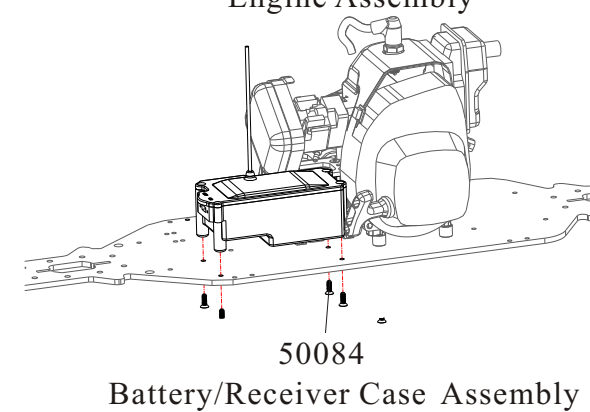
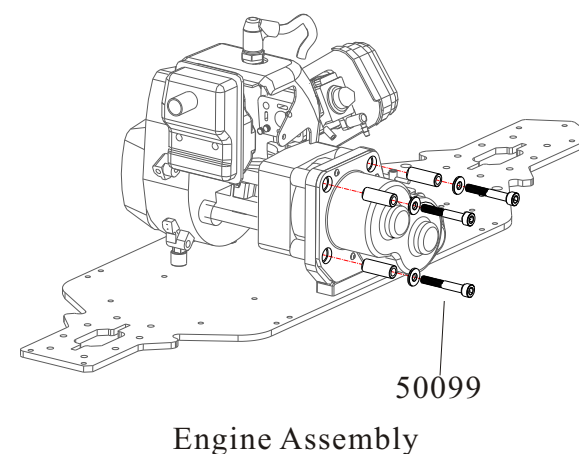
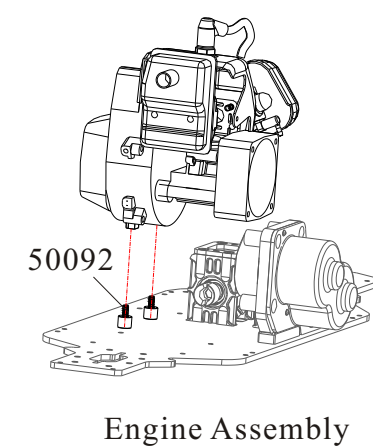
