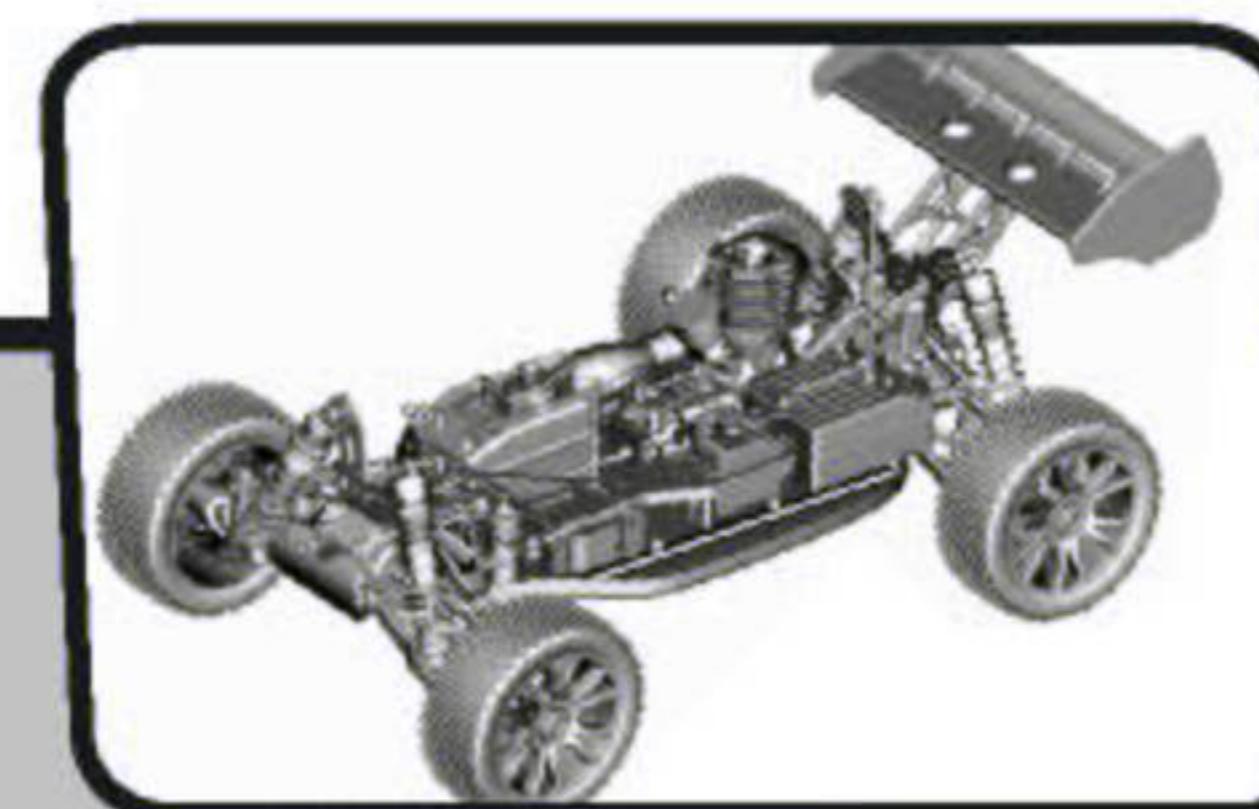
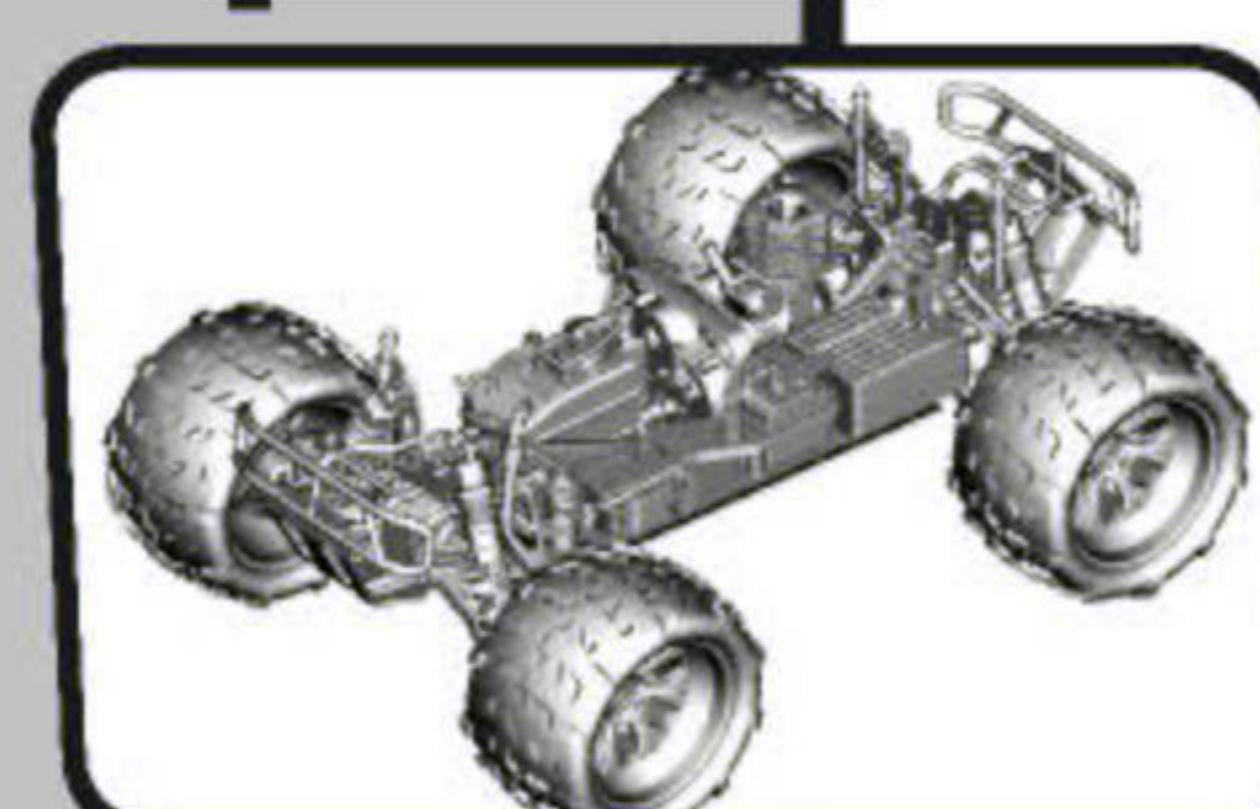


INSTRUCTION MANUAL

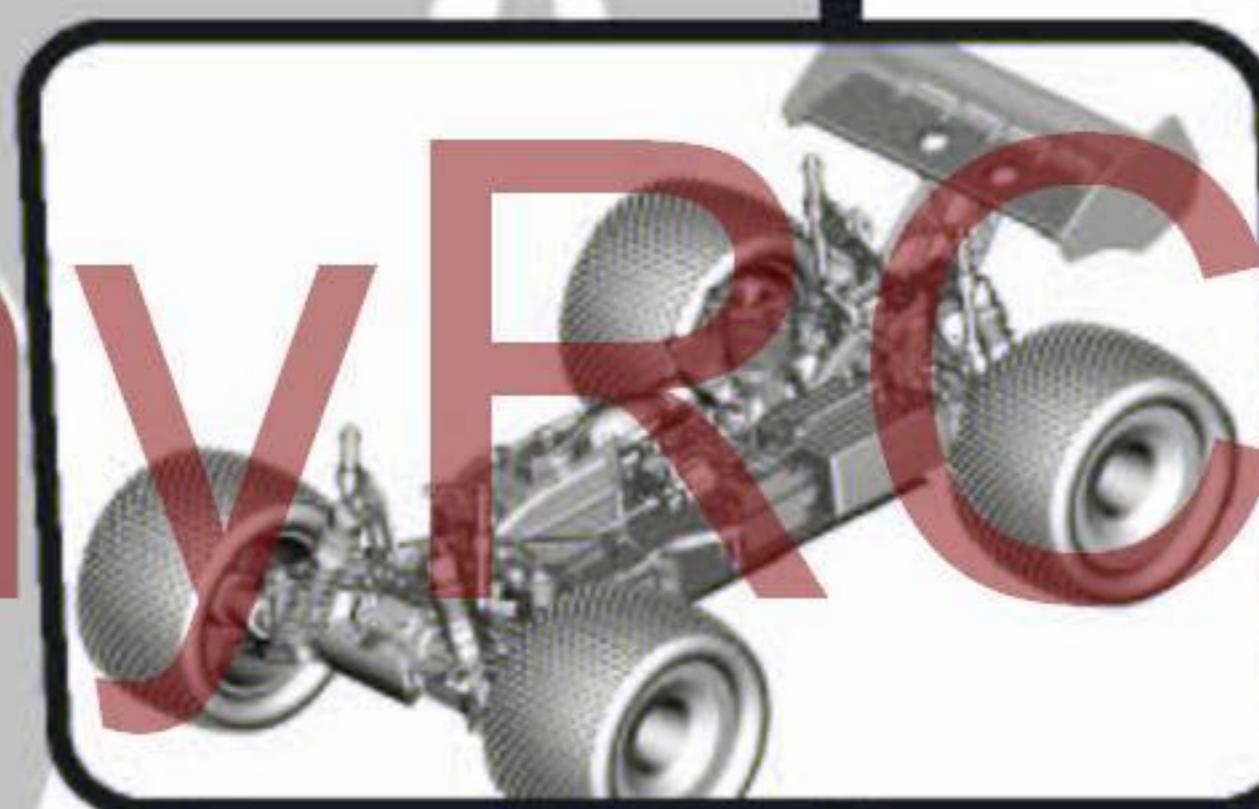
1/8TH SCALE 4WD RADIO CONTROLLED NITRO POWERED VEHICLES



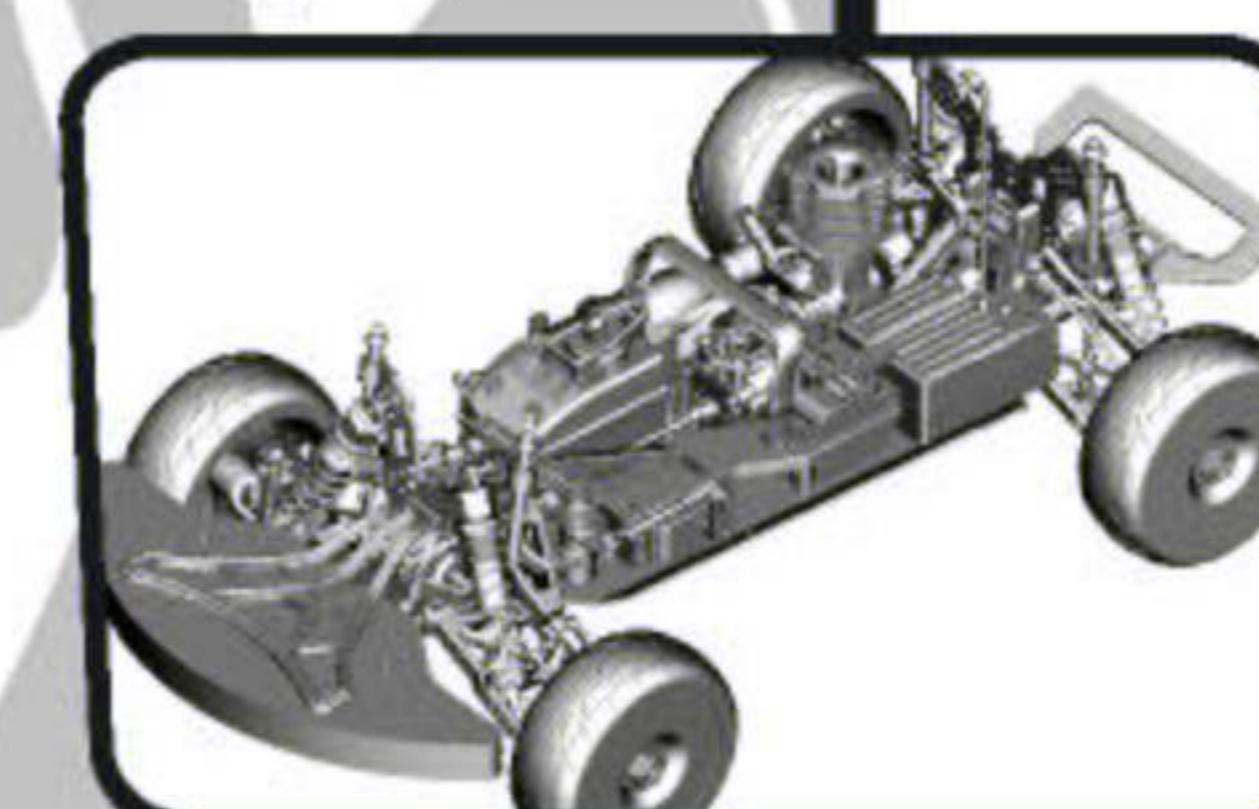
A1.Off-road Buggy(w/o Roll Cage)
A2.Off-road Buggy(w/Roll Cage)



B.Off-road Truck



C.Off-road Truggy



D.On-road Car



E.Rally Racing Car



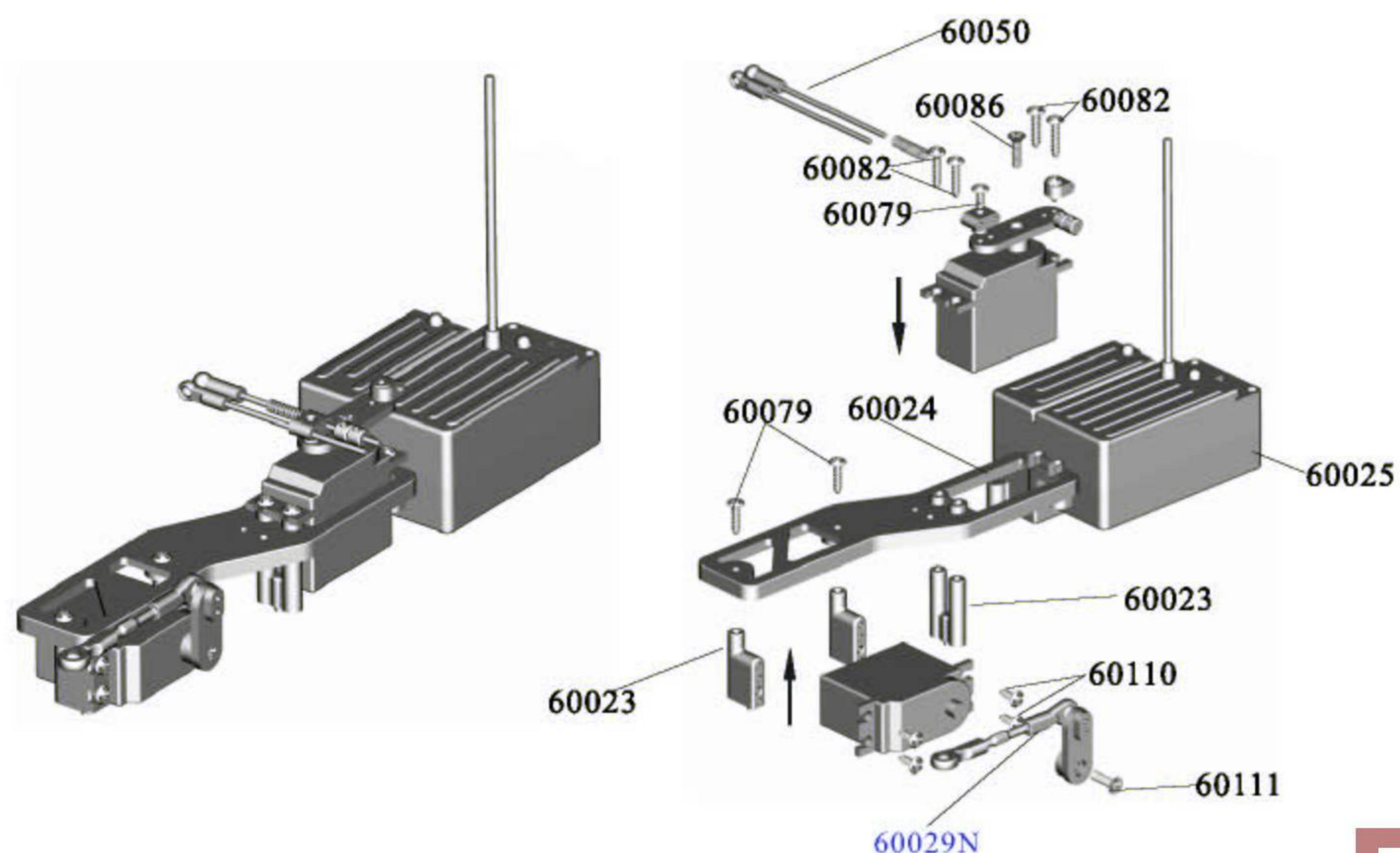
Notes:

- ⇒ 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.

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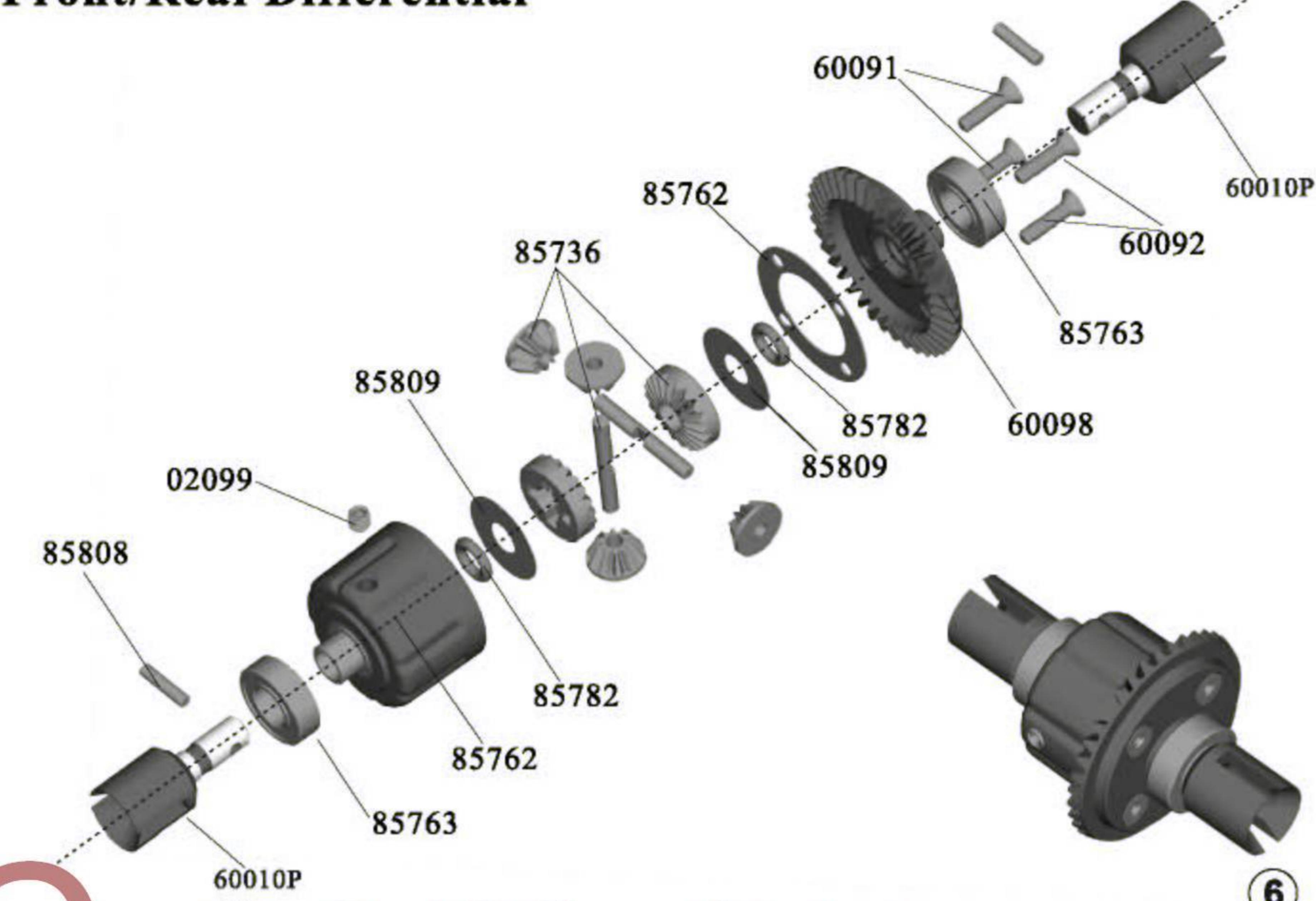
Servo/Receiver Box Complete

