INSTRUCTION MANUAL

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

A. Off- road Buggy

B. Off -road Truck

C. Extra length Truck

D. Off -road Truggy

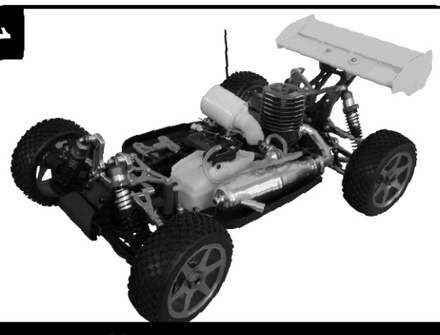
E. Off -road ATV

F. ON-road Car

G. Rally Monster

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.



A.off-road Buggy

1.Four Wheel Straight Shaft Drive System
2.Double-head Assembly Lever With Reverse Teeth
3.High Quality Main Gear/ Diff. Pinons
4.Powerful Universal Joint Cup/High Quality Ball Bearings
5.New Designed Durable Off Road Diamond Tread Tires& Shiny Wheel Rims
6. Aluminum Chassis &Anodized Aluminum Radio Tray/Top Steering Plate/Shock Tower
7.Disc Brake System Provides Quick Brake Response
8. Extra Large Capacity Leak Proof Fuel Tank With Overflow Pipe And Spring Loaded Fill Cover For Quick Re-fueling
9. 6mm Rear Anti Roll Bar & Compact Battery /Receiver Box
10. Oil Filled Full Aluminum Shock Absorbers
11. Polished Aluminum Exhaust Pipe/Manifold
12 . Shiny Off Road Wing

SPECIFICATIONS:

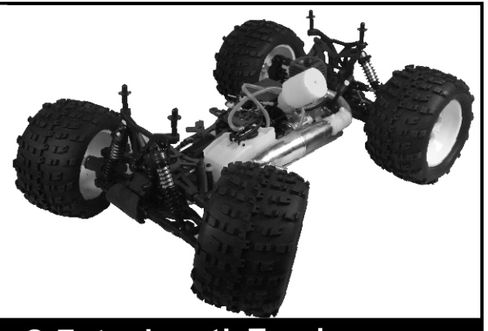
Length:490mm Width:305mm
Height:190mm
Wheelbase:320-325mm
Ground Clearance:30mm
Gear Ratio:11.71:1
Wheel Track:258(F) 261(R)
Diameter of Wheel:115mm
Width of Wheel:42mm
Engine:21cxp engine recommended

B.off-road Truck

1.Four wheel drive system
2.Enhanced Suspension arm with adjustable width
3.High quality main and diff. gears
4.6061/T6 anodized aluminium radio tray and chassis
5.Solid universal joint cups/High quality ball bearings complete
6.Soild wheel rims and extra large v-tread tyres provide long service period.
7.Disc brake system provides quick brake response
8. Extra large leak proof fuel tank with spring loaded fill cover and a long fuel pipe for quick re-fueling.
9. High flow duty foam air filter with shiny air filter cover
10. 6mm rear sway bar & compact battery/receiver box

SPECIFICATIONS:

Length:490mm Width:400mm
Height:260mm
Wheelbase:320-330mm
Ground Clearance:78mm
Gear Ratio:17.9:1
Wheel Track:300mm(F) 305mm(R)
Diameter of Wheel:155mm
Width of Wheel:89mm
Engine:21cxp engine recommended

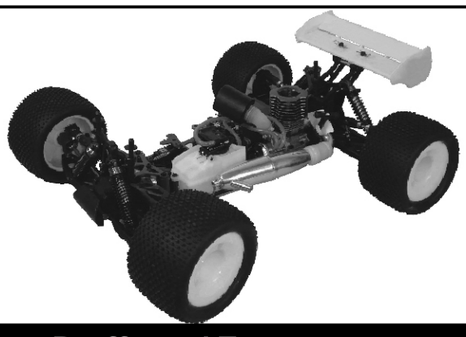


C.Extra length Truck

1.Four wheel drive system
2.Enhanced Suspension arm with adjustable width
3.High quality main and diff. gears
4.6061/T6 anodized aluminum radio tray and chassis
5.Solid universal joint cups/High quality ball bearings complete
6.Soild wheel rims and extra large knobby off road tires provide long service period.
7.Disc brake system provides quick brake response
8. Extra large leak proof fuel tank with spring loaded fill cover and a long fuel pipe for quick re-fueling.
9. High flow duty foam air filter with shiny air filter cover
10. Compact battery/receiver box/Polished Metal Wheel Hex. Enhanced Mount