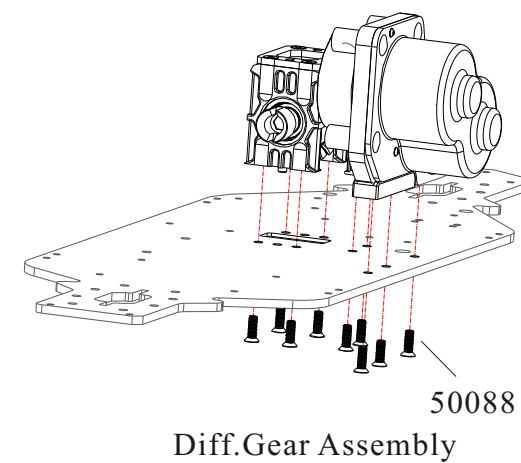
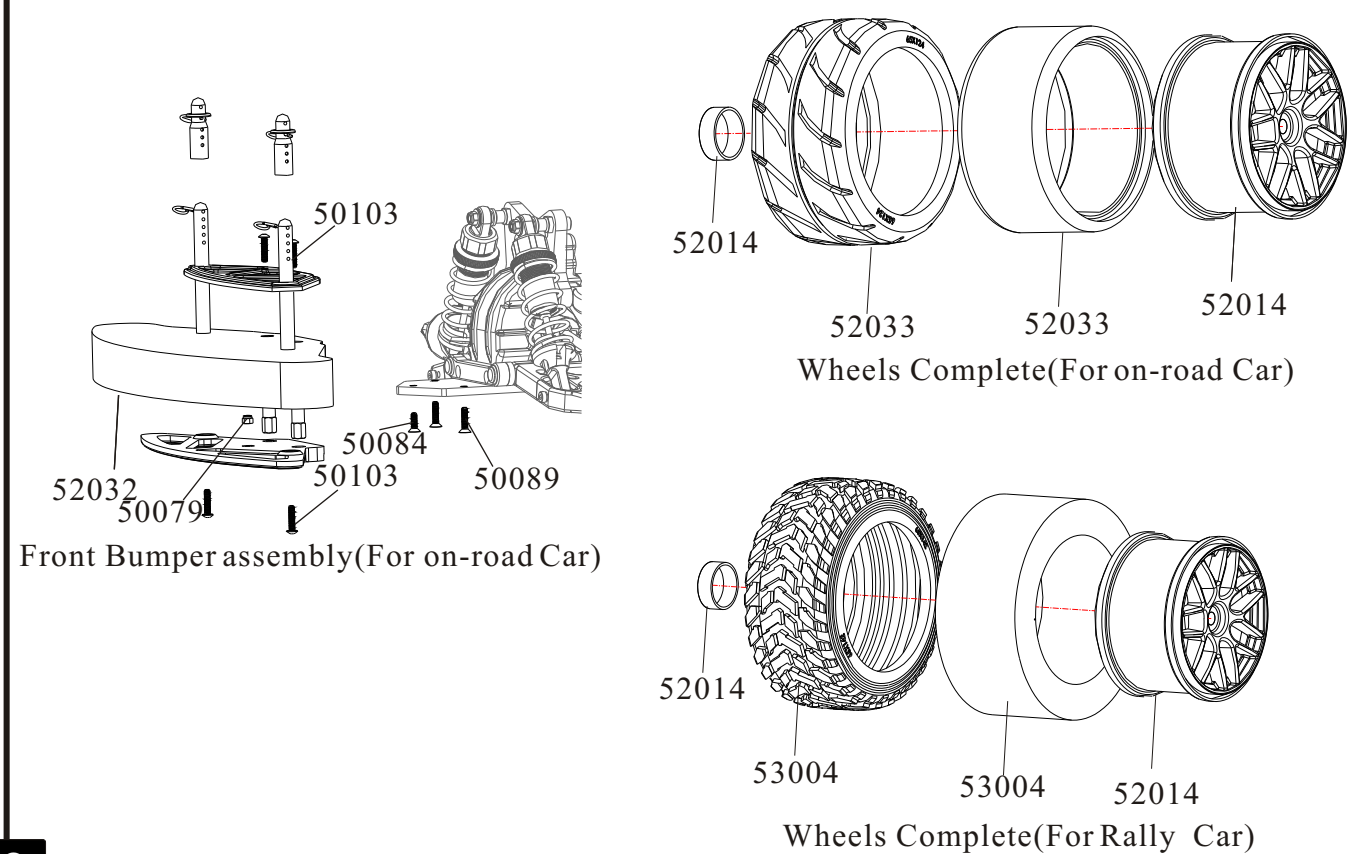
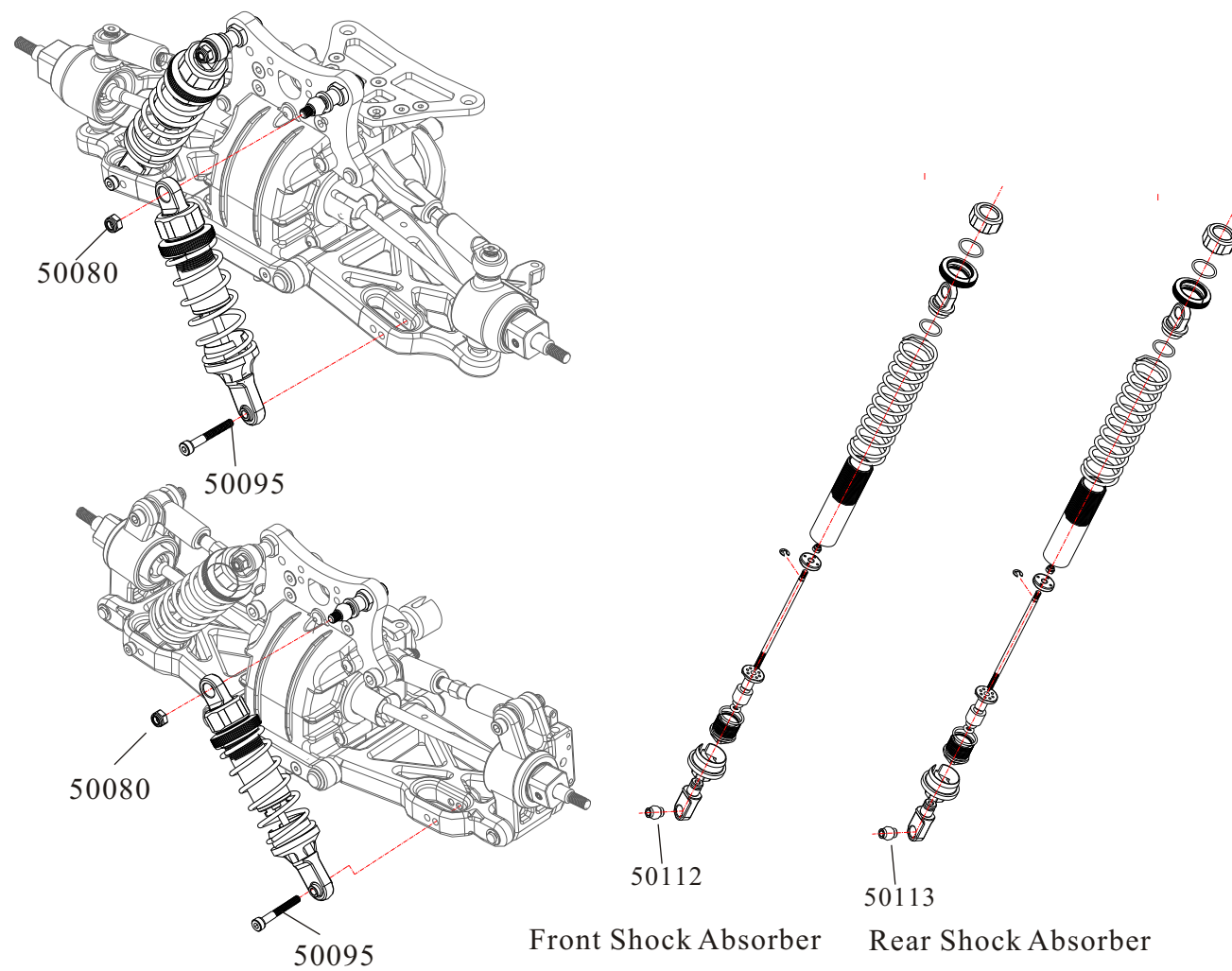
Center Diff.Mount Assembly