④



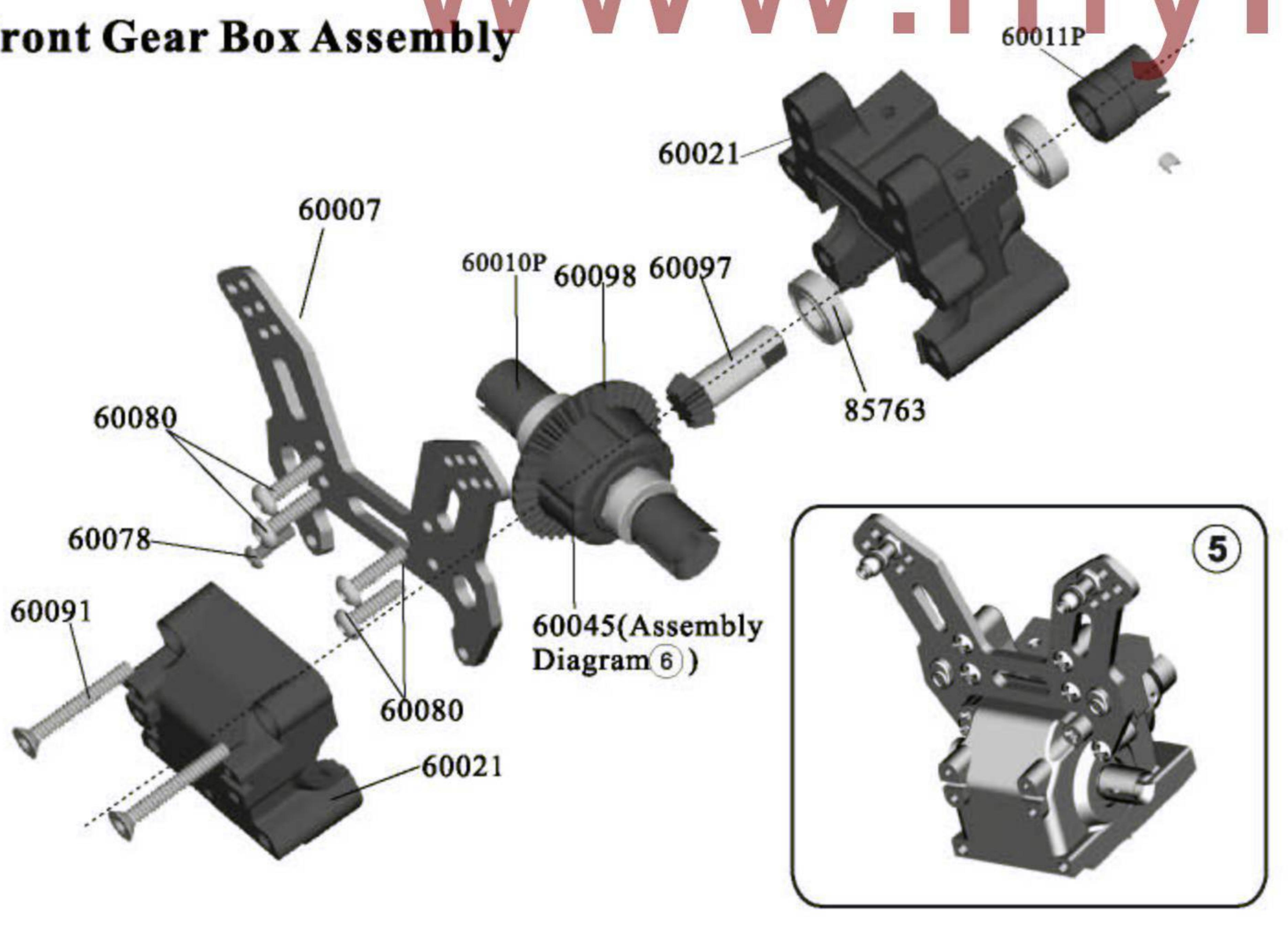
Front/Rear Differential

12



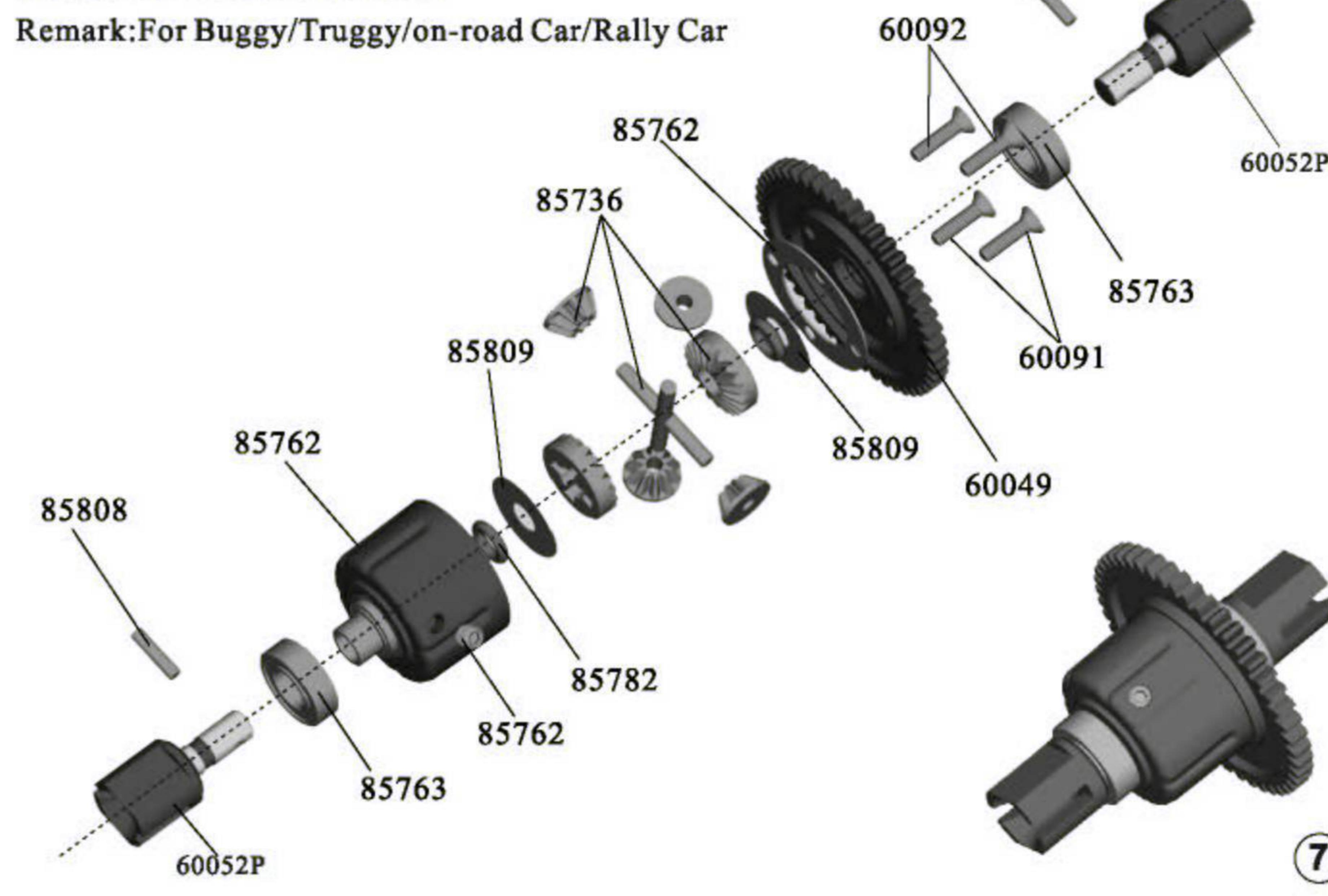
Front Gear Box Assembly

⑤



Centre Differential

11



A1,A2: 1/8Th Scale Nitro Power R/C Off-road Buggy

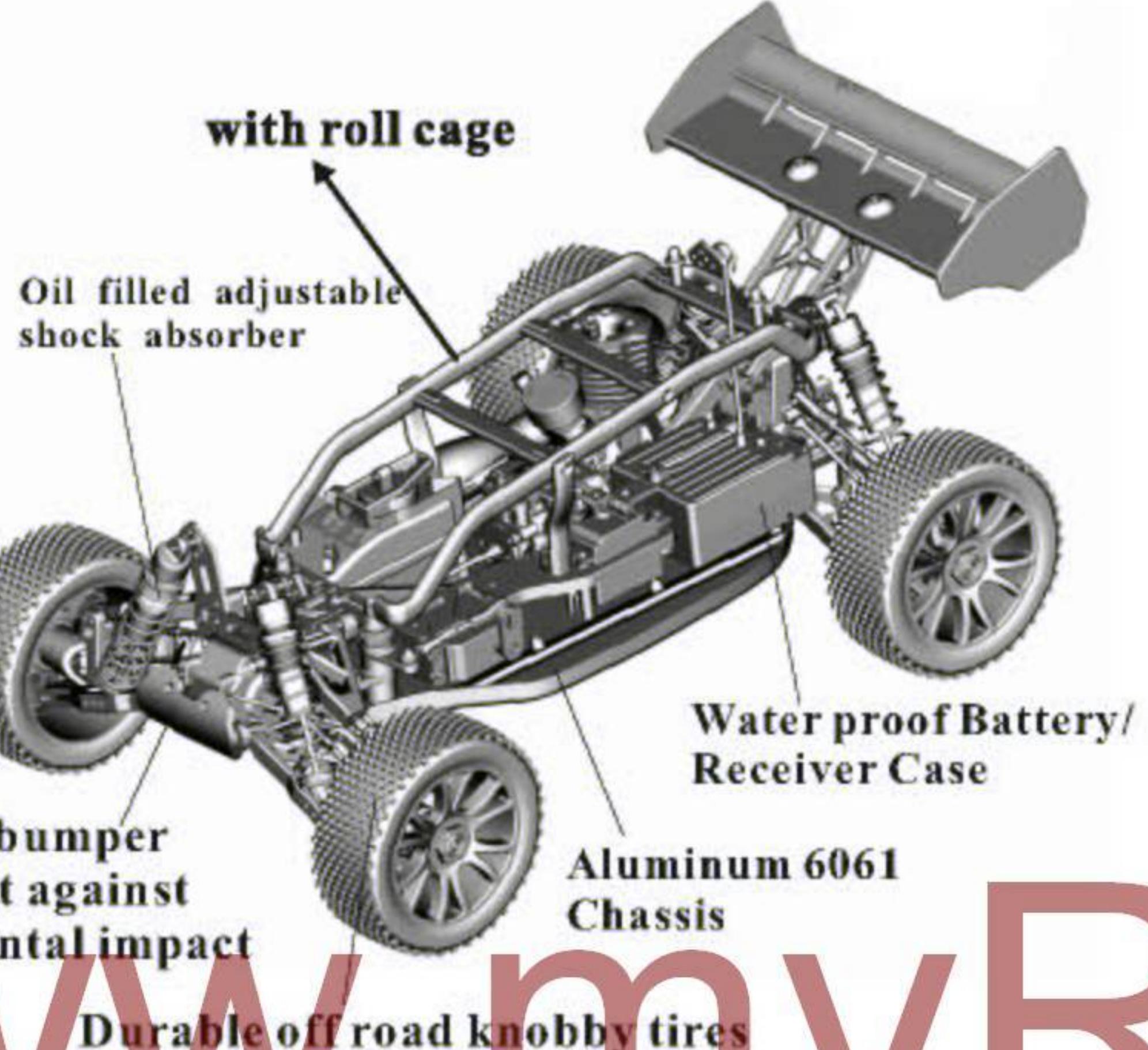
Specifications:(Note: Specifications are subject to change without notice in advance!)

Length	Width	Height	Wheelbase	Ground Clearance	Gear Ratio	Dia./Width Of Wheel	Engine Level
490mm	305mm	190mm	325mm	30mm	1:11.1	Φ 115 *42mm	18/20 exp

A1



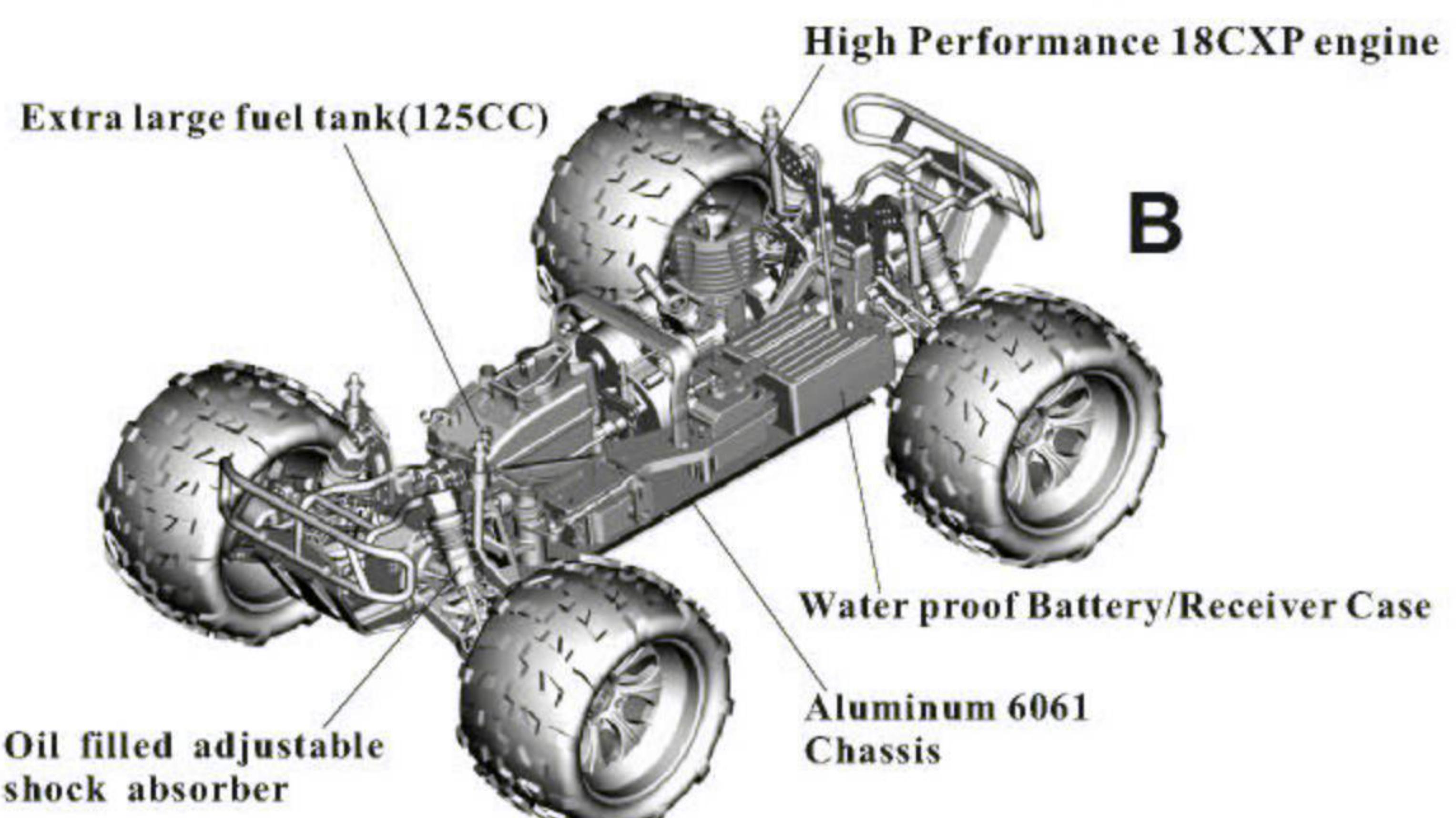
A2



B:1/8Th Scale Nitro Power R/C Off-road Truck

Specifications: (Note: Specifications are subject to change without notice in advance!)

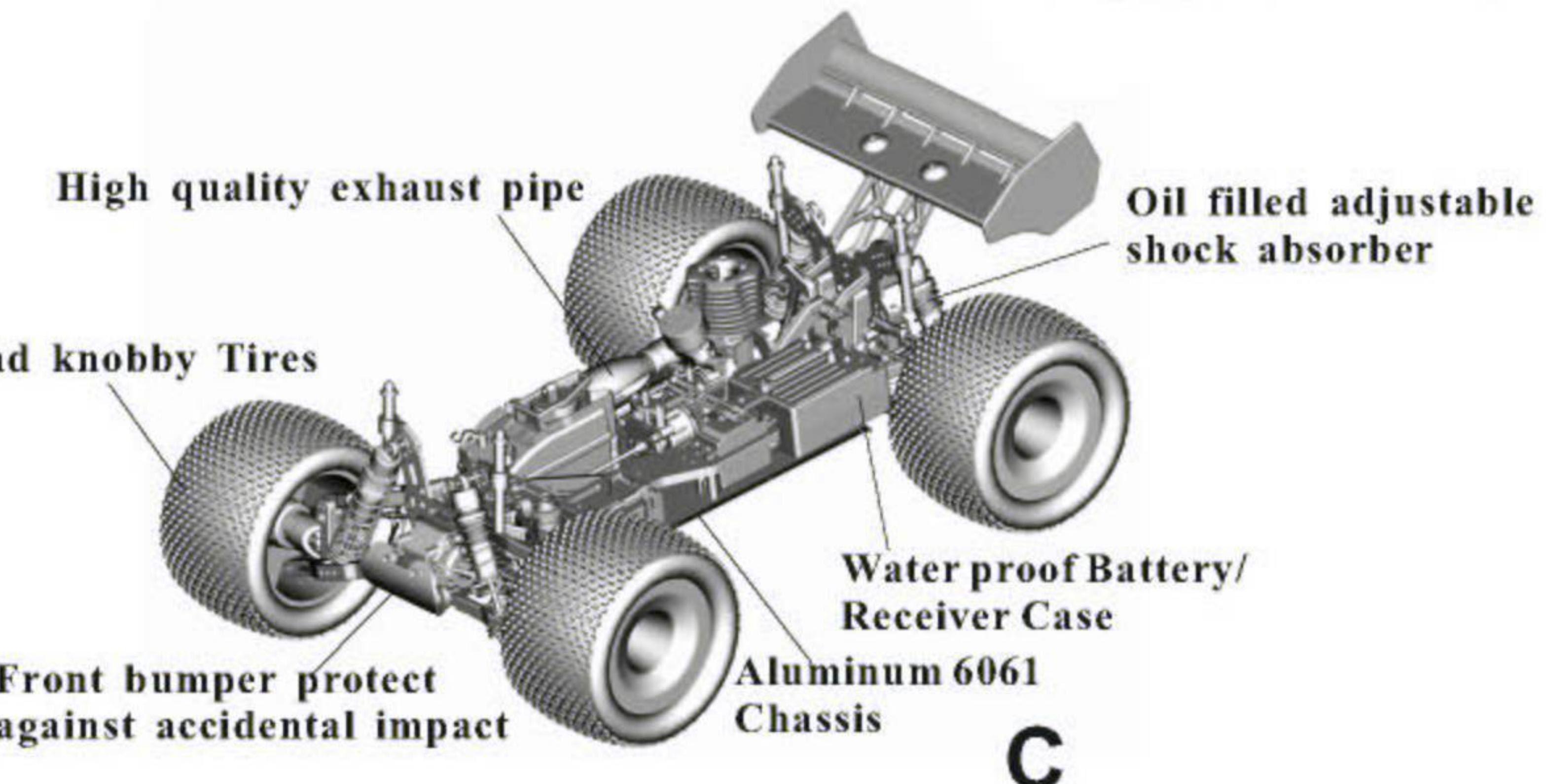
Length	Width	Height	Wheelbase	Ground Clearance	Gear Ratio	Dia./Width Of Wheel	Engine Level
510mm	380mm	250mm	325mm	58mm	1:19.84(L) 1:14.38(H)	Φ 150 *90mm	18/20 exp



C: 1/8Th Scale Nitro Power R/C Off-road Truggy

Specifications: (Note: Specifications are subject to change without notice in advance!)