SPECIFICATIONS:

Length:515mm Width:412mm
Height:265mm
Wheelbase:320-330mm
Ground Clearance:76mm
Gear Ratio:17.7:1
Wheel Track:304mm(F) 308mm(R)
Diameter of Wheel:150mm
Width of Wheel:102mm
Engine:21cxp engine recommended

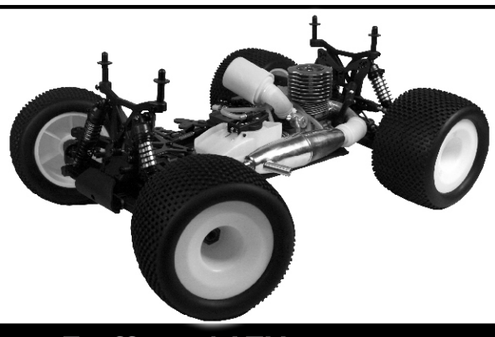


D.off-road Truggy

1.Four wheel drive system
2.Enhanced Suspension arm with adjustable width
3.High quality main and diff. gears
4.6061/T6 anodized aluminum radio tray and chassis
5.Solid universal joint cups/High quality ball bearings complete
6.Dish wheel rims and extra large knobby off road tires provide long service period.
7.Disc brake system provides quick brake response
8. Extra large leak proof fuel tank with spring loaded fill cover and a long fuel pipe for quick re-fueling.
9. High flow duty foam air filter with anodized aluminum capped cover
10. Polished exhaust pipe and manifold

SPECIFICATIONS:

Length:530mm Width:410mm
Height:205mm
Wheelbase:360-365mm
Ground Clearance:55mm
Gear Ratio:17.5:1
Wheel Track:360mm
Diameter of Wheel:120mm
Width of Wheel:82mm
Engine:21cxp engine recommended



E.off-road ATV

1.Four wheel drive system
2.Enhanced Suspension arm with adjustable width
3.High quality main and diff. gears
4.6061/T6 anodized aluminum radio tray and chassis
5.Solid universal joint cups/High quality ball bearings complete
6.Soild wheel rims and extra large knobby off road tires provide long service period.
7.Disc brake system provides quick brake response
8. Extra large leak proof fuel tank with spring loaded fill cover and a long fuel pipe for quick re-fueling.
9. High flow duty foam air filter with shiny air filter cover
10. Compact battery/receiver box
11. Equipped with fashionable off road ATV rider

SPECIFICATIONS:

Length:486mm Width:390mm
Height:260mm
Wheelbase:320-330mm
Ground Clearance:70mm
Gear Ratio:17.9:1
Wheel Track:296(F) 298(R)
Diameter of Wheel:120mm
Width of Wheel:82mm
Engine:21cxp engine recommended

F.on-road Car

1.Four Wheel Straight Shaft Drive System
2.Powerful Front/Rear Hub Carriers
3.High Quality Main Gear/ Diff. Pinons
4.Powerful Universal Joint Cup/High Quality Ball Bearings
5.New Designed Durable On Road Racing Tires
6. Aluminum Chassis &Anodized Aluminum Radio Tray/Top Steering Plate/Shock Tower
7.Disc Brake System Provides Quick Brake Response
8. Extra Large Capacity Leak Proof Fuel Tank With Overflow Pipe And Spring Loaded Fill Cover For Quick Re-fueling
9. 6mm Rear Anti Roll Bar & Compact Battery /Receiver Box
10. Oil Filled Full Aluminum Shock Absorbers
11. Polished Aluminum Exhaust Pipe/Manifold
12 . Extra Large Front Bumper Foam
13. Polished Aluminum Front/Rear Brace

SPECIFICATIONS:

Length:490mm Width:305mm
Height:190mm
Wheelbase:320-325mm
Ground Clearance:30mm
Gear Ratio:11.71:1
Wheel Track:258(F) 261(R)
Diameter of Wheel:115mm
Width of Wheel:42mm
Engine:21cxp engine recommended

The following accessaries are for optional purchase to faciliate your operation.