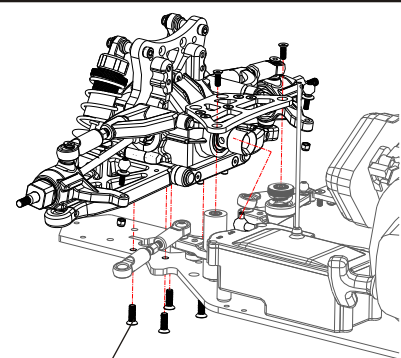


Throttle Screw Assembly

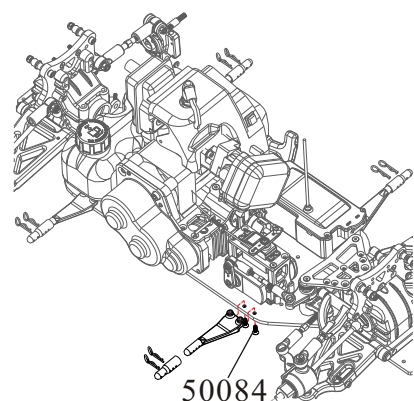


Servo Unit Assembly

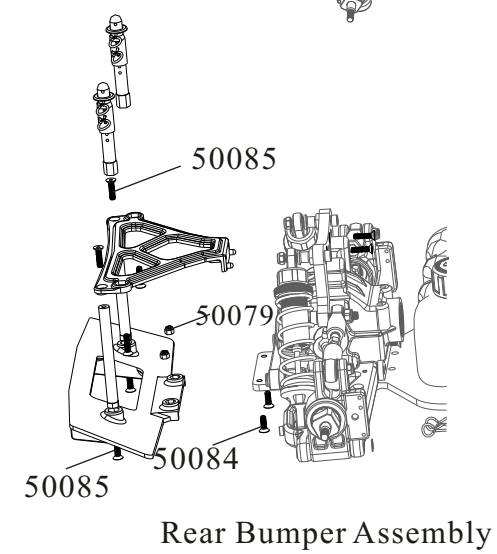
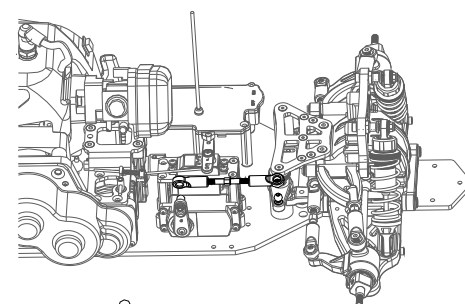