Length	Width	Height	Wheelbase	Ground Clearance	Gear Ratio	Dia./Width Of Wheel	Engine Level
500mm	380mm	198mm	325mm	42mm	1:11.1	Φ 130 *85mm	18/20 exp



D:1/8Th Scale Nitro Power R/C On-road Car

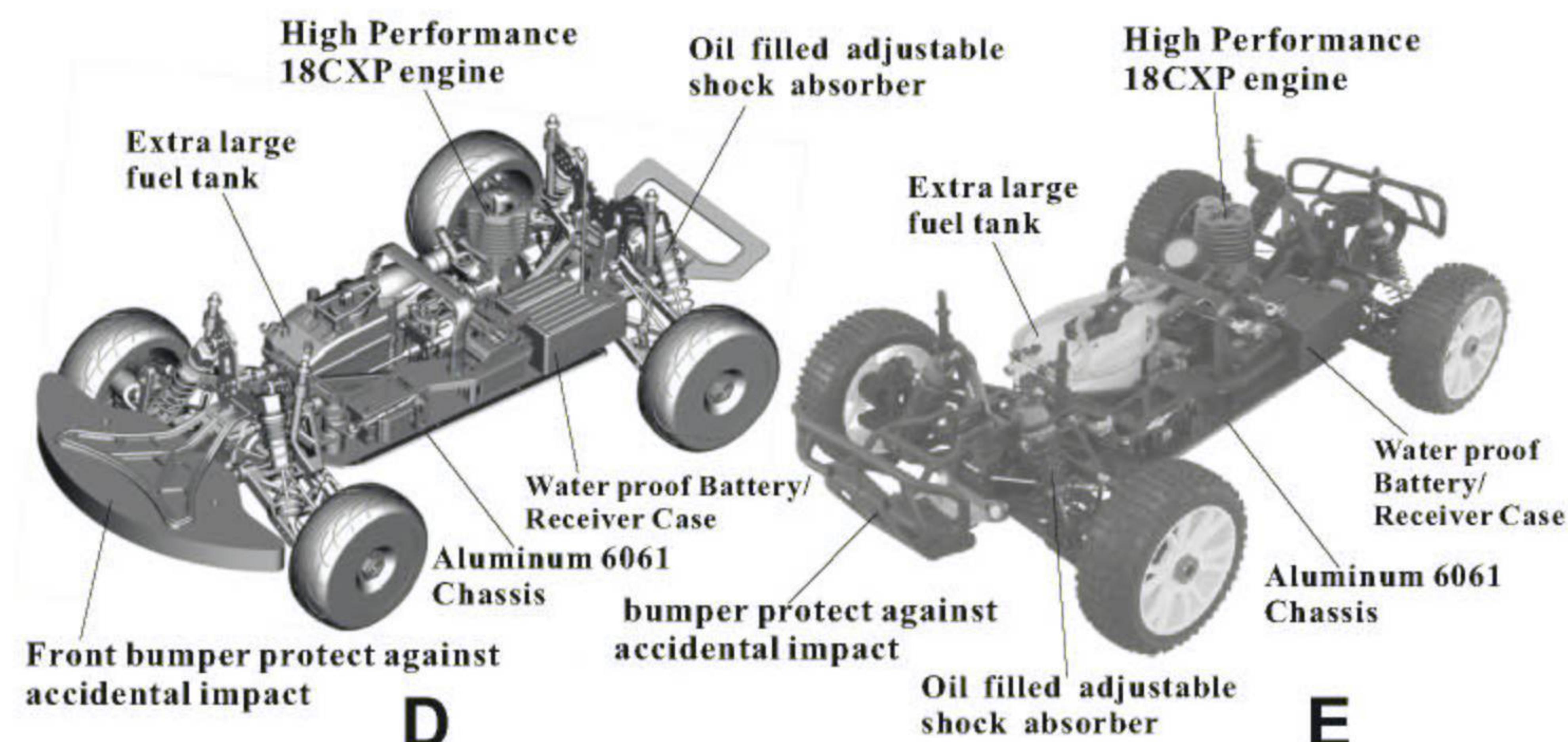
Specifications: (Note: Specifications are subject to change without notice in advance!)

Length	Width	Height	Wheelbase	Ground Clearance	Gear Ratio	Dia./Width Of Wheel	Engine Level
580mm	303mm	155mm	325mm	20mm	1:11.1	Φ 109 *41mm	18/20 exp

E:1/8Th Scale Nitro Power R/C Rally Car

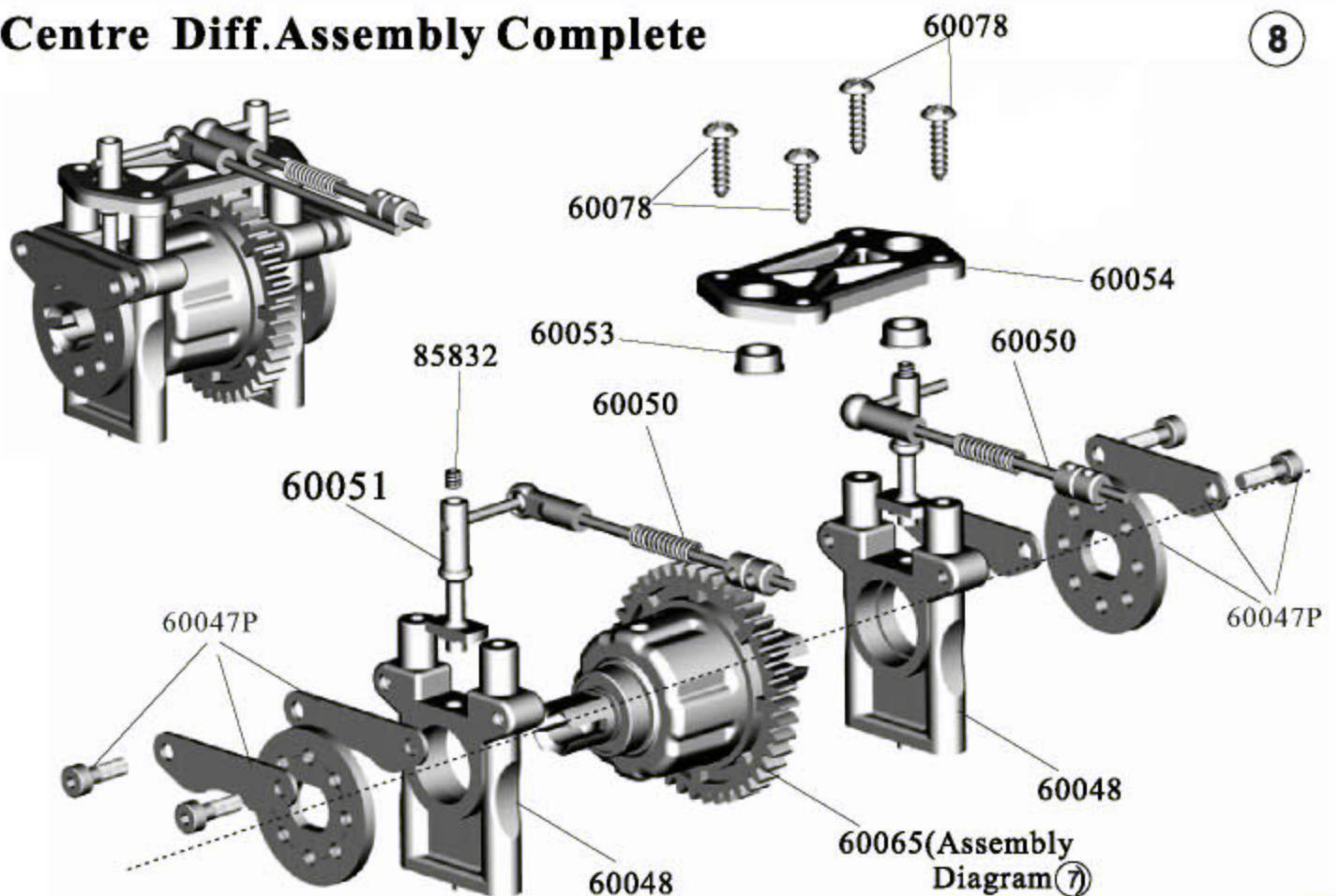
Specifications: (Note: Specifications are subject to change without notice in advance!)

Length	Width	Height	Wheelbase	Ground Clearance	Gear Ratio	Dia./Width Of Wheel	Engine Level
530mm	305mm	160mm	325mm	30mm	1:11.1	Φ 115 *42mm	18/20 exp



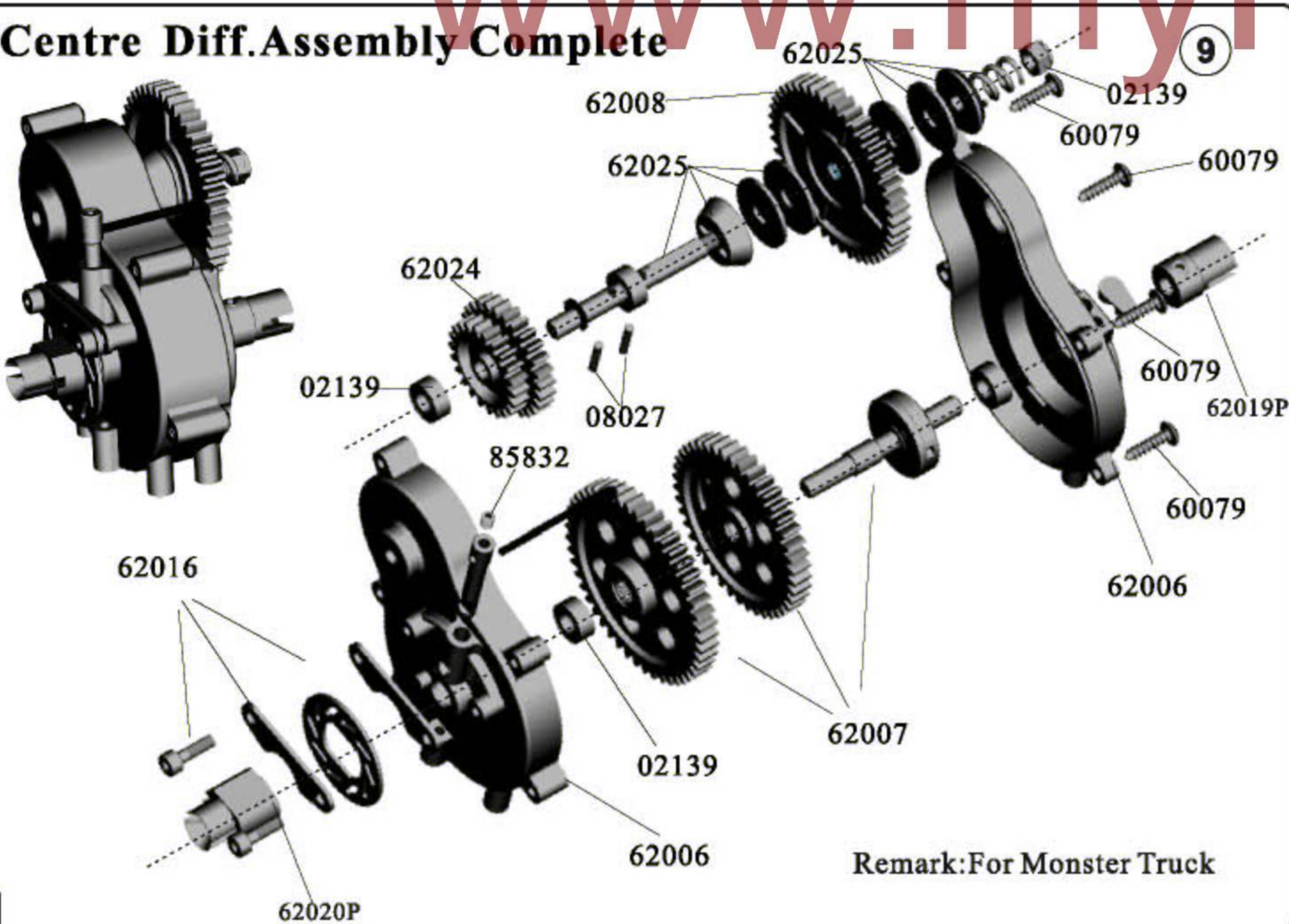
Off-road Jeep(C):It has all the features of Truck except covered with Jeep Body