1.Four Wheel Straight Shaft Drive System
2.Double-head Assembly Lever With Reverse Teeth
3.High Quality Main Gear/ Diff. Pinons
4.Powerful Universal Joint Cup/High Quality Ball Bearings
5.New Designed Durable Off Road Diamond Tread Tires& Shiny Wheel Rims
6. Aluminum Chassis &Anodized Aluminum Radio Tray/Top Steering Plate/Shock Tower
7.Disc Brake System Provides Quick Brake Response
8. Extra Large Capacity Leak Proof Fuel Tank With Overflow Pipe And Spring Loaded Fill Cover For Quick Re-fueling
9. 6mm Rear Anti Roll Bar & Compact Battery /Receiver Box
10. Oil Filled Full Aluminum Shock Absorbers
11. Polished Aluminum Exhaust Pipe/Manifold

SPECIFICATIONS:

Length:540mm
Width:305mm
Height:190mm
Wheelbase:320-325mm
Ground Clearance:30mm
Gear Ratio:11.71:1
Wheel Track:258(F) 261(R)
Diameter of Wheel:115mm
Width of Wheel:42mm
Engine:21cxp engine recommended

The following items (not supplied in this kit unless specified) are required for assemblying your vehicle and are available in the local hobby shops. Please read this manual compelely before assemblying or operating your vehicle.

Note: The engine should be adjusted properly in IDLE mode before operating your vehicle.Otherwise, the life and performance will be affected.

The following accessaries are for optional purchase to faciliate your operation.


70110-Starter Box

70111-Power Starter
11011-Drill Holder A (small)
11012-Drill Holder B (big)


70116-Works Stand


80142-Start Kit Box


80107-Nut Head Screwdriver
80109-Philips Screwdriver
80108-Standard Screwdriver


80102-Glow Plug Igniter (metered &w/Charger)


80103-Glow Plug Igniter (1.5V alkaline battery, 1.2V 1800mAh Ni-Mh)


80105-Shell Reamer


80106-Scissors


80118-Fuel Filter(Al.)


80215-Cylinder Valve Lock Set

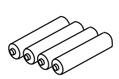

70117-Glow Plug
(No.3 Hot)
(No.4 Medium)

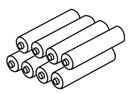

80212-Spring Clasp Set


80211-Ball head screwdrivers (2mm,2.5mm,3mm)


80213-Socket head screwdrivers (5mm,5.5mm,7mm,8mm)

Ni-Ca batteries 6V 500mA
or AA alkaline dry batteries


(For The Vehicle)


(For The Transmitter)


Glow Plug Ignitor


Fuel Filler

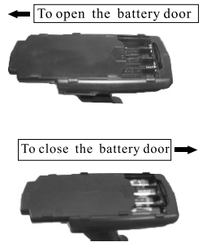

Fuel Bottle

Note:Actual received tools may vary from the images.

Use of transmitter to control your vehicle...

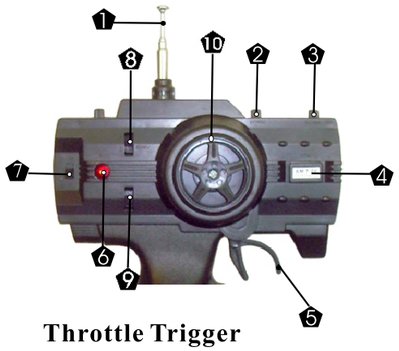
Install the batteries in the transmitter

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



Battery Precaustions:

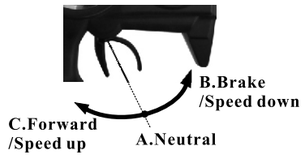
1.In order to keep better performance, we strongly recommend you to use the 1.5V alkaline batteries instead of the 1.2 V chargeable batteries.
2.The batteries may leak in the event that they are installed with wrong polarities.
3.Do not use batteries of different types.
4.Do not mix old and new batteries.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



The function switches on the transmitter

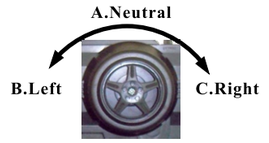
1.Antenna
2.Steering Trim
3.Throttle Trim
4.Crystal
5.Throttle Trigger
6.Working Indicator
7.Power Switch
8.Steering Reverse Switch
9.Throttle Reverse Switch
10.Steering Wheel

Throttle Trigger

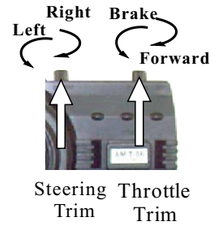


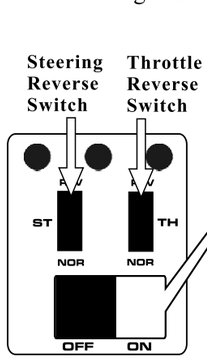
1.Push the trigger forwards to allow the vehicle to speed down to brake.
2.Pull the trigger backwards to allow the vehicle to go forward and speed up.