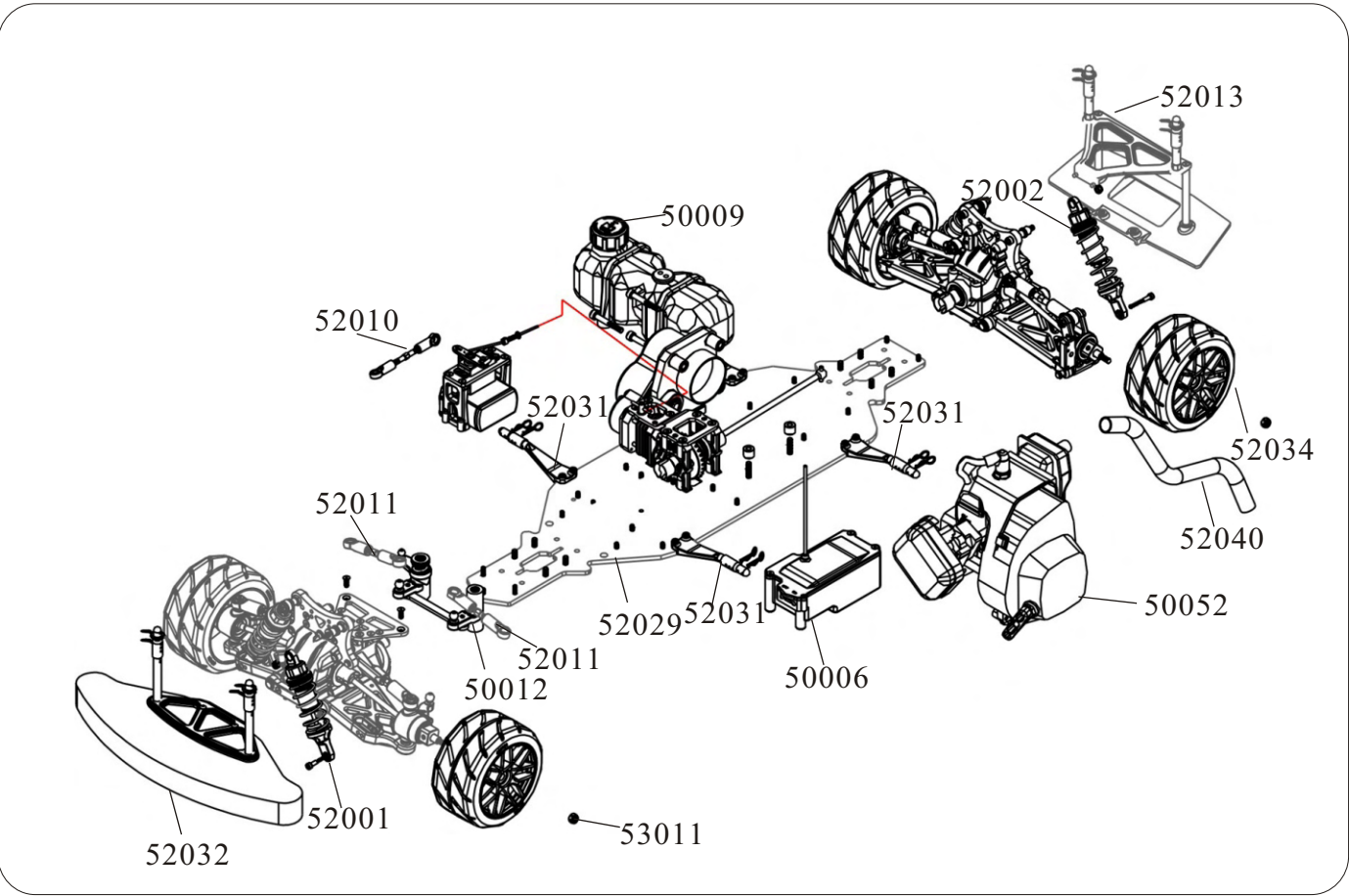
50089
Front Unit Assembly



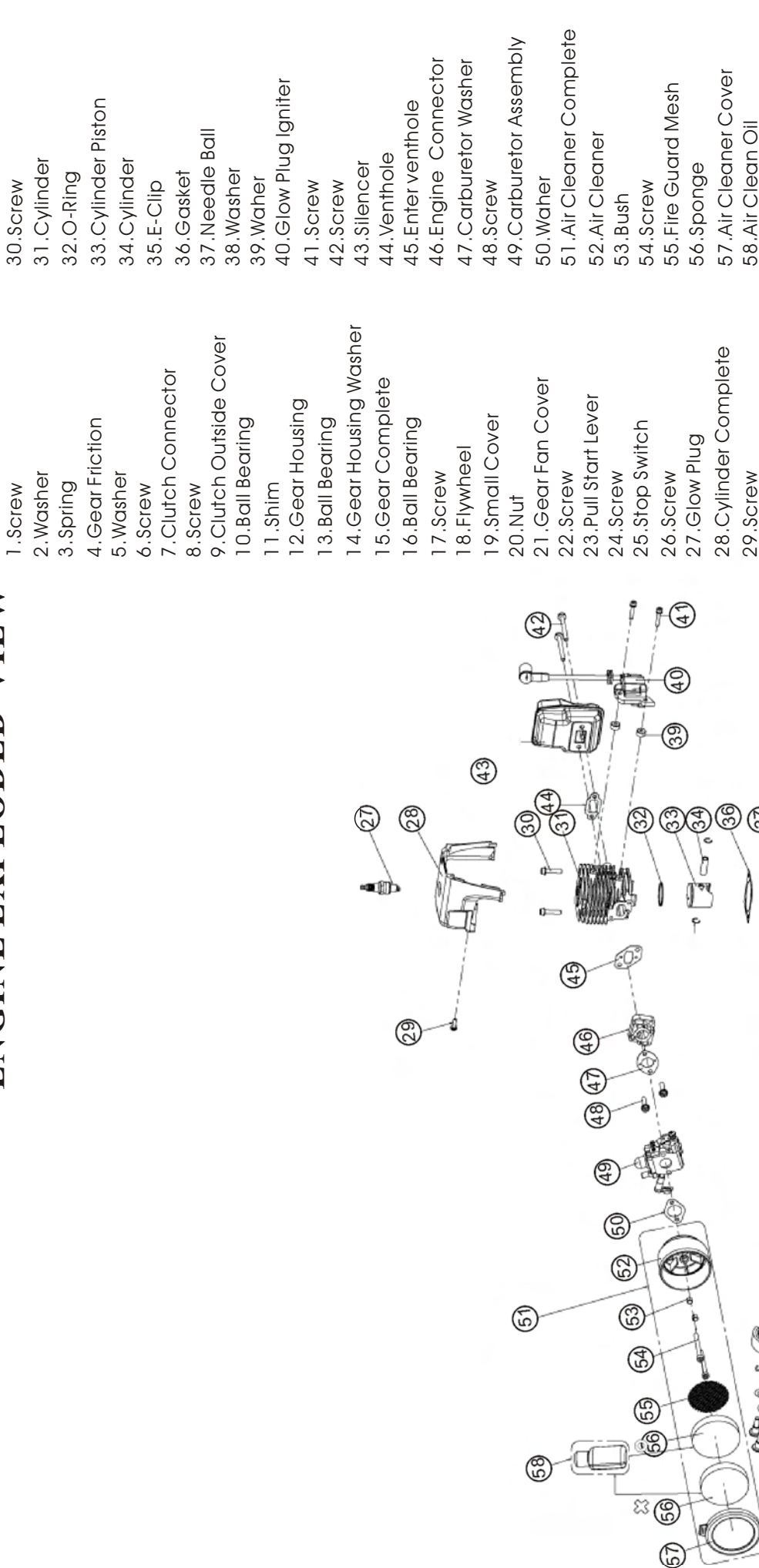
50084
Body Secure Plate Assembly



50085
50079
50084
Rear Bumper Assembly


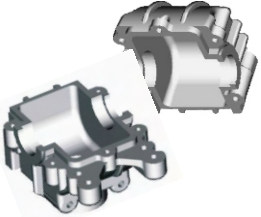
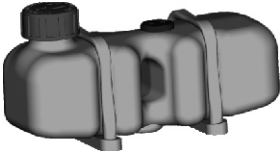
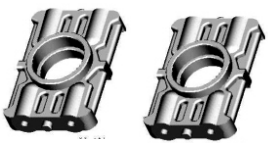
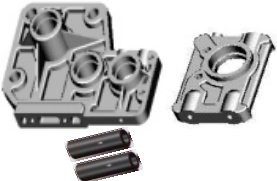
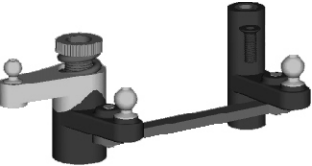
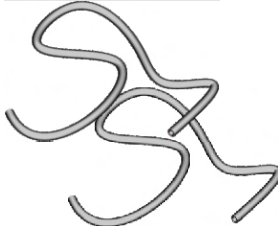
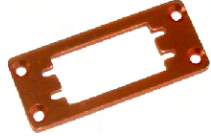
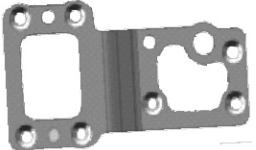
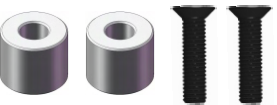