Centre Diff.Assembly Complete



⑧

Centre Diff.Assembly Complete

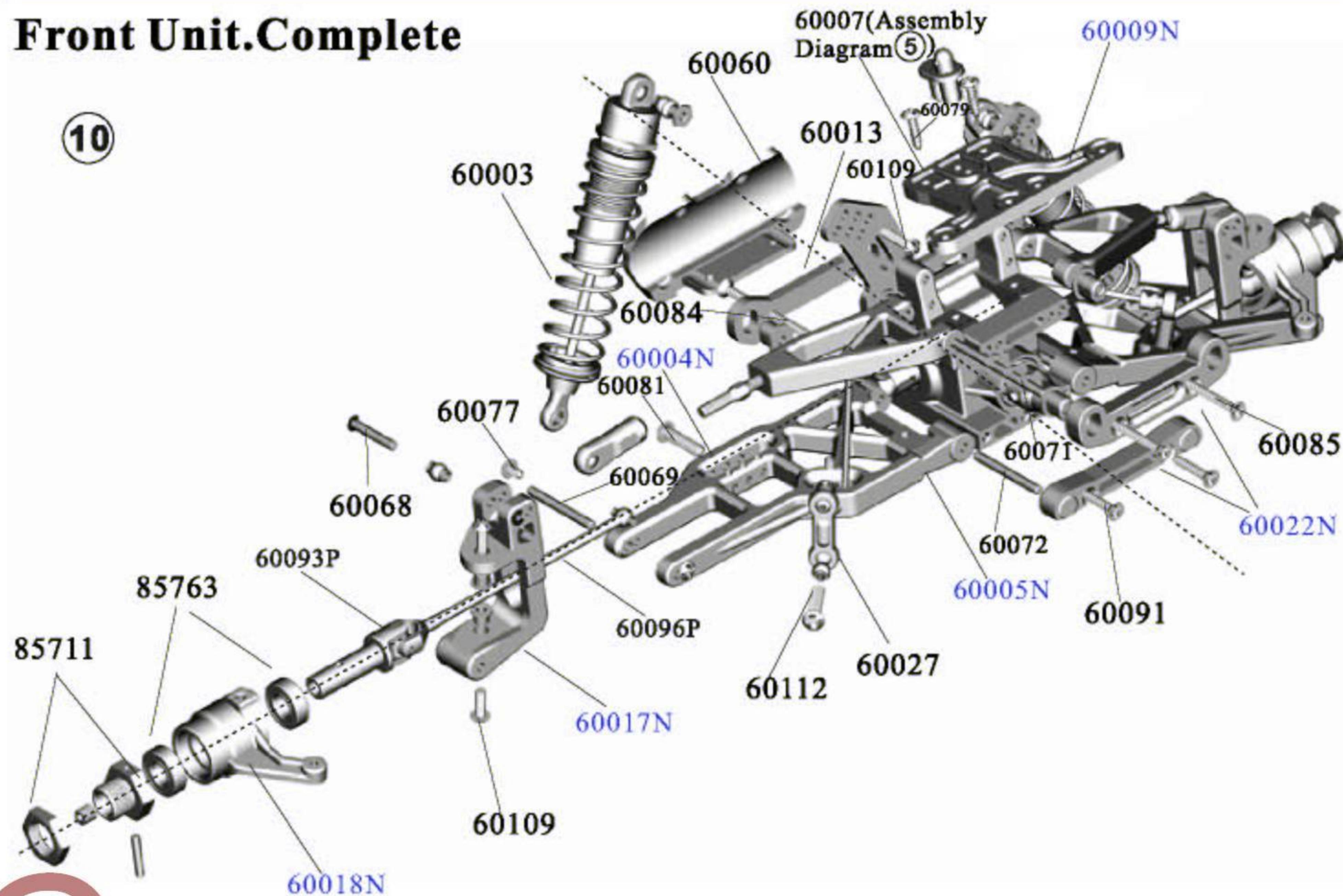


Remark:For Monster Truck

⑨

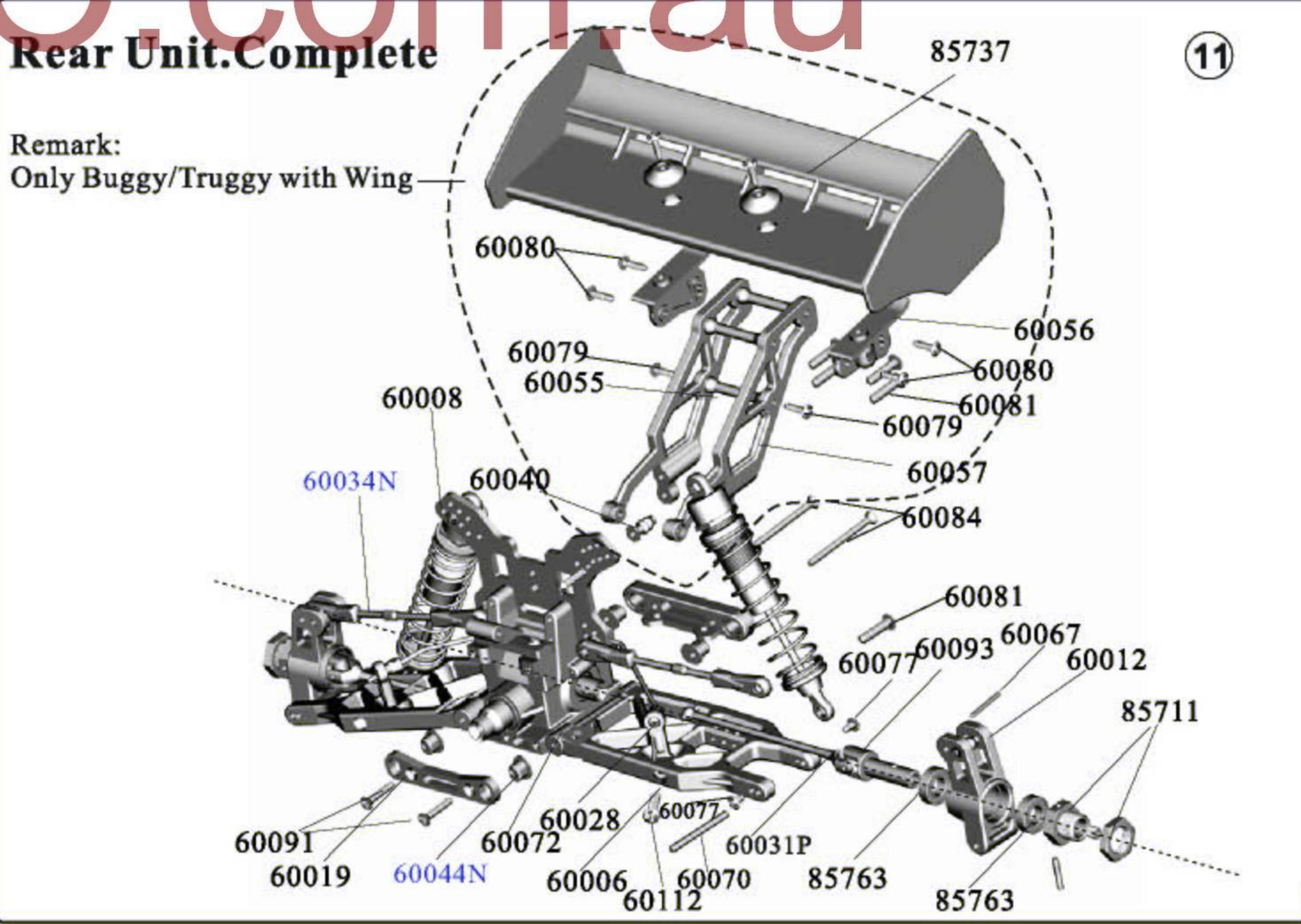
Front Unit.Complete

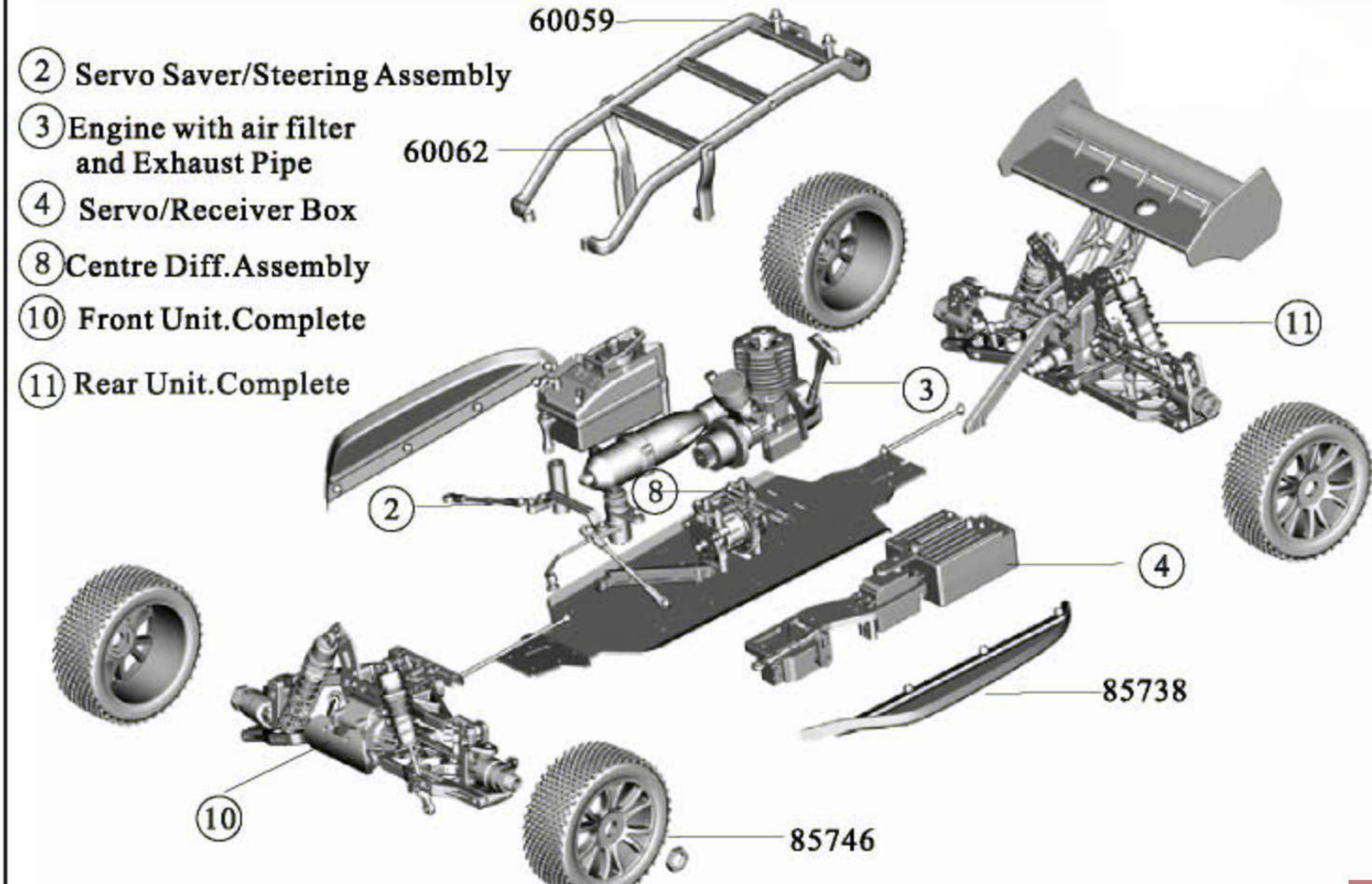
⑩



Rear Unit.Complete

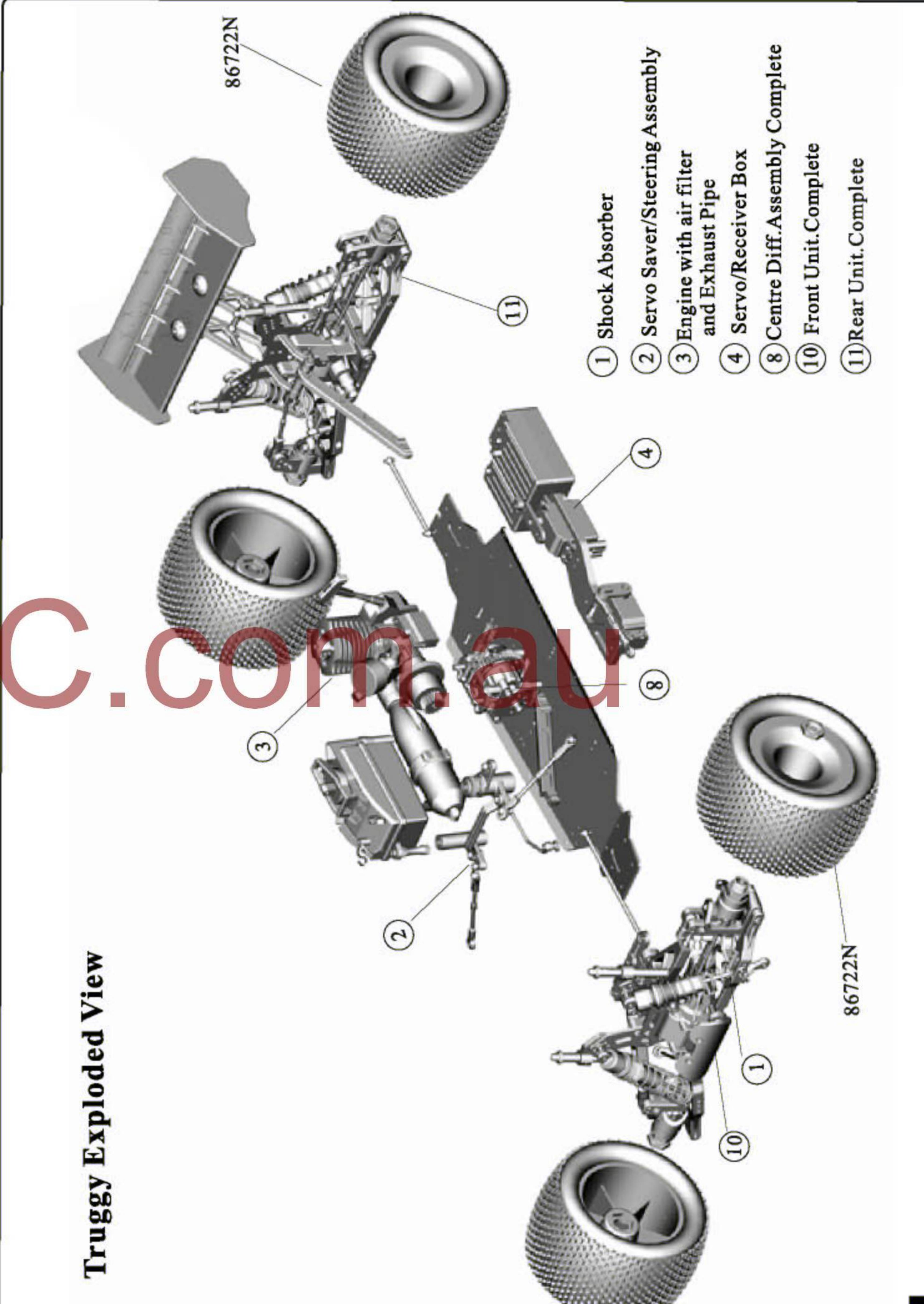
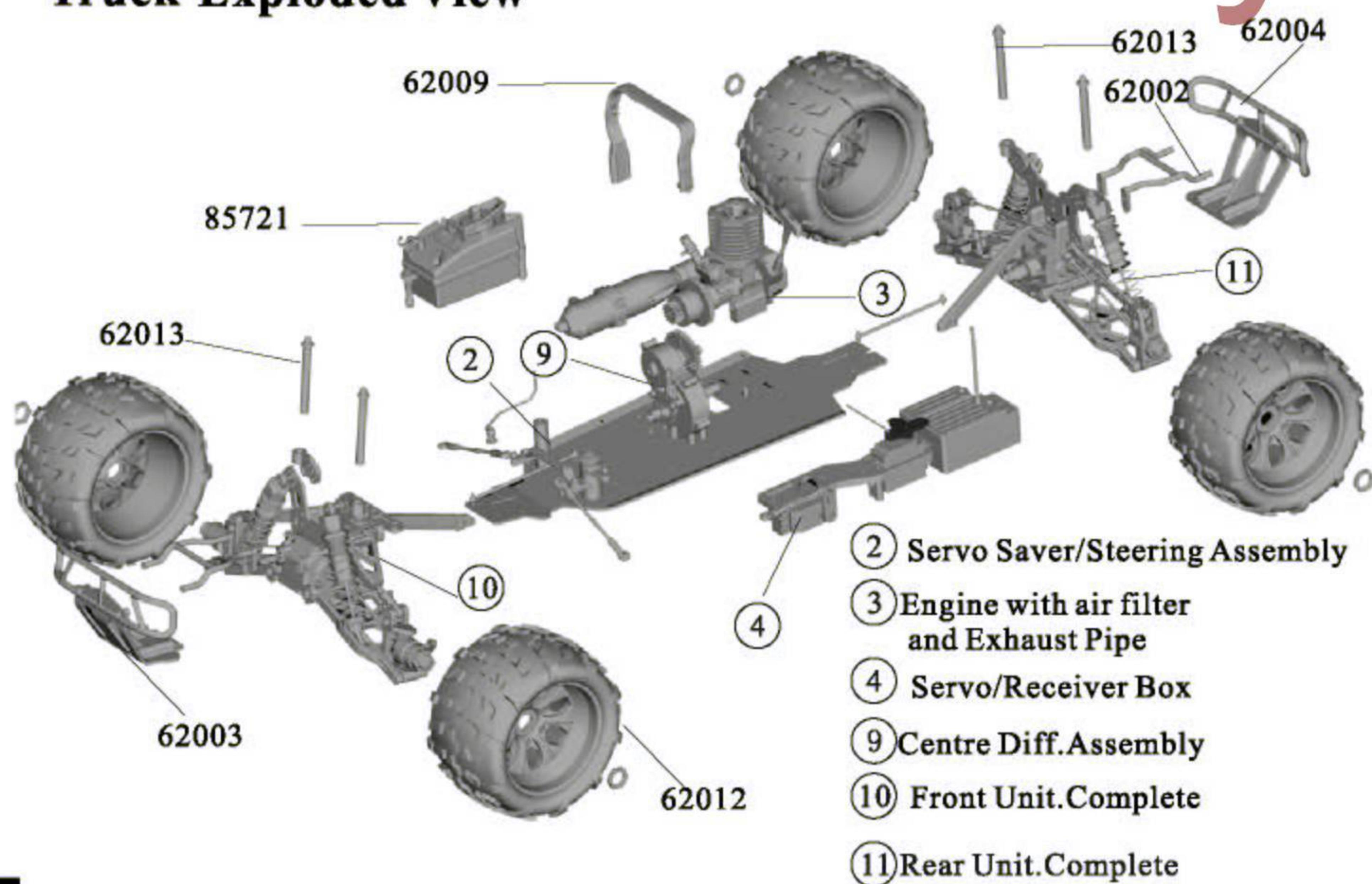
⑪





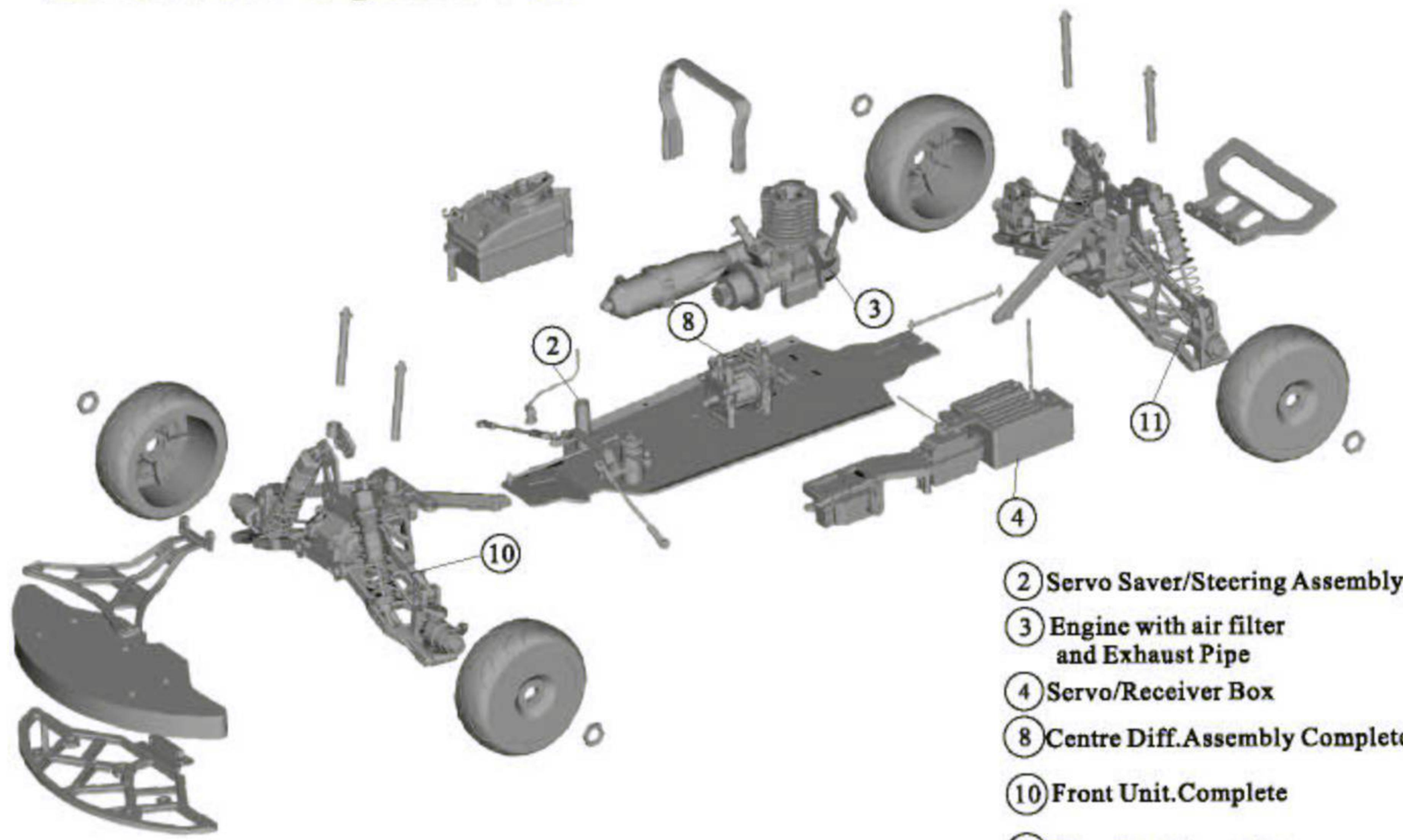
Buggy Exploded View

Truck Exploded View

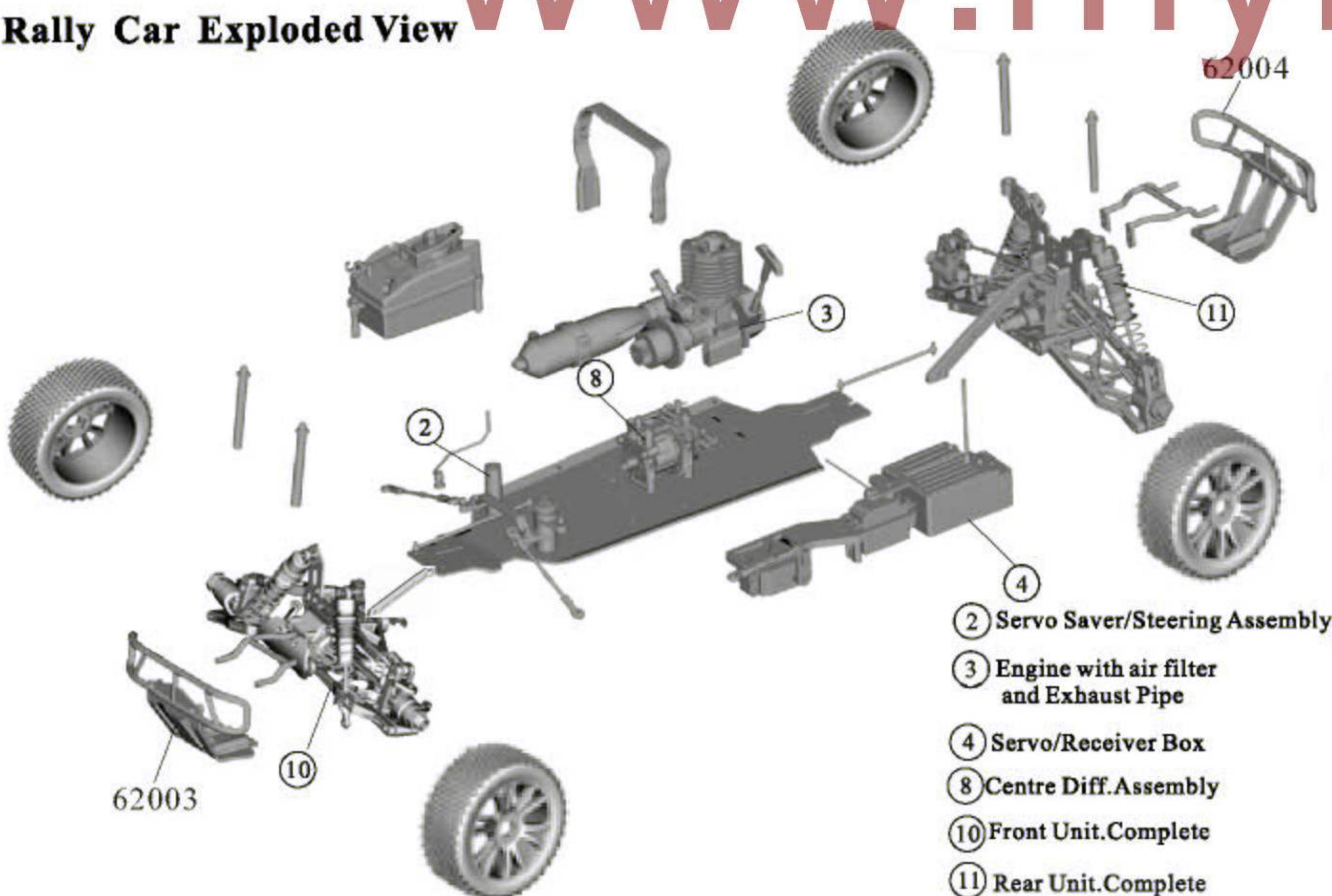


Buggy/Truck/Truggy/Car/Rally Car (A1A2BCDE) Common parts

On-road Car Exploded View

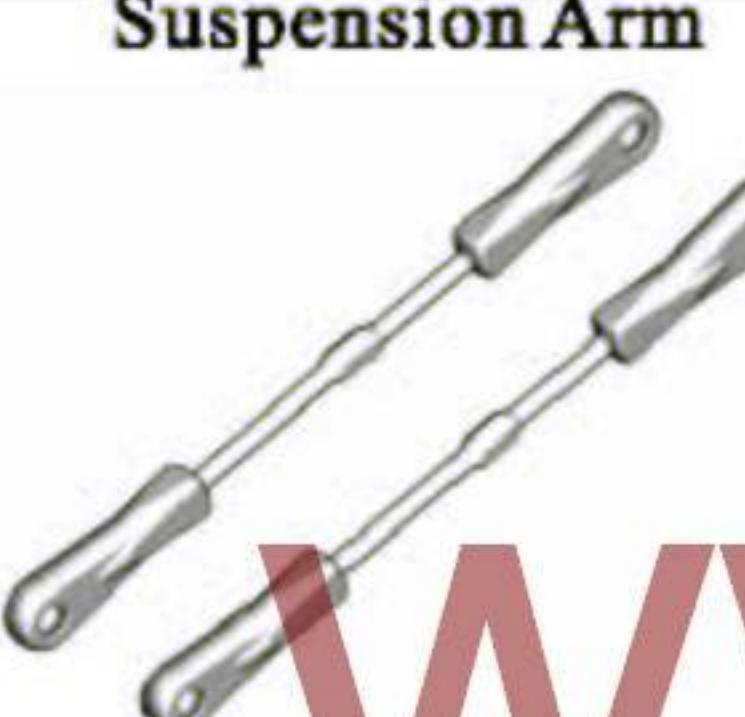
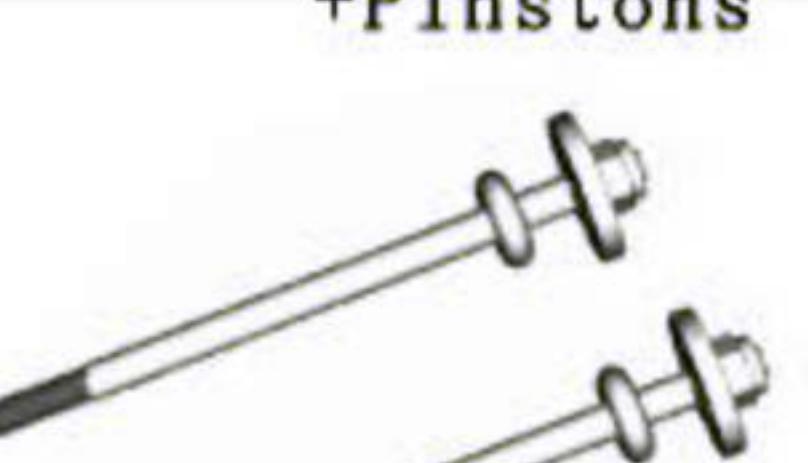
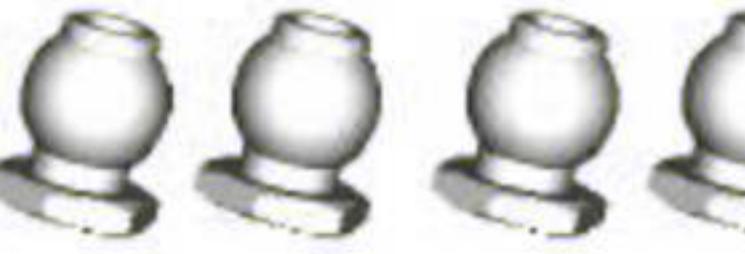
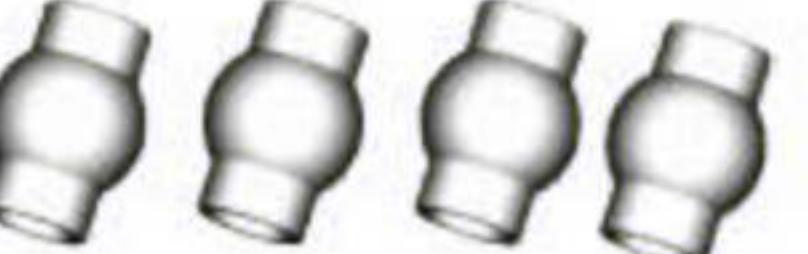