Steering Wheel

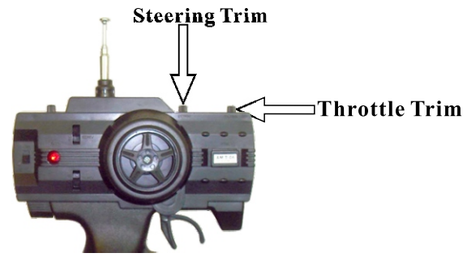


Turn the steering wheel to the left or right to let the vehicle turn left or right.

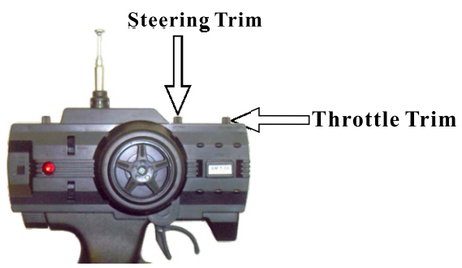




If you are a reverse operator, set the steering/throttle switch to REV. Position first.



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

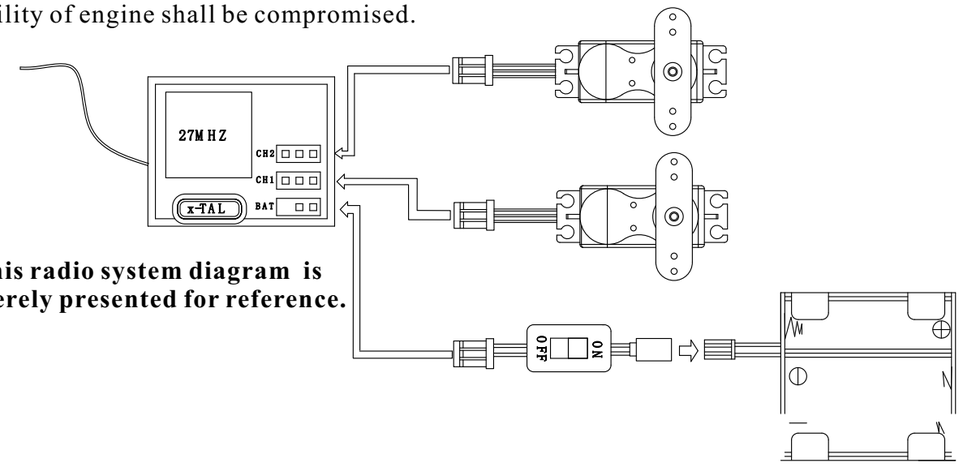


Throttle Trim is used to slightly trim the throttle servo when the trigger is at Neutral position.

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 postion,you can adjust the steering trim to make them straight.

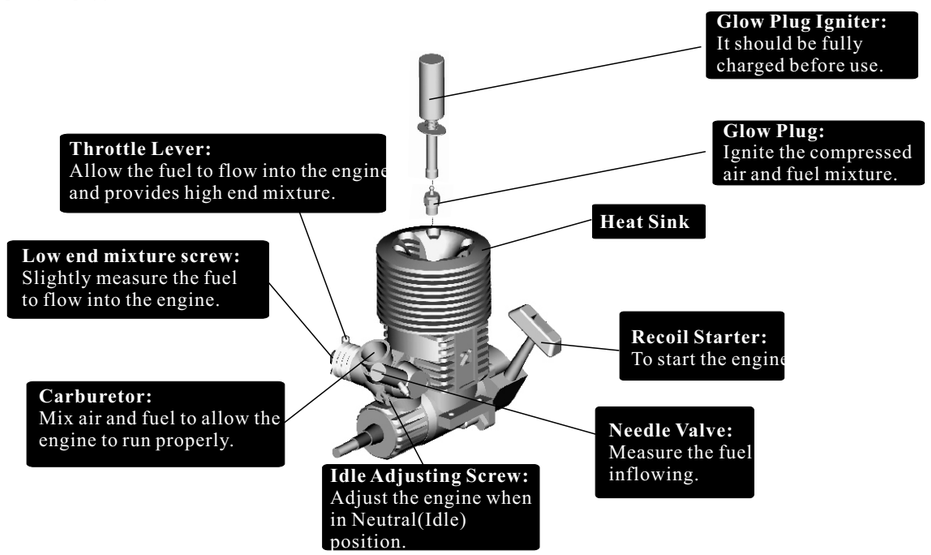
2-Channel Radio System

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.