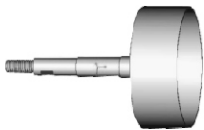


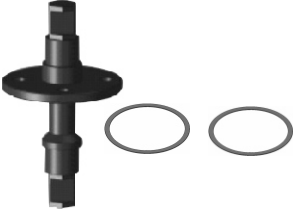







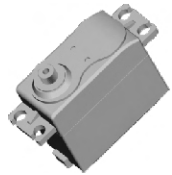


ENGINE EXPLODED VIEW





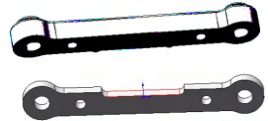
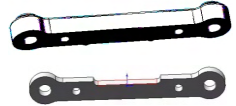


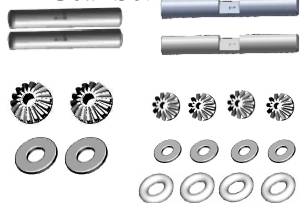






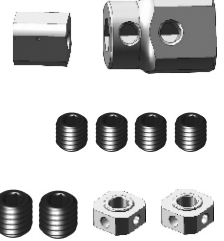
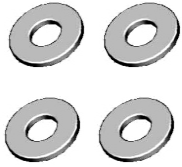
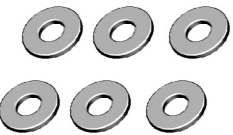
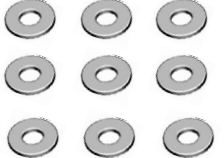

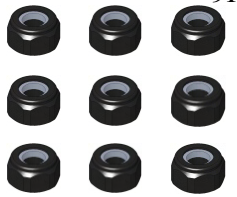





The actual received Engine may vary from the images.