Rally Car Exploded View

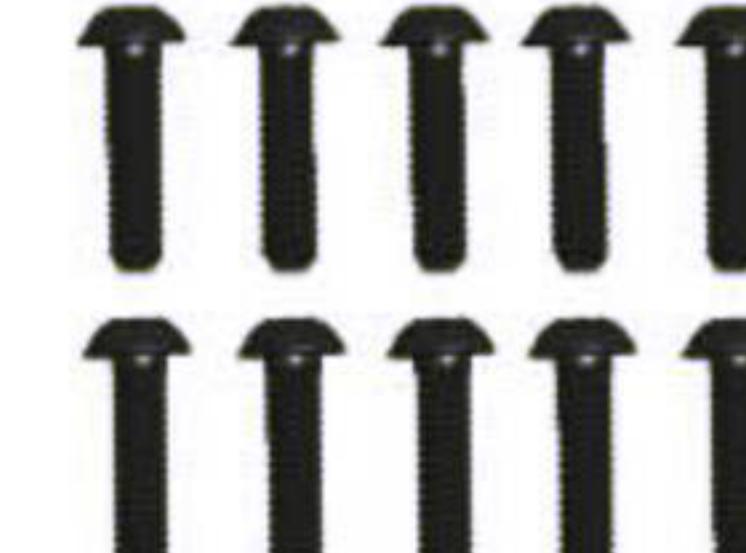
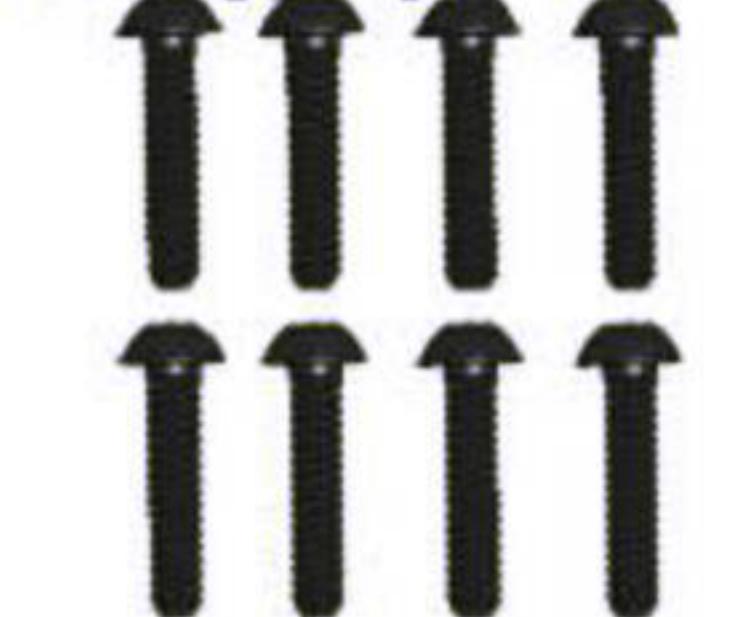
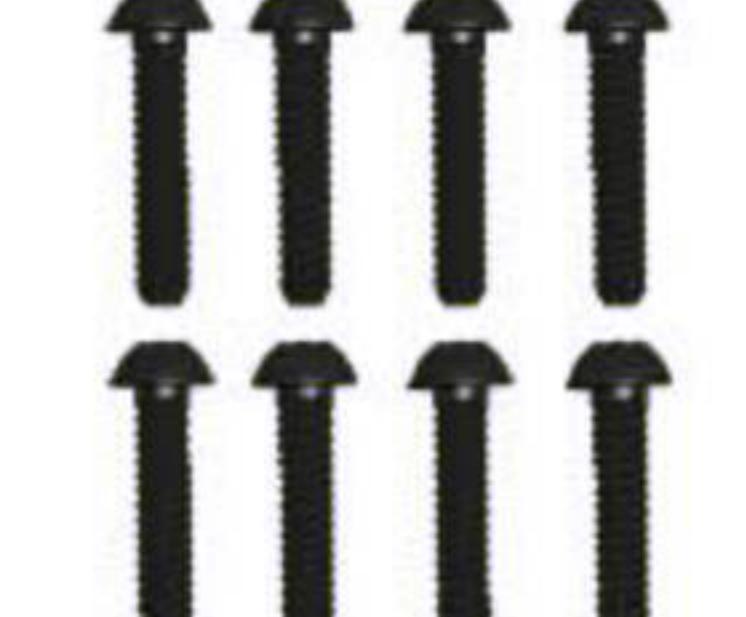
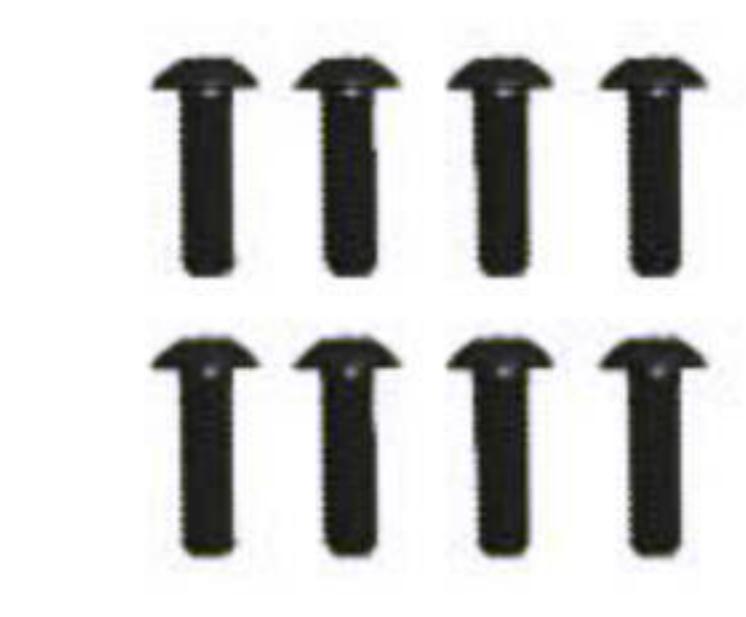


60001-Shock Absorber Body+Mount 2P	60002 -Shock Absorber Spring 2P	60003-Shock Absorber 2P	60004N-Front Upper Suspension Arm 2P
60005N-Front Lower SuspensionArm 2P	60006N-Rear Lower Suspension Arm 2P	60007-Front Shock Tower	60008-Rear Shock Tower
60009N-Front Top Plate	60010P-Diff.Cups 2P	60011P-Centre Driven Joint Cup 2P	60012-Rear Hub Carrier 2P
60013-Front Lower Suspension Arm Holder	60014-Steering/Saver Complete	60015-Steering Post 2P	60016-Servo Saver/Spring
60017N-Front Wheel Hub Carrier	60018N-Steering Hub Carrier	60019-Rear Lower Susp. Arm Holder	60020-Rear Lower Suspension Arm Reinforcement plate
60021-Gear Box	60022N-Suspension Holders	60023-Radio Plate Post	60024-Radio Tray

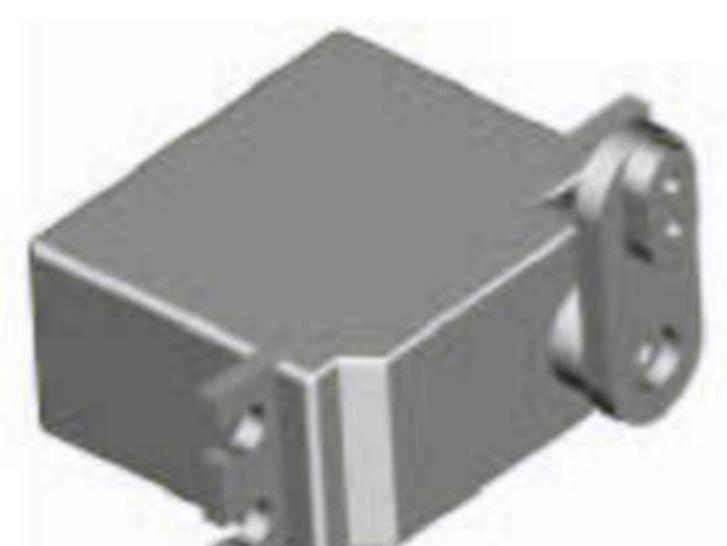
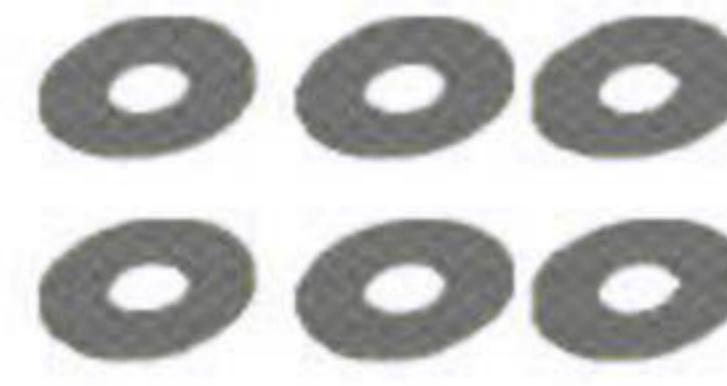
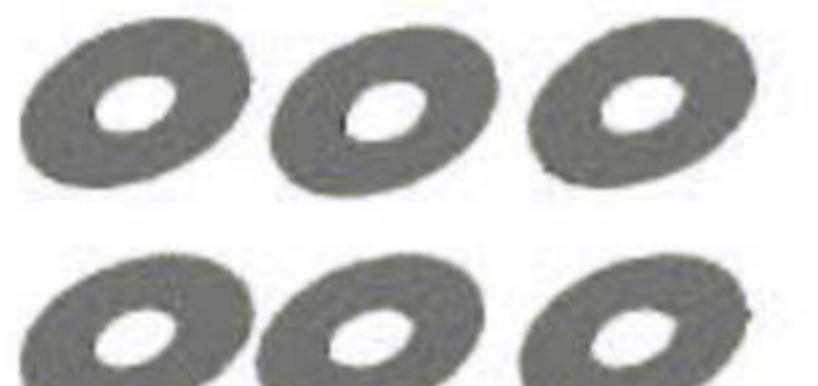
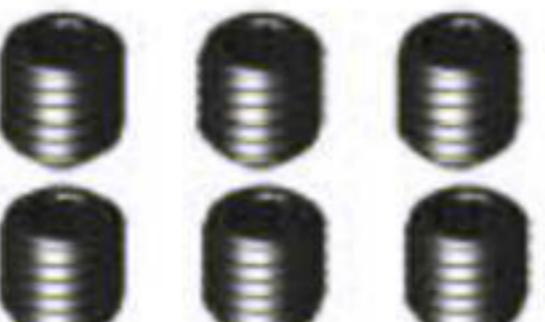
Buggy/Truck/Truggy/Car/Rally Car (A1A2BCDE) Common parts

60025-Receiver Case	60026-Shock Absorber Cap 2P	60027-Front Sway Bar +Link	60028-Rear Sway Bar +Link
			
60029N-Servo Link 2P	60030N-Steering Link 2P	60031P-Front Universal Drive Joint 2P	60032-Front Brace
			
60033-Rear Brace	60034N-Rear Upper Suspension Arm 2P	60035-Shock Shaft +Pinstons	60036-Exhaust Pipe Mount 2P
			
60037-Rear Upper Susp. Arm Ball $\phi 5.8$	60038-Steering Link Ball $\phi 5.8$	60039-Rear Hub Carrier Ball $\phi 5.8$	60040-Shock Absorber Link Ball $\phi 5.8$
			
60041-Shock Balls $\phi 5.8$	60042-Steering Shaft Bush $\phi 5.8$	60043-E-Clips 2.5	60044N-Adjustable Bushes Complete
			
60045-Differential gear set	60067-Rear Hub Carrier Hinge Pins(short) 3*19.7 2P	60068-Front Hub Carrier Hinge Pins(short) 3*21 2P	60069-Front Hub Carrier Hinge Pins(long) 3*31 2P
			

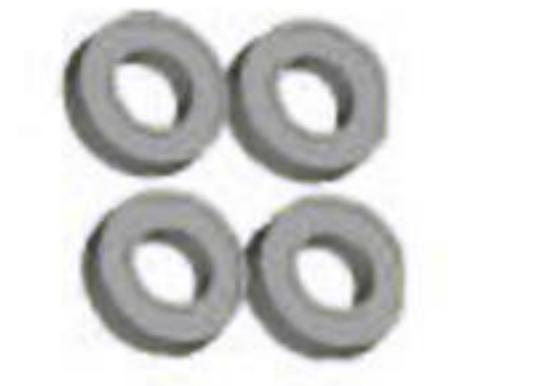
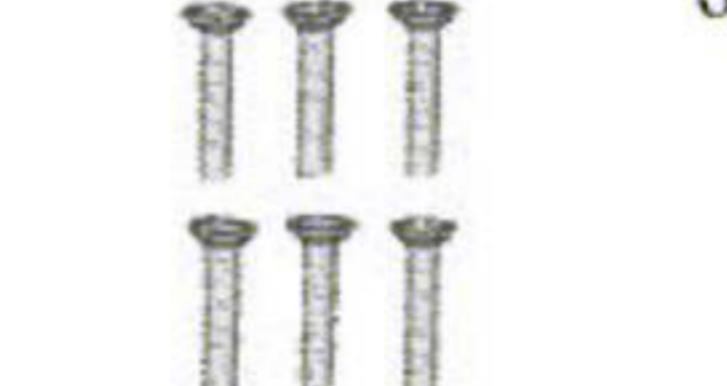
Buggy/Truck/Truggy/Car/Rally Car (A1A2BCDE) Common parts

60070- Rear Hub Carrier Hinge Pin(Long) 3*35.5 2P	60071- Front Upper Susp. Arm Hinge Pin 3.5*47 2P	60072- Front Lower . Susp.Arm Hinge Pin 3.5*66 2P	60072R- Rear Lower. Susp. Arm Hinge Pin 3. 5*64 2P
			
60073-Column Head Mechanical Screw 3*8	60074-Column Head Mechanical Screw 3*10 4P	60075-Column Head Mechanical Screw 3*30 4P	60076-Column Head Mechanical Screw 3*38*1 4P
			
60077-Cap Head Self-tapping Screw 3*6 12P	60078-Cap Head Self-tapping Screw 3*10 12P	60079-Cap Head Self-tapping Screw 3*12 10P	60080-Cap Head Self-tapping Screw 3*14 10P
			
60081-Cap Head Self-tapping Screw 3*16 8P	60082-Cap Head Self-tapping Screw 3*18 8P	60083-Cap Head Mechanical Screw 3*10 8P	60084-Countersunk Self-tappingl Screw 3*40 4P
			
60085-Countersunk Self-tappingl Screw 3*25 4P	60086-Countersunk Self-tappingl Screw 3*10 8P	60087-Ball head Self-tappingl Screw 2*8 6P	60088-Ball head Self-tappingl Screw 3*18 6P
			
60089-Ball head Mechanical Screw 3*10 6P	60090--Countersunk Self-tappingl Screw 3*14 8P	60091--Countersunk Self-tappingl Screw 3*16 8P	60092-Countersunk Self-tappingl Screw 3*18 10P
			

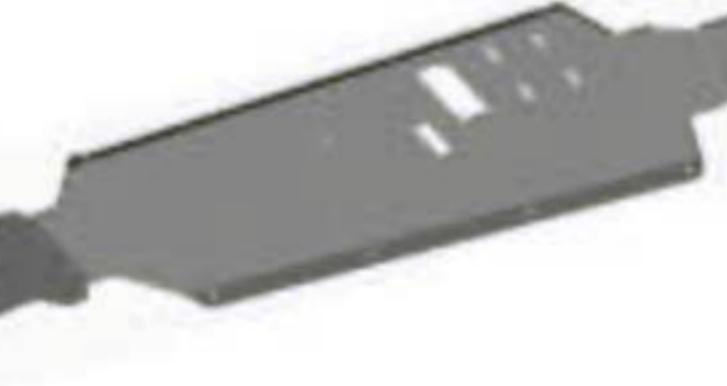
Buggy/Truck/Truggy/Car/Rally Car (A1A2BCDE) Common parts

60093P-Wheel Axle 2P	Sp9001-Steering Servo 6/9kg	Sp3001-Throttle Servo 3kg	60096P-Rear Dogbone (96mm) 2P
			
60097-Diff. Pinions (11T) 2P	60098-Diff. Gear(38T)	85711-Wheel Hex.+ Nuts 2P	85721-Fuel Tank(125CC)
			
85726-Switch Housing 2P	85729-Battery/receiver Box Clips1.0 6P	85734-Body pins 1.5 2P	85736-Diff.Gears+Pins
			
85753-Fuel Pipes 2P	85762-Differential Case	85763-Bearings 16*8*5 8P	85793-Nylon Nuts M3 6P
			
85805-Fuel Inlets 2P	85806- Fuel Tank Spring	85808-Diff Bevel Gear Pins 3P	85809-Washer 17*6.2*0.3 (For Differentials Mount) 6P
			
85810-Washer 16*13.1*0.3 (For Gear Box Bearing Mount) 6P	85832-Hex Head Grub Screw M3*3 8P	85834-Hex Head Grub Screws M5*4 6P	1860027-Aluminum Exhaust Pipe
			