Note: This radio system diagram is merely presented for reference.

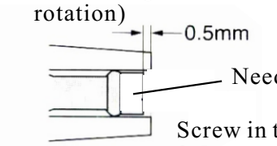
Engine View



Adjust the needle valve

❶ Gently screw in the needle valve (cloclwise rotation)

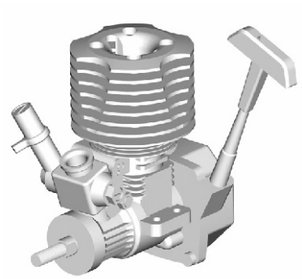
❷ Refer servicing to the instruction manual unscrewing the needle valve(Anti-clockwise rotation)



Screw in the Needle Valve about 0.5 mm as shown in the figure.

Check the following before running your model.

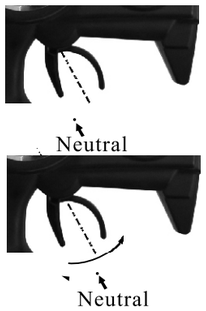
- ☐ Ensure all screws are securely tightened.
- ☐ Ensure all moving parts move without binding. Are they greased for non-binding movement?
- ☐ Install an air filter . Ensure it is clean and not clogged.
- ☐ Ensure the fuel lining is airtight and has no cracks. Ensure it is not clogged.
- ☐ Ensure the muffler and exhaust are damage-free.
- ☐ Ensure the radio batteries are fresh. Are they securely installed?
- ☐ Ensure servos and linkages move without binding.
- ☐ Ensure the area of operation is safe.
- ☐ Ensure nobody is on your frequency at the same time.



● BREAK IN

⚠Caution Running the engine in high rpm is not allowed. It may severely damage your engine.

1 Follow the instructions starting the engine.
►**Test your car running response with your transmitter**
Push the throttle trigger forwards to speed down and brake.
Pull the throttle trigger backwards to speed up.



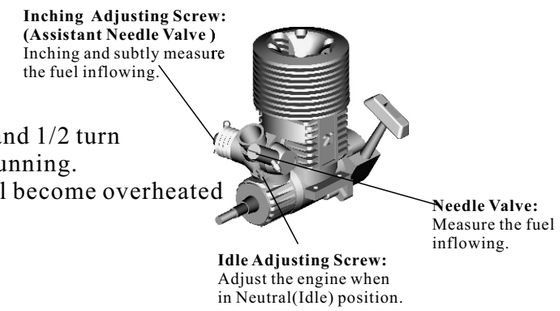
2 Idle Adjusting Screw Adjustment
►For the inertia from great movements , the car will not stop running immediately as soon as the throttle control is released and set to Neutral position.

3 Performthe engine Break-In process. Do not screw in the needle valve further when the engine becomes overheated.

The engine stalls. ▼ Screw in 1/8~1/4 turn
The car rolls forward. ▼ Unscrew in 1/8~1/4 turn

4 Allow the engine to consume 2-3 tanks of fuel to complete Break-in process.

5 The needle valve should be unscrewed between 1 and 1/2 turn from its Close position to provide engine normal running.
In the event that you screw it further in, engine will become overheated and normal performance will be compromised.



Engine Adjustment

● Follow the instruction 1 and 2 once the Break-in process is completed.

1 Needle Valve Adjustment(Maximum Rpm Adjustment)

❶ Start the engine to run your buggy.

❷ Measure 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.

❸ Once you continue to screw the needle valve further in, the engine will become overheated 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 response.

2 Measure the fuel and air mixture by the inching adjusting screw

► **To accelerate from Low Speed 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. → Air and fuel mixture is too heavy. Screw in the needle valve at the angle of 30 degrees.(Clockwise)
- Hesitation from idle to mid throttle is due too a lean condition. Almost no visible smoke is observed and engine may quit for no apparent reason. → Air and fuel mixture is too light. Unscrew in the needle valve at the angle of 30 degrees. (Anti-clockwise)

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.Correct 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 be subject to water penetration in receiver compartment or in servos and loss of control of vehicle is imminent.