Spare Parts for On-road Car

50006-Battery/Receiver Case 	50007-Gear Box 	50009-Fuel Tank(700CC) 	50010-Center Diff.Mount 2P 
50011-Centre Diff. Mount Set 	50012-Servo Saver/Steering Complete 	50018-Fuel Pipes 2P 	50019-Servo Top Mount 
50020-Radio Tray 	50022-Deck Spacer + Countersunk Screw 	50023-Brake Discs+Pads +Pins 	50024-Diff.First Way Shaft +Second Way Shaft 
50029-Clutch Bell Bush 	50030-Centre Dogbone Joint Cup 2P 	50031-Diff. Joint Cups 2P 	50033-CenterDiff. Shaft +Washers 
50035-Centre Diff.Rear Dogbone(Long) 170MM 	50037-Brake Cam Set 	50038-Front/Rear Lower Arm Pins 6*94MM 	50042-Shock Absorber E- Clip ϕ 4.0 8P 
50045-Ball Bearing(26*10*8) 6P 	50046-Servo Mount(L/R) 	50047-Servo horn and Throttle Linkage Set 	50048B- Throttle Servo(9kg) 





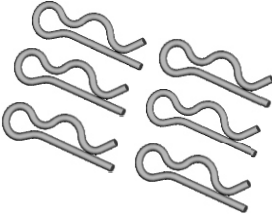


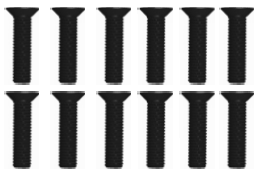
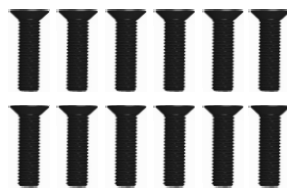
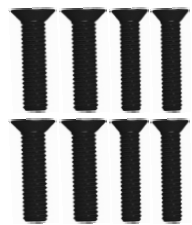
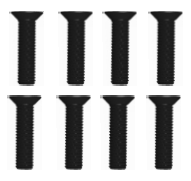
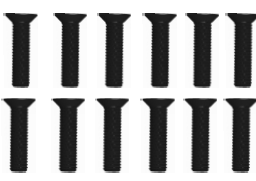

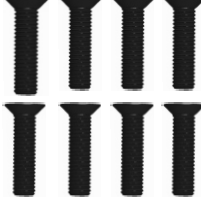


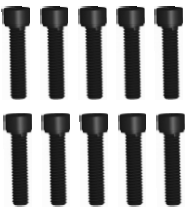





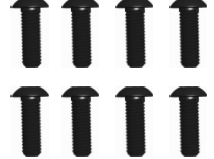

Spare Parts for On-road Car

50050-Battery Charger (250 MA) 	50051-Chargeable Battery Pack(6V 1500MA) 	50052-Engine (23 CC PRO) 	50053-Glow Plug 
50062-Front Sus.Arm Holder 	50063-Rear Sus.Arm Holder 	50064-Front/Rear Diff.Shell Set 	50066-Diff. Gear Cover 
50067-Front/Rear Diff. Gear Set 	50069-Ball Bearing(22*10*6) 8P 	50070-Ball Bearing(22*8*7) 6P 	50071-Front /Rear Crown Gear(33T) 
50072-Front/Rear Drive Pinion(11T) 	50073-Diff.Crown Gear (30T) 	50074-Diff.Drive Pinion (10T) 	50075-Centre Diff. Gear Set 
50076-First Way Gear Washer ϕ 8*15*1.5MM 	50077-Second Way Gear Washer ϕ 6*12*1.5MM 6P 	50078-Servo Washers ϕ 3*8*0.8MM 9P 	50079-Nuts(M4) 8P 
50080-Nuts(M5) 9P 	50081-Nuts(M6) 6P 	52001-Front Shock Absorber 2P 	52002-Rear Shock Absorber 2P 



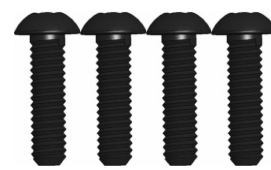









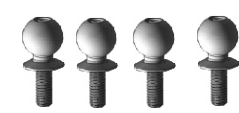
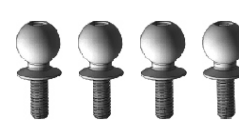



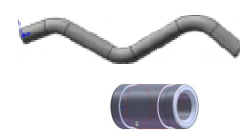




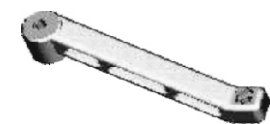
Spare Parts for On-road Car

52003-Front Upper Top Plate	52004-Front /Rear Shock Tower	52005-Rear Lower Suspension Arm 2P	52006-Front Lower Suspension Arm 2P
			
52007-Front Upper Suspension Arm 2P	52008-Steering Hub(L/R)	52009-Rear Hub Carrier 2P	52010-Servo Link
			
52011-Steering Link 2P	52012-Rear Upper Susp. Arm 2P	52013-Rear Bumper Plate Complete +Post	52014-Wheel Rim/ Wheel reinforce ring 2P
			
52015-Wheel Mount 4P	52016-Center Diff. Rear Dogbone 170 MM	52017-Wheel Driven Shaft 2P	52018-Rear Lower Susp. Arm Pin(6*55.2) 2P
			
52019-Steering Servo (20kg)	52020-Front Shock Absorber Spring 2P	52021-Rear Shock Absorber Spring 2P	52022-Front Steering Ball (φ11*φ5mm) 4P
			