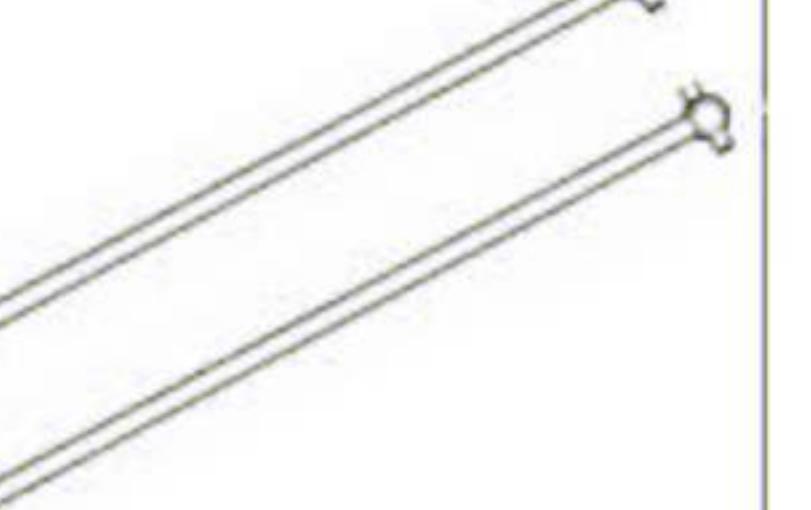
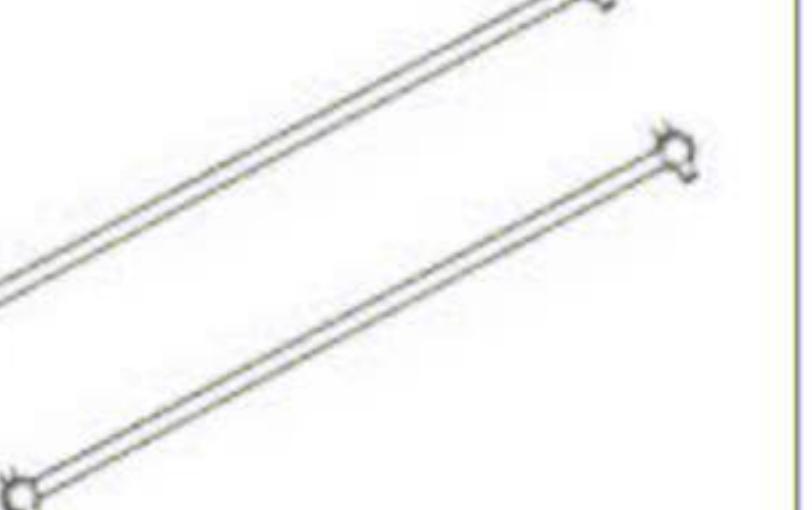
Buggy/Truck/Truggy/Car/Rally Car (A1A2BCDE) Common parts

02027-Silicon Rubber Pipe	02028-Air Filter w/foam	1860028-Aluminum Manifold (for SH21CXP engine)	02139-Bearings 10*5*4 (For Clutch Bell) 4P
			
02048-Clutch Shoe (w/spring)	02049-Engine Mount w/Cap Head Screw	02065-Engine Flywheel Post 2P	02068-Engine Flywheel
			
02070-Battery Case	02071-Receiver	02072-Servo Horns 2P	02103-Zip Ties 6P
			
02155-Chargeable Battery Pack(6V 350mA)	02099-Hex Head Grub Screw 4*4 8P	60109-Ball Head Mechanical Screw 3*11 6P	60110-Cap Head Self-tapping Screw 3*8 6P
			
60111-Countersunk Mechanical Screw 3*8 6P	60112-Column Head Mechanical Screw 3*16 4P		
			

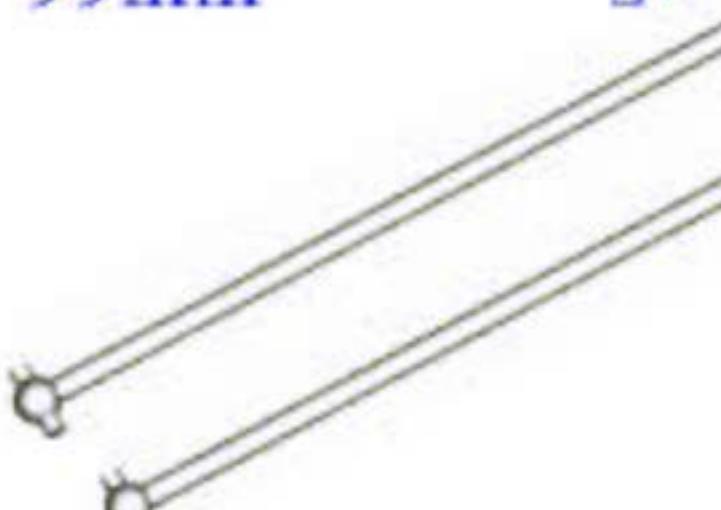
Spare Parts for off-road Buggy((A1/A2))

60046-Chassis	60047P-Brake Disc Set	60048-Centre Diff.Mount 2P	60049-Gear(45T)
			

Spare Parts for off-road Buggy(A1/A2)

60050-Brake Link 2P	60051-Brake Cam 2P	60052P-Centre Diff.Joint Cups 2P	60053-Brake Cam Bush 2P
			
60054-Center Diff Top Plate	60055-Wing Reinforcement Post	60056-Wing Adjustable Mount(L/R)	60057-Wing Stay(L/R)
			
60058-Wing Reinforcement Holder	60059-Roll Cage	60060-Front Bumper	60061-Clutch Bell Gear (14T)
			
60062-Roll Cage Mount	60063P-Centre Front Dogbone(117mm) 2P	60064P-Center Rear Dogbone(79mm) 2P	60065-Differential gear set
			
60113N-Body Post	85738-Side Guard(L/R)	85737-Tail Wing	85890-Tires w/Foam 2P
			
85732-Wheel Rims 2P	85746-Wheels Complete (85890+85732) 2P		
			

Spare Parts for off-road Monster Truck (B)

62001-Chassis	62002-Bumper Stay Post	62003-Front Bumper	62004-Rear Bumper
			
62005-Centre Diff.Gear Complete	62006-Gear Box 62006N-Gear Box	62007-Second Way Gear (42T&47T) 62007N-Second Way Gear (42T&47T) 2P	62008-Gear(43T)
			
62009-Handle	62010-Wheel Rims 2P	62011-Tires 2P	62012-Wheels Complete (62010+62011) 2P
			
62013-Body Post	62014-Brake Sway Pole	62015-Clutch Bell Gear (16T)	62016-Brace Disc Set
			
62017-Body Post Mount(F) 62018-Body Post Mount(R)	62019P-Driven Cup 2P	62020P-Brake Cup 2P	62021P-Center Dogbone(F) 105mm 2P 62050-Center Dogbone(F) 99mm 2P
			
62022P-Center Dogbone(R) 86mm 2P	62023-Rear Brace Mount	62024-Diff Gear(22T&27T)	62025-Diff Shaft+Spring+Post+Screw+Washer Set
			

Spare Parts for off-road Monster Truck (B)

62047-Second Way Gear (42T)	62051-One-way Hex. Bearing w/ Hex. Nut		

Spare Parts for off-road Truggy(C)

62017-Body Post Mount(F)	62018-Body Post Mount(R)	85737-Tail Wing	86701N-Wheel Rims 2P

Spare Parts for off-road Truggy(C)

60046-Chassis	60047P-Brake Disc Set	60048-Centre Diff.Mount 2P	60049-Gear(45T)
60050-Brake Link 2P	60051-Brake Cam 2P	60052P-Centre Diff.Joint Cups 2P	60053-Brake Cam Bush 2P
60054-Center Diff Top Plate	60055-Wing Reinforcement Post	60056-Wing Adjustable Mount 2P	60057-Wing Stay 2P
60058-Wing Reinforcement Holder	60060-Front Bumper	60061-Clutch Bell Gear (14T)	60063P-Centre Front Dogbone(117mm) 2P
60064P-Center Rear Dogbone(79mm) 2P	60065-Differential gear set	62009-Handle	62013-Body Post 4P

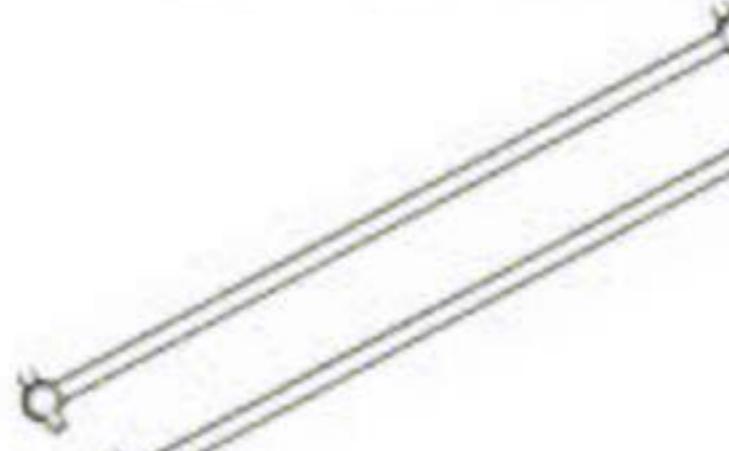
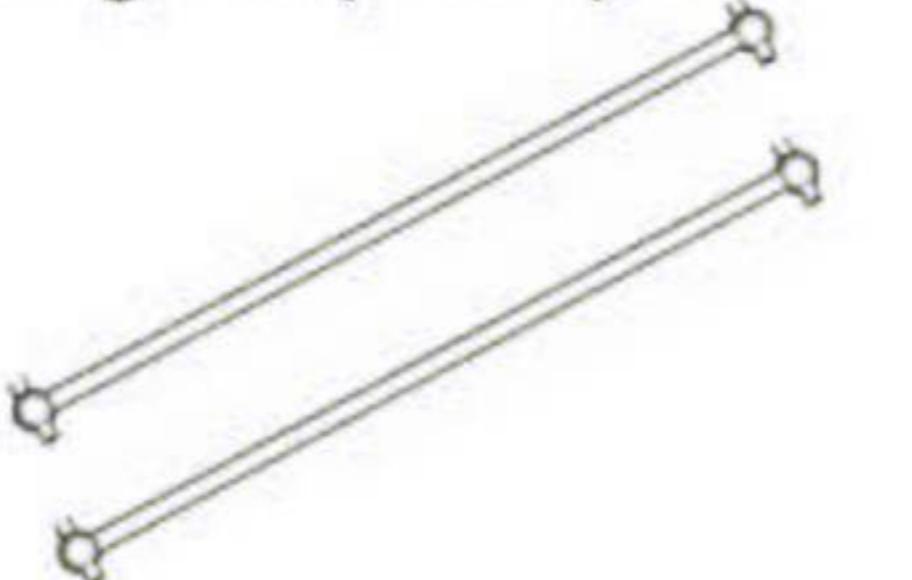
Spare Parts for on-road Car(D)

60046-Chassis	60047P-Brake Disc Set	60048-Centre Diff.Mount 2P	60049-Gear(45T)
60050-Brake Link 2P	60051-Brake Cam 2P	60052P-Centre Diff.Joint Cups 2P	60053-Brake Cam Bush 2P
60054-Center Diff Top Plate	60061-Clutch Bell Gear (14T)	60063P-Centre Front Dogbone(117mm) 2P	60064P-Center Rear Dogbone(79mm) 2P

Spare Parts for on-road Car(D)

60065-Differential gear set	62009-Handle	62013-Body Post 4P	62017-Body Post Mount(F)
			
62018-Body Post Mount(R)	62023-Rear Brace t Mount	67001-Bumper	67002-Bumper Foam Upper Mount
			
67003-Rear Bumper Mount	67004-Bumper Foam	85732-Wheel Rims 2P	67006-Tires w/Foam 2P
			
67007-Wheel complete 2P	67008-Bumper Foam Post 3P		
			

Spare Parts for Rally Car(E)

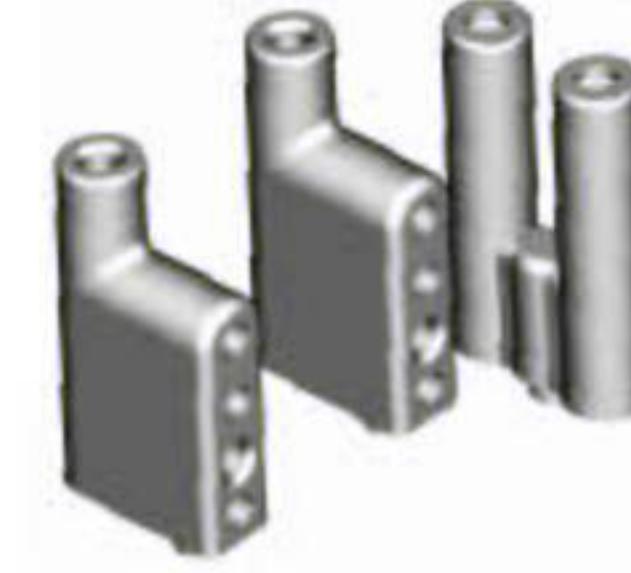
60046-Chassis	60047P-Brake Disc Set	60048-Centre Diff.Mount 2P	60049-Gear(45T)
			
60050-Brake Link 2P	60051-Brake Cam 2P	60052P-Centre Diff.Joint Cups 2P	60053-Brake Cam Bush 2P
			
60054-Center Diff Top Plate	60060-Front Bumper	60061-Clutch Bell Gear (14T)	60063P-Centre Front Dogbone(117mm) 2P
			
60064P-Center Rear Dogbone(79mm) 2P	60065-Differential gear set	62009-Handle	62013-Body Post 4P
			
62017-Body Post Mount(F)	62018-Body Post Mount(R)	62023-Rear Brace t Mount	62052-Front Bumper /connect plate
			
62049-Rear Bumper	62025-Brake cam+Spring+pins+Screw+Washer Set	62019P-Driven Cup 2P	62020P-Brake Cup 2P
			

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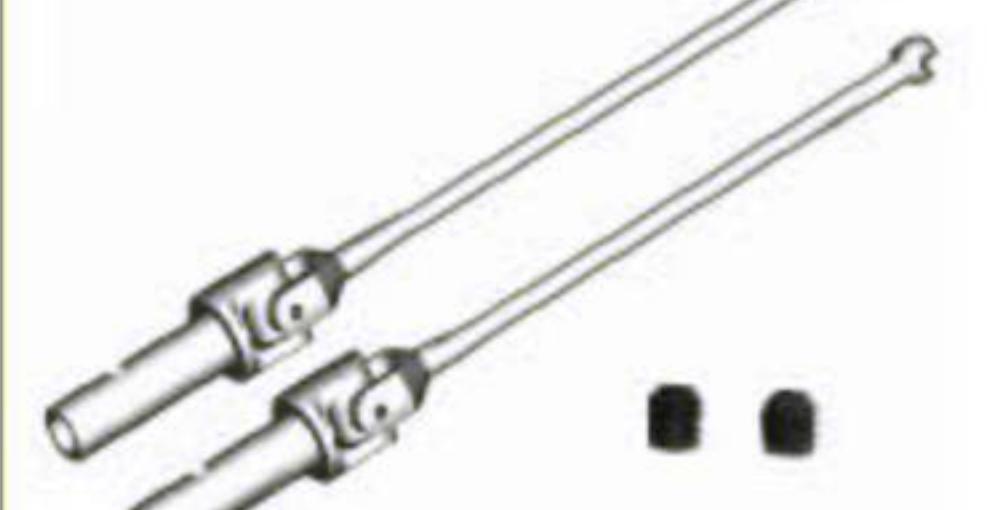
Spare Parts for Rally Car(E)

62053-Tires 2P	85732-Wheel Rims 2P	62054-Wheels Complete 2P	62055-Countersink mechanical screw (3*6) 6P
			

Buggy/ Truck/ Truggy/ Car/ Rally Car (A1A2BCDE) Upgradable Optional

860001-Shock Absorber 2P	860002N-Front Upper Suspension Arm (AL.) 2P	860003N-Front Lower Suspension Arm(AL.) 2P	860004N-Rear Lower Suspension Arm(AL.) 2P
			
860005-Front Shock Tower (AL.)	860006-Rear Shock Tower (AL.)	860007-Front Top Plate (AL.)	860008-Rear Hub Carrier (AL.) 2P
			
860009-Front Wheel Hub Carrier (AL.)	860010-Steering Hub Carrier (AL.)	860011-Radio Plate Post (AL.)	860012-Radio Tray (AL.)
			
860013-Front Brace (AL.)	860014-Rear Brace (AL.)	860015N-Rear Upper Suspension Arm(AL.) 2P	860016N-Front Lower Suspension Holder(AL.)
			

Buggy/ Truck/ Truggy/ Car/ Rally Car (A1A2BCDE) Upgradable Optional

860017-Rear Lower Suspension Holder (AL.)	860018-Front Upper Suspension Holder(AL.)	860019-Universal Drive Joint 2P	860020-Steering/Saver Complete(AL.)
			
122005-Aluminum Engine Mount-2P (AL.)	122006-Alum. Lightweight Flywheel	860021-Centre Diff.Mount (AL.) 2P	860022-Center Diff Top Plate (AL.)
			
		on road Car/Rally Car Buggy/Truggy	on road Car/Rally Car Buggy/Truggy

Upgradable Optional Parts for some Vehicle

860023-Wing Reinforcement Holder	860024-Wing Stay 2P (AL.)	860025-Wing Reinforcement Post (AL.)	860026-Wing Adjustable Mount 2P (AL.)
			
Buggy/Truggy	Buggy/Truggy	Buggy/Truggy	Buggy/Truggy
862001-Body Post(AL.) 4P	862002-Body Post Mount(F) (AL.)	862003-Body Post Mount(R) (AL.)	862004-Rear Brace Mount (AL.)
			
on road Car/Rally Car Truck/Truggy	on road Car/Rally Car Truck/Truggy	on road Car/Rally Car Truck/Truggy	on road Car/Rally Car Truck
860033-Gear(43T) (Steel)			
			
off-road Truck			

Carbon Fibre Color Common Upgradable Optional Parts

60007C-Front Shock Tower	60008C-Rear Shock Tower	60009C-Front Top Plate	60024C-Radio Tray
			

60025C-Battery/Receiver Case	60021C-Gear Box		
			

Common Upgradable Optional for some Vehicle

60060C-Front Bumper (For Buggy only)	62003C-Front Bumper (For Truck only)	62004C-Rear Bumper (For Truck only)	60054C-Center Diff. Top Plate(Truck not included)
			

85732C-Wheel Rims 2P (For Buggy only)	86701C-Wheel Rims 2P (For Truggy only)	85738C-Side Guard(L/R) (For Buggy only)	85737C-Tail Wing (For Buggy only)
			

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Important Safety Precautions

This is a high performance radio controlled model which needs to be operated with caution and common sense. Failure to follow the safety instructions could result in personal injuries and/or property damage.

- 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.
- In the event that the model behaves abnormally, stop running it and check.
- The model is not allowed to be used until all problems have been settled.

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.
- Always run engine with a clean oiled air filter.
- Inspect fuel tank for cracks and/or kinks in silicone tubing. Correct problem if required.
- Inspect tune-pipe for damage; make sure it is well fastened to engine/chassis.
- Operate radio system with fully charged batteries; perform radio frequency/range check.
- Inspect terrain for hard/non-movable objects that may become a hazard for your vehicle.
- Provide adequate clearance between your vehicle and your observers.
- Do not operate in the presence of domestic animals (dogs and/or cats)
- Do not operate vehicle on public roads, or obtain adequate authorisation to permit usage.

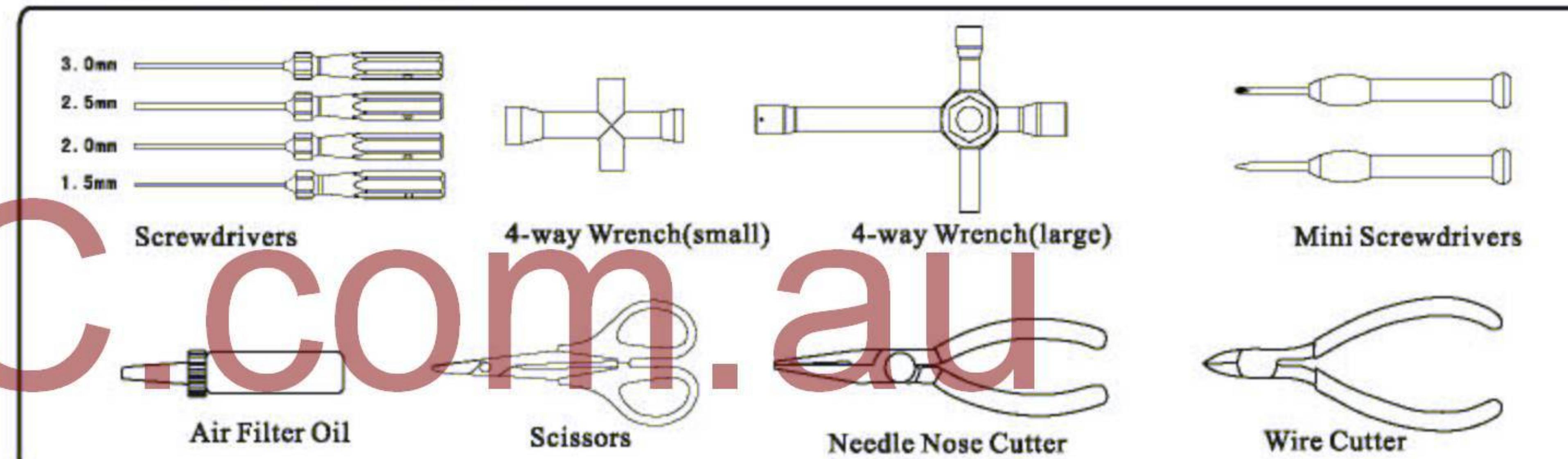
Before assembling or operating your model...