Engine Start Troubleshooting

If the engine fails to be started after the normal procedures are performed, please take it seriously and get down to the following:

- Verify that the approx. 0.5cc of fuel has flowed into the engine. The fuel that flowed into the engine should not be too heavy .Otherwise, the engine will become flooded and unable to function.

- Verify that a full-charged glow plug igniter is used. (If the glow plug can be excited and its pin subjects to Turn red,it indicates that the glow plug igniter is of enough power.Please immediately charge it if necessary)

Troubleshooting no-start condition and engine performance.

Probable causes	Solutions
The engine is flooded.	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

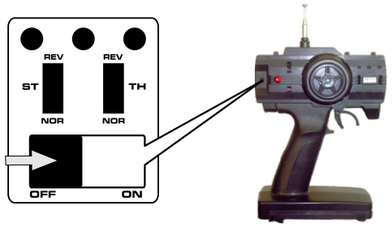
Cold outside temperature.	Screw in the needle valve at 60 degrees,and warm up the engine.
Engine is overheating.	Permit engine to cool down then gently unscrew the needle valve at 60 degrees and re-start up the engine.
Carburetor is blocked dirty.	Clean with automotive parts cleaner.
Air filter is blocking 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.

Please check your model before driving each time.

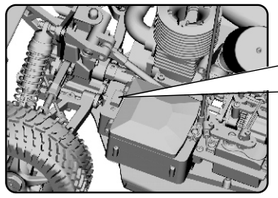
1 Transmitter Switches



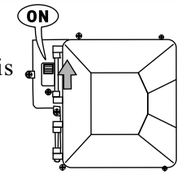
⚠Caution!

- Make sure the antenna is fixed tightly. Otherwise, the transmitter may be out of control.Please extend the antenna fully when using.

2 Chassis Switch



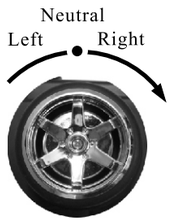
- Turn on the chassis switch.

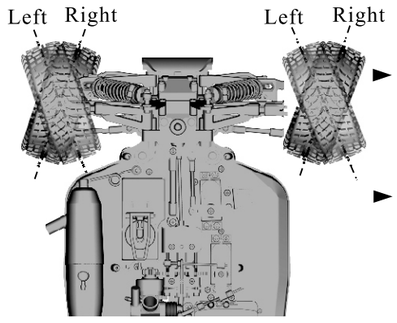


3 Check Steering Performance

- Gently lift up the front wheels while adjusting the steering trim.

- Operate the steering wheel to check if the front wheels move correctly.

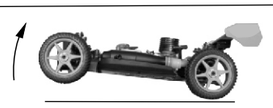


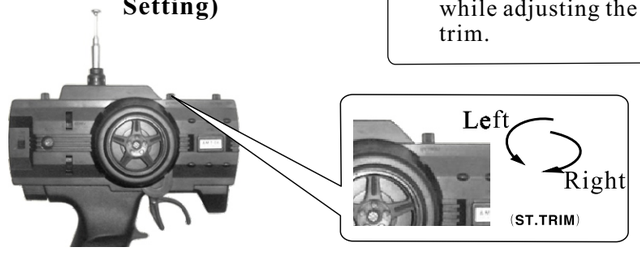


- The front wheel movement is controlled by the steering wheel.
  For instance: If moving the steering wheel to the left, the vehicle front wheels will also turn left.
- When the moving direction of the wheel is opposite to the above mentioned.
  Change the Steering Reverse Switch position.

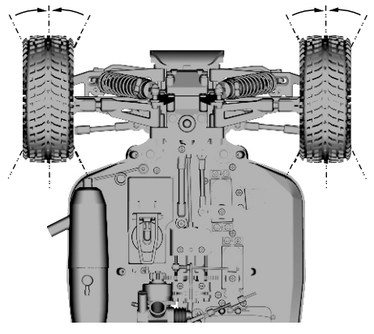
4 Steering (Steering Trim Setting)

- Gently lift up the front wheels while adjusting the steering trim.