52023-Rear Upper Inside Susp. Arm Ball(φ11*φ6mm) 4P	52024-Shock Absorber Lower Ball(φ11*12mm) 4P	52025-Countersunk Head Screw(4*10) 5P	52026-Column Head Screw(2.5*14) 4P
			


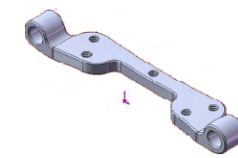
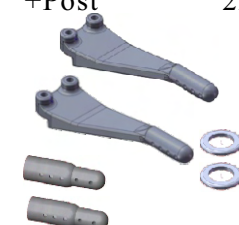




Spare Parts for On-road Car

52027-Gear(24T)	52028-Gear(26T)	51004-Gear(31T)	51005-Gear(29T)
			
81013-Body Clips 6P	02071-Receiver(FM)	50083-Countersunk Mechanical Screw(3*10) 4P	50084-Countersunk Mechanical Screw (4*12)12P
			
50085-Countersunk Mechanical Screw(4*16) 12P	50087-Countersunk Mechanical Screw(4*25) 8P	50088-Countersunk Mechanical Screw(5*12) 8P	50089-Countersunk Mechanical Screw(5*16) 12P
			
50090-Countersunk Mechanical Screw(5*18) 4P	50091-Countersunk Mechanical Screw(5*20) 8P	50092-Countersunk Mechanical Screw(5*25) 4P	50093-Column Head Hex. Self-tapping Screw(3*10) 12P
			
50094-Column Head Mechanical Screw(3*16) 10P	50095-Column Head Mechanical Screw(4*30) 4P	50096-Column Head Mechanical Screw(5*30) 4P	50097-Column Head Mechanical Screw(5*35) 6P
			
50098-Column Head Mechanical Screw(6*25) 8P	50099-Column Head Mechanical Screw(6*40) 4P	50100-Cap Head Mechanical Screw(3*10) 8P	50101-Cap Head Mechanical Screw(3*12) 12P
			

Spare Parts for On-road Car

50102-Cap Head Mechanical Screw(4*12) 8P 	50103-Cap Head Mechanical Screw(4*15) 8P 	50104-Cap Head Mechanical Screw(4*25) 4P 	50105-Cap Head Mechanical Screw(4*30) 4P 
50106-Cap Head Mechanical Screw(5*15) 10P 	52038-Column Head Screw(6*28) 4P 	50107-Hex Head Grub Screw(6*6) 8P 	50108-Hex Head Grub Screw(5*5) 8P 
50109-Hex Head Grub Screw(4*4) 8P 	50110- Hex Head Grub Screw(3*3) 8P 	50112-Front Shock Absorber BallΦ 10*10MM 4P 	50113-Rear Shock Absorber BallΦ10*11MM 4P 
50114-Servo Link Ball Φ8MM 4P 	50115-Steering Link Ball Φ10MM 4P 	50117-Servo Mount(L/R) 50118-Servo Horn  It can be used on FUTABA/SANWA/HITECH/KO Brand Steering&Throttlet Servo(for Common Part)	
52037-Countersunk Head Screw(5*22) 4P 	52039-Hex Head Grub Screws(4*10) 4P 	52040-Exhaust pipe+ Silicone Joint Tubing 	52041-Front Upper Link 2P 
52042-Rear Upper Link 2P 	52043-Steering Link B 2P 	52044-Ball Bearing(22*10*7) 6P 	50058-Front Brace 

Spare Parts for On-road Car

52029-Chassis 	52030-Front Upper Susp Arm Mount 	52031-Body Secure Plate +Post 2P 	52032-Bumper Foam +Plate Complete 
52033-Tire+Tire Sponge 2P 	52034-Wheel Complete 2P 	52035-Center Front Driven Dogbone(127mm) 	