Carefully read and understand all instructions before operating the vehicle. Correct adjustment of high speed needle and idle adjustment are required before operating your vehicle. Refer to carburetor adjustments before operating vehicle. The following items(not included unless specified) are required to operate your vehicle and are available from your model dealer or the local hobby shop.

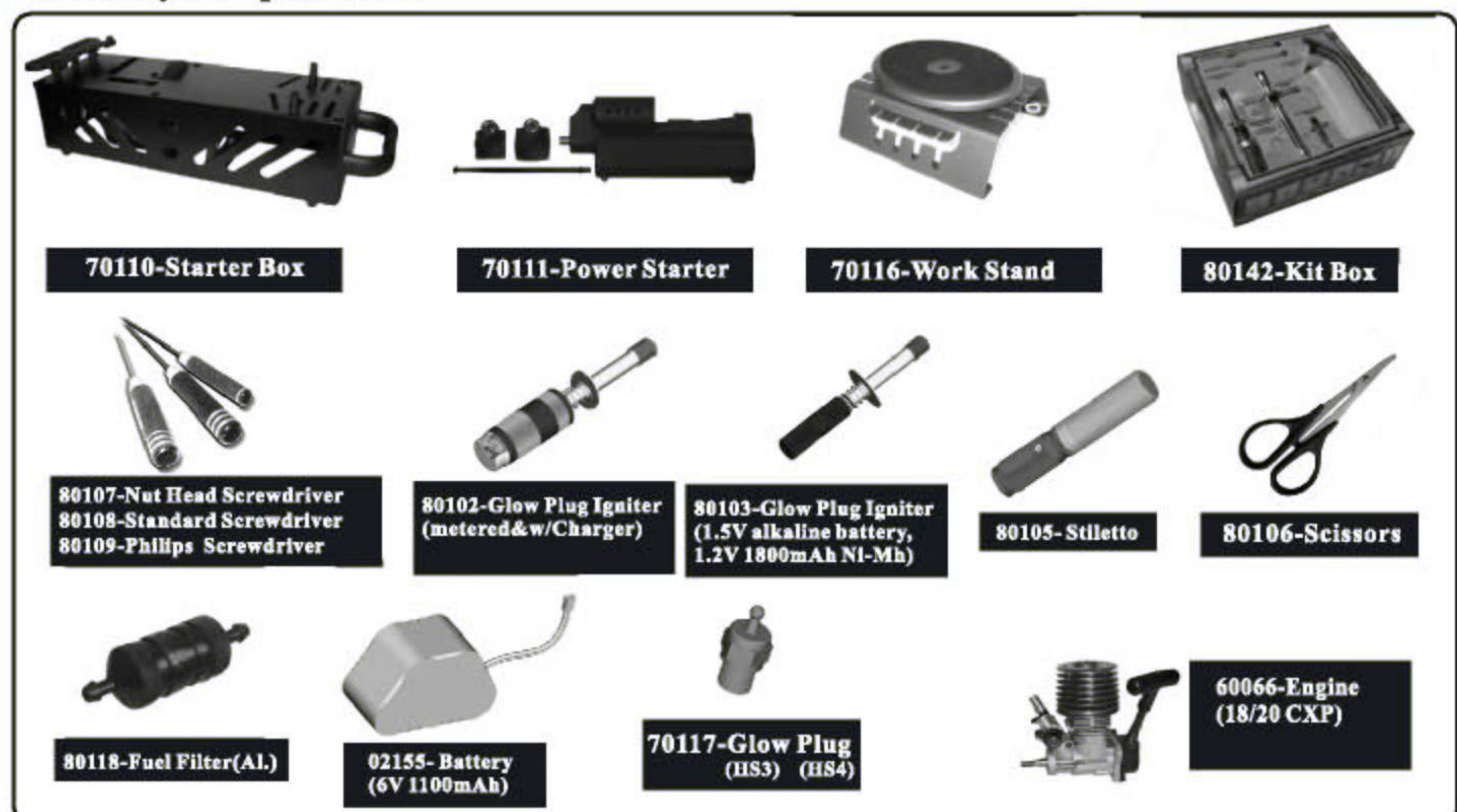
Additional Items For Running Your Model



Tools For Assembling Your Model



The following accessories available from your model dealer are for optional purchase to facilitate your operations.



Use of transmitter to control your vehicle...

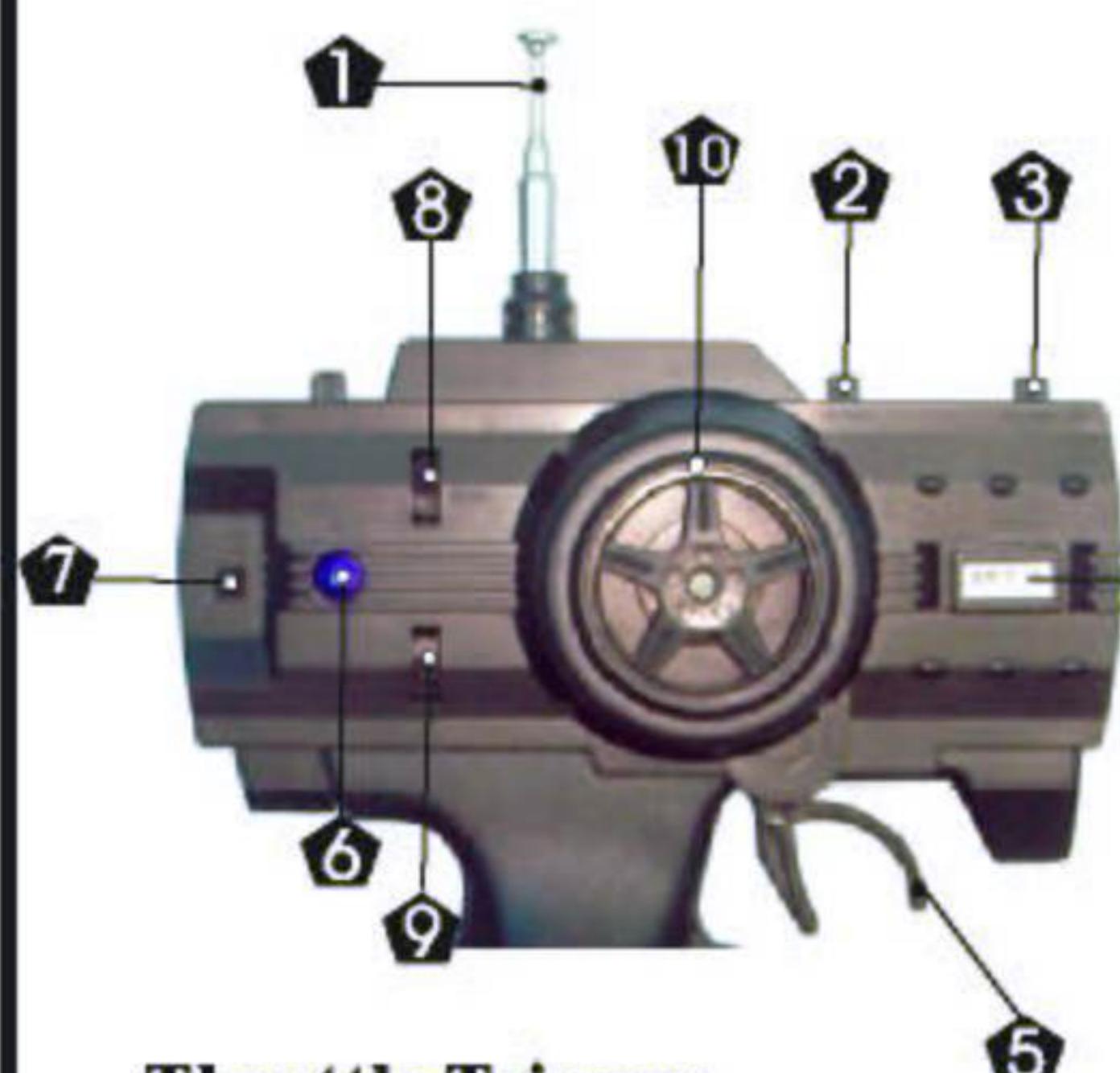
Install the batteries in the transmitter

Insert the eight "AA" batteries into the battery compartment on the bottom of the transmitter.

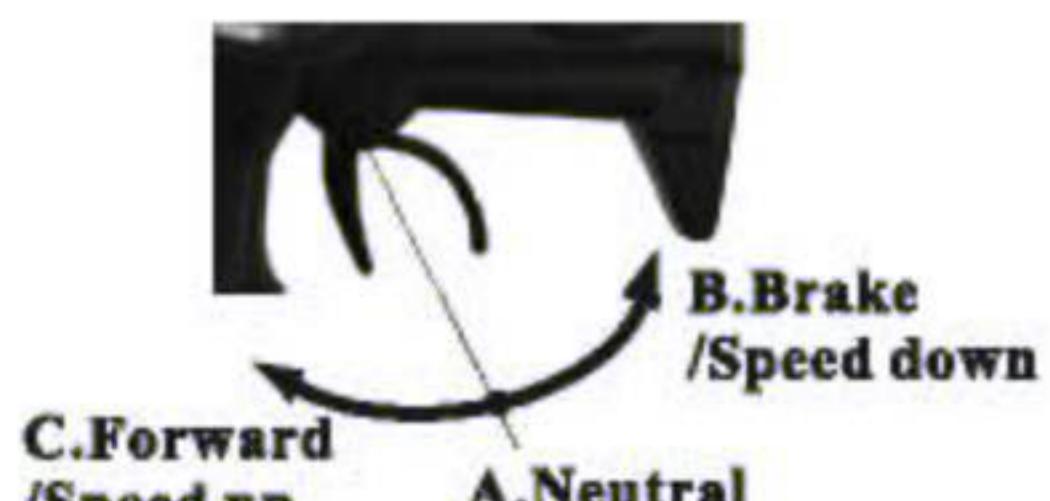


Battery Precautions:

1. In order to keep better performance, we strongly recommend you to use the 1.5V alkaline batteries instead of the 1.2 V chargeable batteries.
2. The batteries may leak in the event that they are installed with wrong polarities.
3. Do not use batteries of different types.
4. Do not mix old and new batteries.
5. Do not leave the batteries if not in use for long periods.



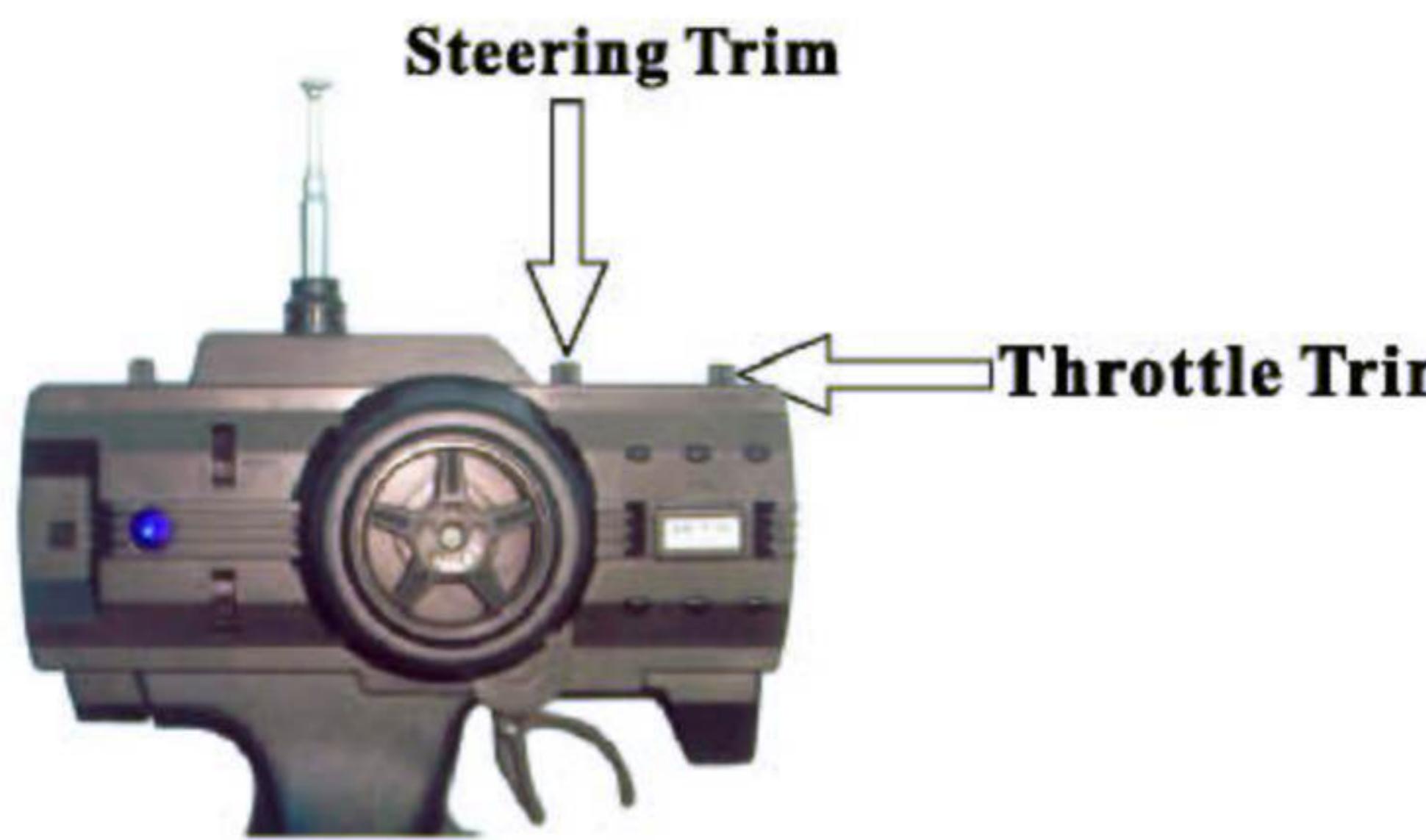
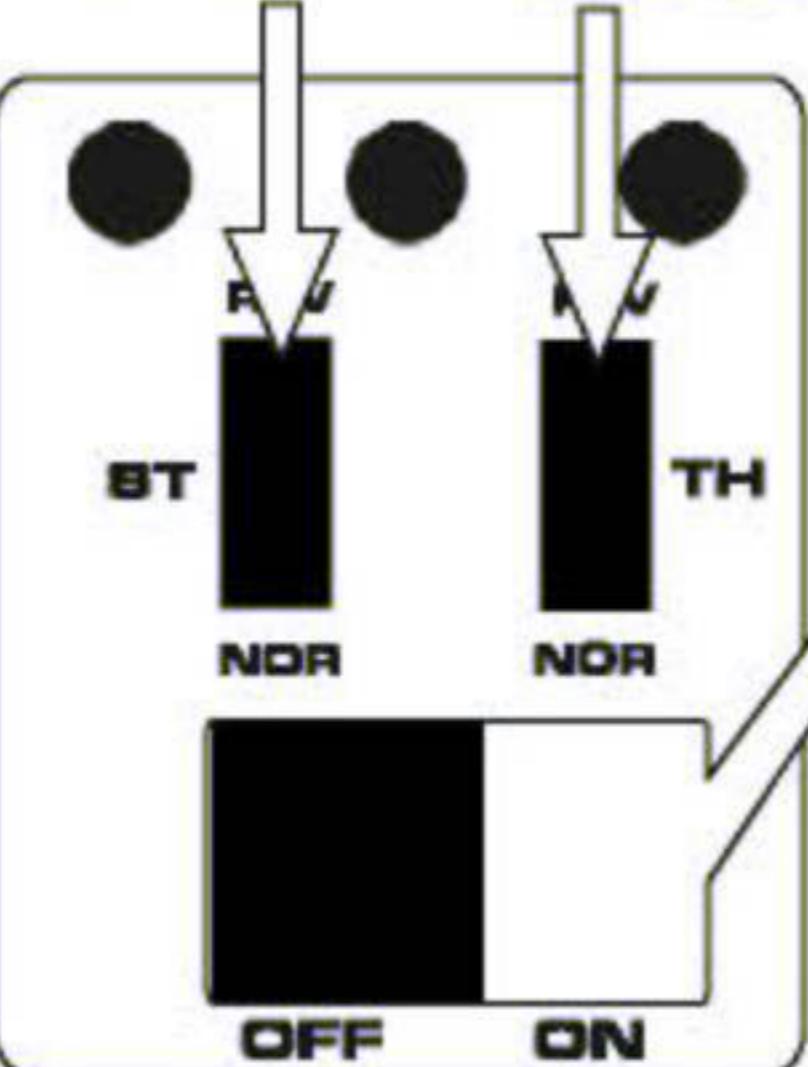
Throttle Trigger



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.

If you are a reverse operator, set the steering/throttle switch to REV. Position first.

Steering Reverse Switch Throttle Reverse Switch



Throttle Trim is used to slightly trim the throttle servo when the trigger is at Neutral position.

Steering Trim is used to slightly trim the front wheels steering.

Note:

If the front wheels are not straight when the trigger is set at Neutral position, you can adjust the steering trim to make them straight.

2-Channel Radio System

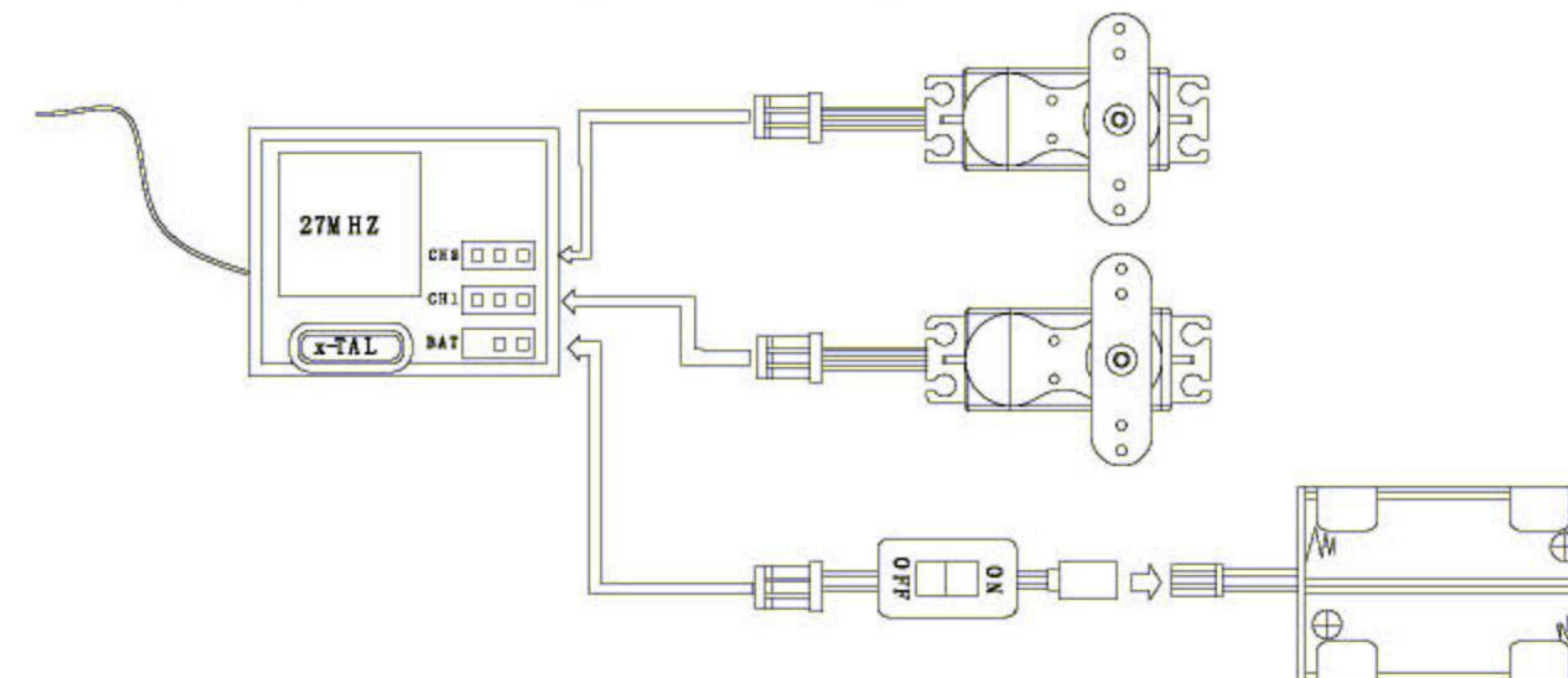
Please read the following instructions before operating your vehicle. Servos must be centered before operating. Performance of vehicle will be affected if this procedure is not completed.

To perform initial servo adjustment, rotate both trim controls on transmitter to center position. Power on the transmitter then power on the receiver (switch is located on top cover) Servos are now centered, linkage adjustment can now be completed.

Steering linkage: With trim knob at center position front wheels should point in a straight ahead. If wheels point in either direction remove control horn from servo and center the wheels (along drive-line axis) replace control horn and observe corrections and re-adjust if necessary. Trim knob and servo are now centered, fine tuning of steering control can now be adjusted with steering trim knob on transmitter.

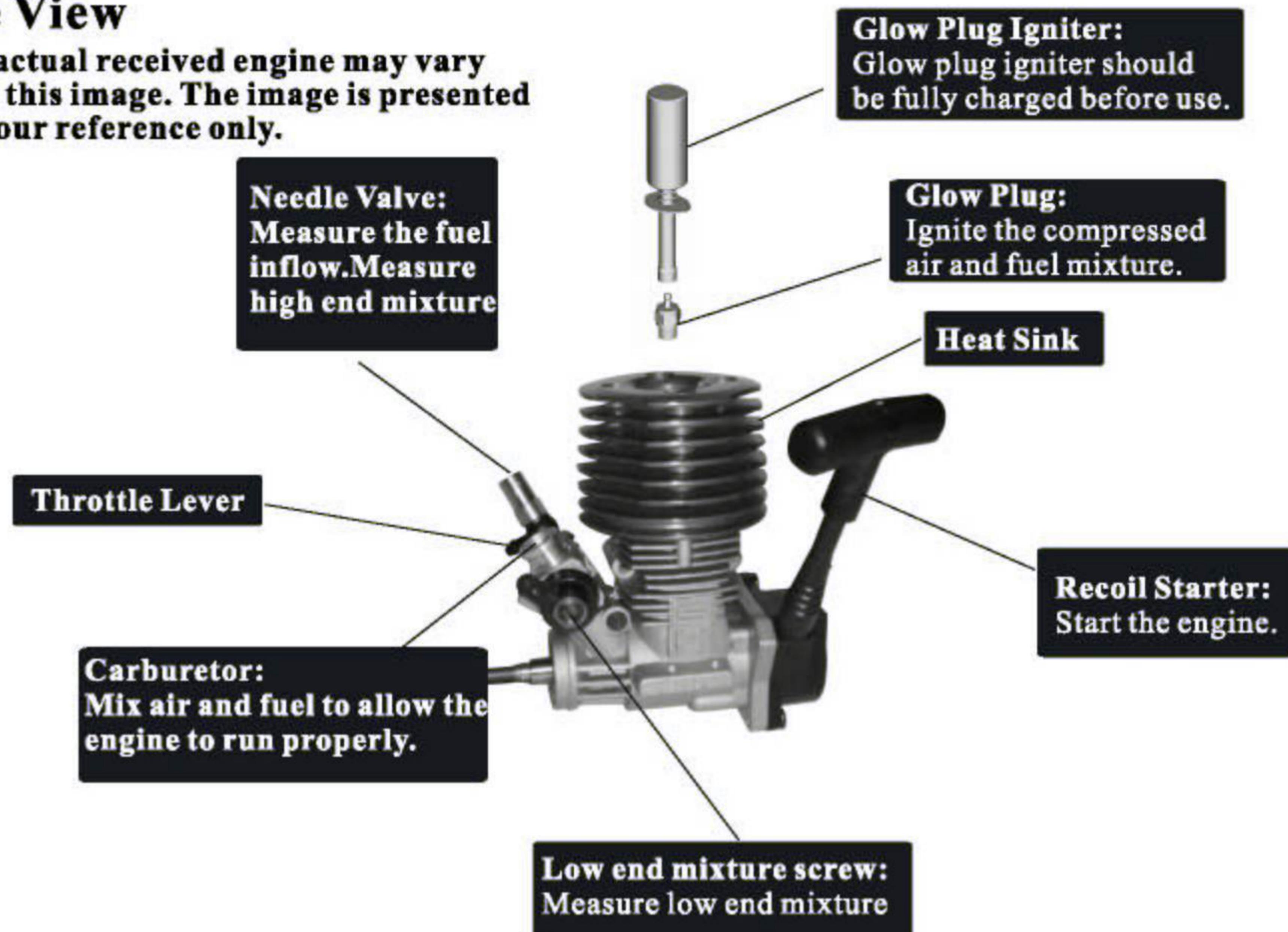
Throttle/Brake linkage: With trim knob at center position, throttle will be closed. If carburetor linkage is open at center position remove control horn from servo and center the linkage, replace control horn and observe corrections and re-adjust if necessary. Trim knob and servo are now centered, fine tuning of throttle control can now be adjusted with steering trim knob on transmitter. Brake adjustment is performed via the thumb wheel on the end of the throttle linkage, brakes should not be applied at neutral position (vehicle must free-wheel when trigger is released)

Before operating your new engine please perform required break in procedure otherwise performance and durability of engine shall be compromised. See page 7 for complete procedure.



Engine View

Note: The actual received engine may vary from this image. The image is presented for your reference only.



Note:

The engine includes many high-precision parts. The original performance may be reduced due to incorrect operation or assembly and disassembly.

Engine Break In

Many hobby type glow engines require a break in period to provide final adjustment of internal parts after manufacturing. This procedure is required and must be completed by you/the user.

To prevent excessive initial wear on internal engine parts a rich air/glow fuel mixture is required to perform your engine break in.

Very important procedure must be followed !!

Break-in period 2 and 1/2 turns from full closed position (4-5 tanks of 10-15% nitro/20% oil content) must be used to perform break in, do not run engine full throttle for long periods during break-in.

Once break-in has been performed lean out engine to best performance (2 turns to 1 and 1/2 turns from full closed position) you must **always** observe a trace amount of oil smoke from tune-pipe, if you do not see any smoke **stop immediately** and re-adjust needle valve till smoke is observed.

Always perform needle valve adjustment first, and then perform idle adjustment on a warmed-up engine.

Environment conditions may require further adjustments.

Clean-out engine and exhaust system by applying high throttle (3/4 throttle) for 2 seconds after adjustment to permit effectiveness of adjustment to be observed.

We **highly recommend** replacing the engine "Glow Plug" (part # 70117) after you have completed the break-in.

It is of normal occurrence during the break-in that minuscule particles of metal adhere to the glow element. The particles of metal isolate the glow element and affect overall engine performance or short engine service time.

You may also be required to replace your glow plug during your break in procedure.

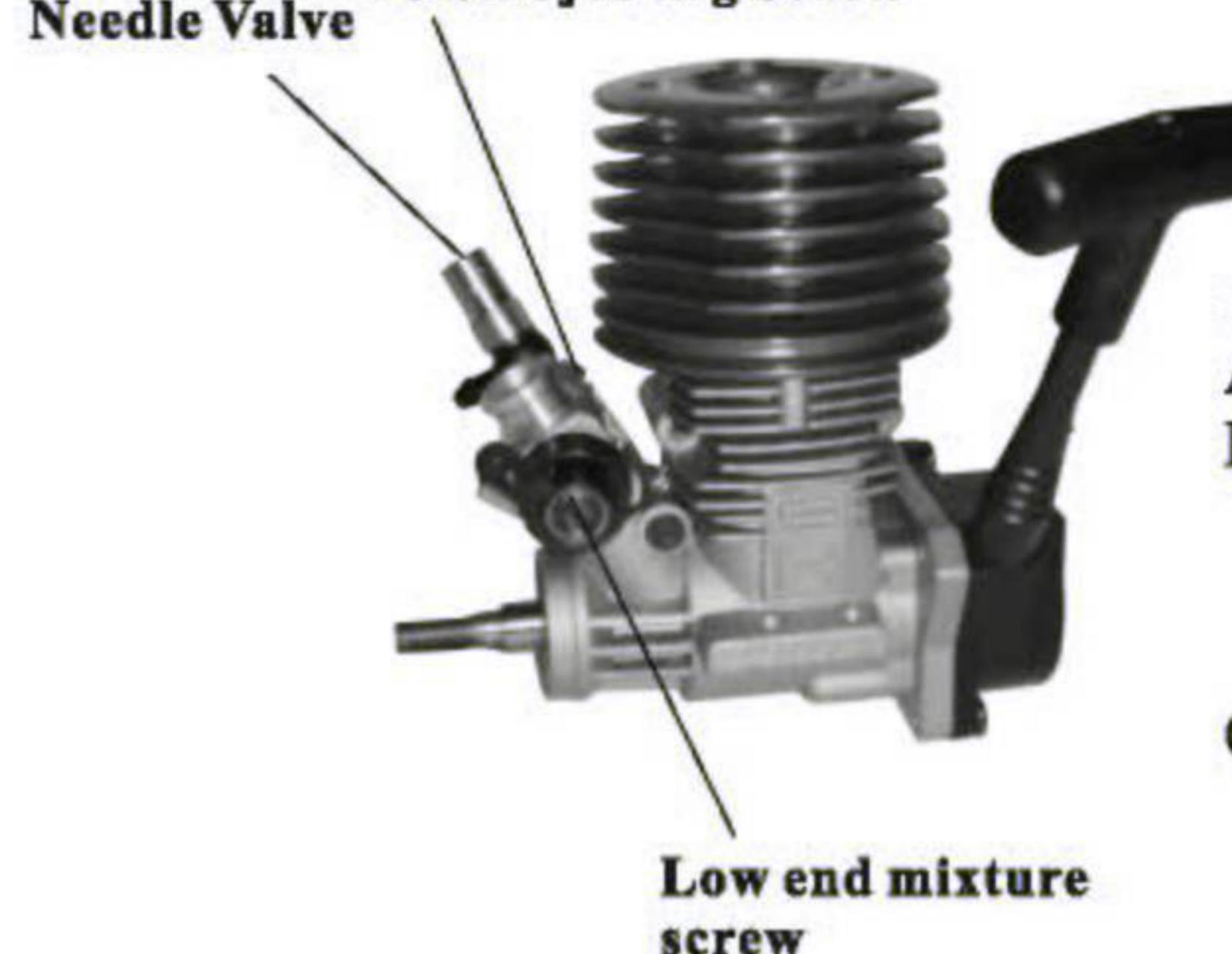
Normal nitro content: Once break-in has been performed 20% - 35%

Lubrication: We highly recommend a Premium glow fuel with a Synthetic/Castor blend of a minimum of 16% and maximum of 20% combined lubricant content.

Engine Adjustment/Maintenance

Engine Adjustment

Idle Adjusting Screw



1. Needle Valve Adjustment

- A. Start the engine to run your car
- B. Keep an eye on the current running speed when the car is running straight with the throttle control set to High. The speed will go up when you screw in the needle valve at an angle of 10 or 20 degrees.
- C. When continuing to screw the needle valve further in, the engine will overheat and subject to damage. If it is the case, immediately unscrew the needle valve at an angle of 10 or 20 degrees to allow the engine to return to normal running.

Acceleration from idle position.

Verify engine performance after start up. Pay close attention to exhaust smoke and engine sound.

Slow engine response is due to an over rich condition. Lots of smoke and popping sound from exhaust are observed.

Hesitation from idle to mid throttle is due to a lean condition. Almost no visible smoke is observed and engine may quit for no apparent reason.

Air and fuel mixture is too heavy. Screw in the needle valve at the angle of 30 degrees. (Clockwise)

Air and fuel mixture is too light. Unscrew in the needle valve at the angle of 30 degrees. (Anti-clockwise)

2. Low end Adjusting Screw

Low end adjusting screw is used to trim the air and fuel mixture to flow into the carburetor.

3. Idle Adjusting Screw

Idle adjusting screw is used to measure the air and fuel mixture to flow into the carburetor when the engine is at Idle position.

Engine Maintenance

1. Empty fuel tank and fuel lines before storing your vehicle.
2. Use premium "After Run Oil" this lubricant is utilised for storing of your engine Observe manufacturers instructions.
3. Remove all dirt and debris from vehicle with small brush (tooth brush) and/or with compressed air (observe proper personal security when operating air equipment)
4. Inspect and adjust all moving parts for excessive play, if adjustment cannot remove all excessive play observe part integrity and replace if required.
5. Proper lubrication of all bearings and moving mechanism is necessary for proper operation.
6. Disconnect and inspect batteries for leakage, recharge as required, do not store vehicle with batteries in unit for prolonged periods.
7. Operating radio controlled devices in wet/damp conditions is not suggested, vehicle may lose traction abruptly, and vehicle may observe water infiltration in receiver compartment or in servos and loss of control of vehicle is imminent.

Troubleshooting no-start condition and engine performance.**Probable causes****The engine is flooded.****Solutions**

Remove glow plug. Crank flooded engine several times to evacuate excess fuel. Do not place yourself over the glow plug hole, fuel may splash or flow when cranking.

Engine can be cranked but will not start.**Is glow fuel reaching carburetor?**

Add 2-3 drops of glow fuel directly in carburetor.

**Is idle adjustment set properly?
Remove air filter to verify.**

Adjust opening with screwdriver. (1mm or 0.33")
Replace air filter before starting.

Verify if glow plug is working.

If element does not glow verify glow stick.
If in doubt replace glow plug.

Miscellaneous**Cold outside temperature.**

Screw in the needle valve at 60 degrees, and warm up the engine.

Engine is overheating.

Permit engine to cool down then gently unscrew the needle valve at 60 degrees and re-start up the engine.

Carburetor is blocked dirty.

Clean with automotive parts cleaner.

Air filter is blocking air passage.

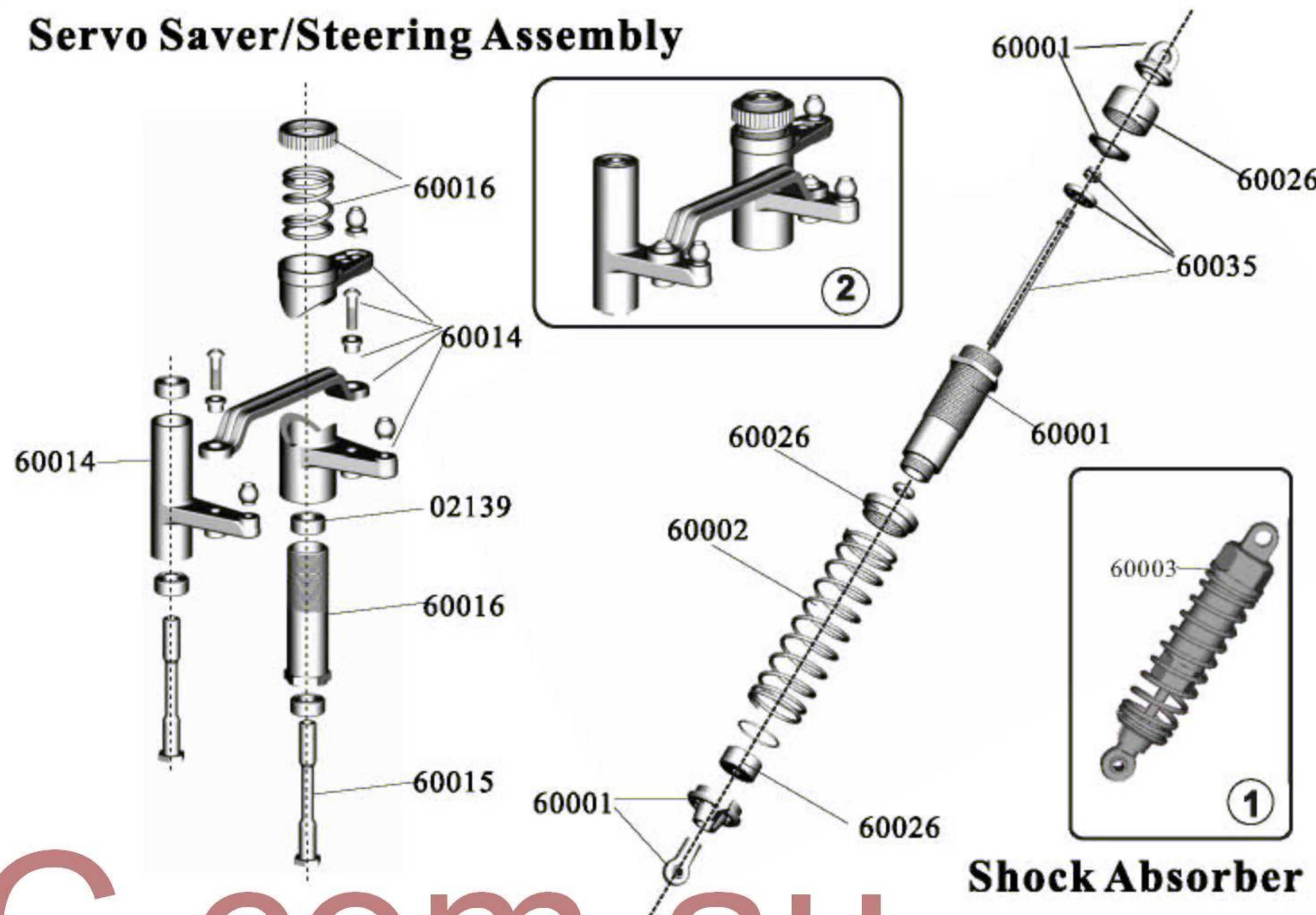
Clean air filter element or replace air filter element.

Engine performance is affected.

Verify fuel lines, glow plug, adjustments and correct.

TROUBLESHOOTING LIST

ISSUES	REASONS	SOLUTIONS
THE ENGINE FAILS TO START.	1.The fuel tank is empty or the carburetor is not primed properly. 2.The glow plug is bad or the batteries are dead. 3.The fuel lines, the air filter,or the muffler is clogged. 4.The engine is flooded. 5.The carburetor is not adjusted properly. 6.The servo linkage is not adjusted properly.	1.Fill the fuel tank up or prime the throttle. 2.Replace the glow plug or charge the batteries. 3.Clean or replace the clogged part(s). 4.Remove the glow plug and discharge fuel. 5.Set the Needle Valve/Low End Mixture Screw and the Idle Adjusting Screw to the Original position. 6.Set the servo to Neutral then re-adjust it.
THE ENGINE CAN START BUT STALL IMMEDIATELY.	1.The fuel tank is empty. 2.The fuel lines, the air filter,or the muffler is clogged. 3.The carburetor is not adjusted properly. 4.The engine is flooded.	1.Fill up the fuel tank. 2.Clean or replace the clogged part(s). 3.Re-adjust Idle Adjusting Screw and Needle Valve/Low End Mixture Screw. 4.Allow the engine to thoroughly cool down and turn the Needle Valve open at the angle of 30 degrees .
POOR REACTION RESPONSE ON THE ENGINE.	1.The carburetor is not adjusted properly. 2.Low fuel pressure level was found on the muffler.	1.Re-adjust Needle Valve/Low End Mixture Screw. 2.Install the pressure line from the muffler to the fuel tank correctly.
THE VEHICLE BECOMES DIFFICULT TO CONTROL.	1.The batteries on the transmitter/receiver are weak. 2.Radio antenna performs bad receptions. 3.The servo linkage is not adjusted properly.	1.Replace or charge the batteries. 2.Extend the transmitter antenna fully to obtain better receptions. 3.Set the servo to Neutral then re-adjust it.

Servo Saver/Steering Assembly**Shock Absorber****Engine Complete with air filter and Exhaust/Tune- Pipe**