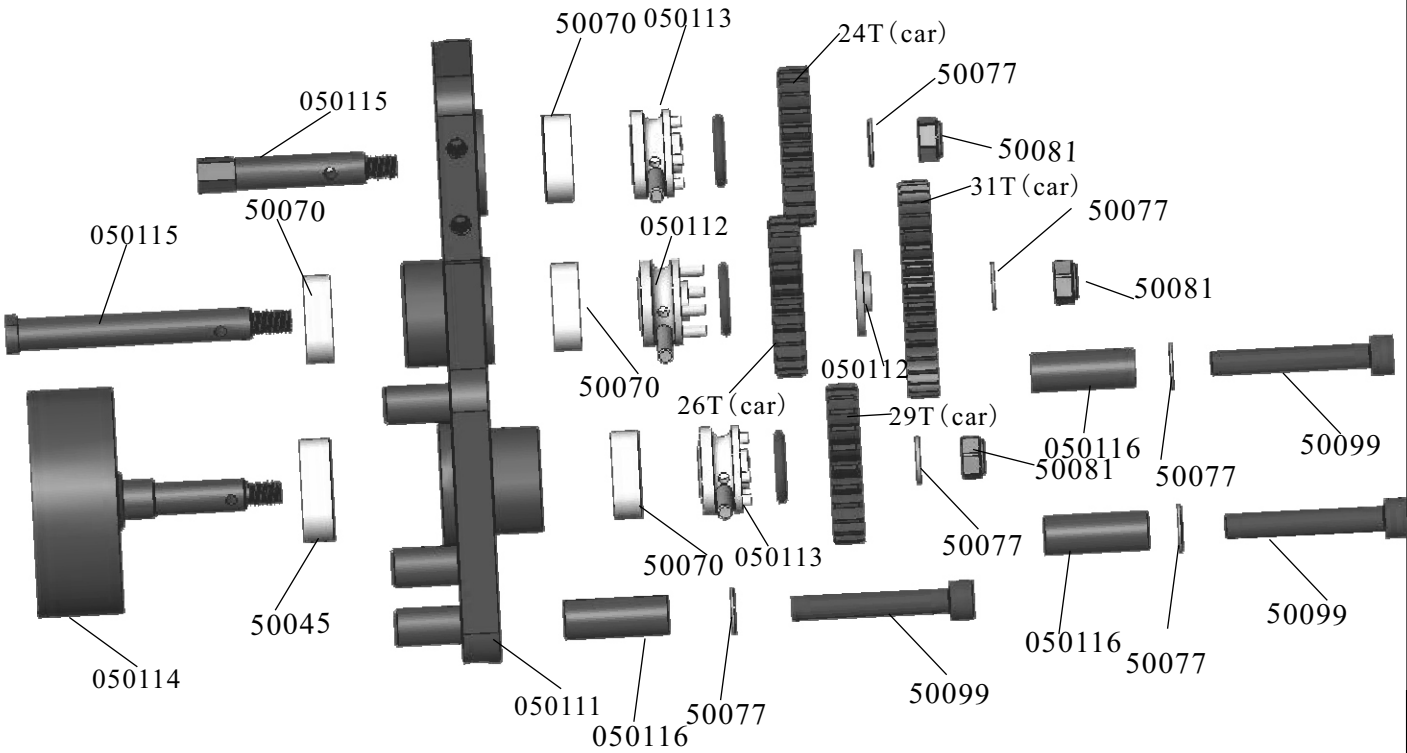
On-road Car Upgradable Optional


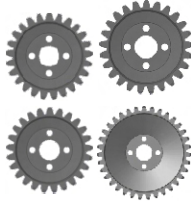
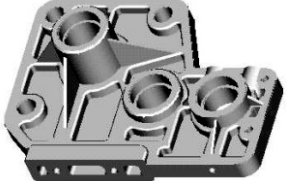
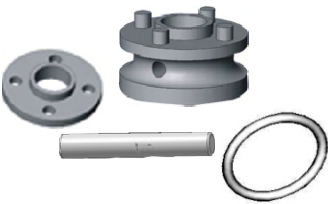
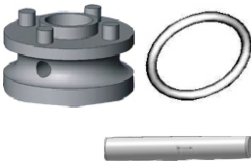
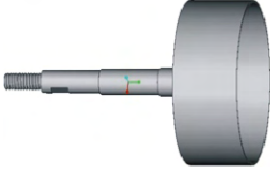

050004-Gear Mount (AL.) 	050008-Front Brace (AL.) 	050010-Futaba Servo Mount(L/R) (AL.) 	050011-Servo Mount(L/R) (AL.) 
050014-Servo Saver/Steering Complete (AL.) 	050016-Front Sus.Arm Holder(Direct hole) (AL.) 	050017-Rear Sus.Arm Holder(Inside Bevel Hole) (AL.) 	050021-Engine(28CCPRO) 
050023-Servo Horn (AL.) 	050027-Rear Sus.Arm Holder(Outside Bevel Hole) (AL.) 	050028-Air Filter 	050029-Shock Absorber Protective Head(AL.) 
050032-Fuel Tank Cover 	050033-Engine Recoil Starter 	050034-Engine Cover 	050035-Servo Top Mount (AL.) 
050036-Radio Tray(AL.) 	050040-Air Filter 	050100-Fuel Pipe Bush 	052001-Rear Lower Suspension Arm (AL.) 2P 
052002-Front Lower Suspension Arm(L/R) (AL.) 	052003-Front Upper Suspension Arm (AL.) 2P 	052004-Steering Hub(L/R) (AL.) 	052005-Rear Hub Carrier (AL.) 2P 

On-road Car Upgradable Optional

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Aluminum Centre Diff.Mount Assembly



052020-Centre Diff Alum Gear Mount Set (29T/26T/24T/31T) 	052021-Alum.Gear (24/26/29/31T) 	050111-Diff.Gear Mount 	050112-Diff.first way shaft mount 
050113-Diff.Second Shaft mount 	050114-Clutch Bell 	050115-Diff.First Way Shaft-Diff.Second Way Shaft 	50099-Column Head Mechanical Screw(6*40) 4P 