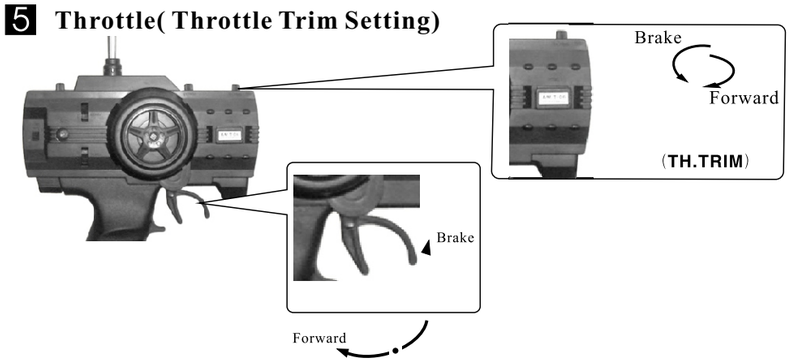




- Gently adjust the steering trim in case that the front wheels fail to remain aligned when the steering wheel is set at Neutral position.
- Re-adjust when running.



5 Throttle(Throttle Trim Setting)



Gently adjust the throttle trim to permit your car to brake or go forwards slightly.

Important Safety Information

- Always run your vehicle after the shield shell is mounted.
- Do not abruptly alter the speed during running.
- Do not run your vehicle around crowded people.
- 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.
- Do not drink fuel or allow it to get into your eyes.
  Store fuel in cool, dry and dark places away from CHILD!
- Tighten the cap of the fuel bottle when not in use.
- 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 burn, do not touch the engine and muffler immediately as soon as they are stopped running.
- Always check transmitter battery power.You may lose of control of your model due to low battery level.
- Never operate your model at the same frequency with someone else. Failure to do so will casue singal confusion or even accidents.
- 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.
- Use the neutral cleaner and soft clothes to clean the model surface.

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.

To maintain and clean your Vehicle after a long time running:

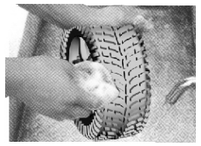
The body surface is easy to become dirty after used for a long period of time.
You are required to maintain and clean your buggy frequently to keep performance and good appearance.

CLEAN SOLVENTS/TOOLS
The following are recommened to clean your buggy.
1. Neutral Cleaner
2. Alcohol
3. Lubricants such as WD-40 etc.
4. Cleaning Air Ball
5. Sponge
6. Soft Dry Cloth or Brush

■ To clean the body and tires

Use the neutral cleanser and the soft sponge to cleanse and wipe off dusts on the panel carefully and do not damage the decals on the surface.

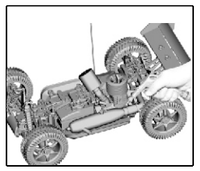
The strong cleanser or alcohol is not allowed to clean the panel. Otherwise, the panel colour may fade. Please use the neutral cleanser.



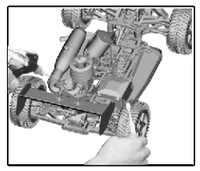
Use the household sponges or the soft cloth and the brush to clean the tires.

Check and test the tires carefully after rough driving.
Stick the instant adhesive if the rubbers on it peel away.

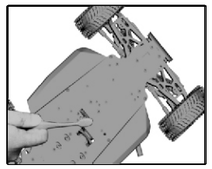
■ To clean the chassis



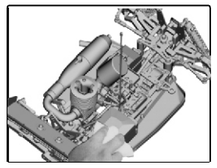
Use the recommended sprayer to clean the dust on the surface after this model drives a long time.



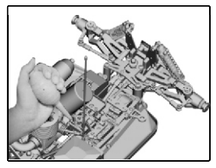
Use the cleaning spray or the cotton swob or the teeth brush dipped into with a few alcohol to clean the spotted place. Spray off water drops with the sprayer after cleaning.



Use the teeth brush to cleanse the dirty corners on the chassis and the linkage or on the shaft as well as on the suspension arms.



Use the teeth brush to cleanse the dirty corners on the chassis or the linkage or the shaft as well as on the suspension arms.



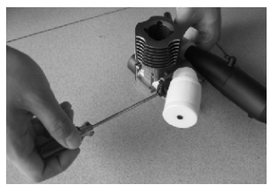
If the air sprayer is not available, you can use the air cleaning ball instead.Always oil the driving parts after cleaning. Otherwise, they may become rusty.

■ To maintain your engine

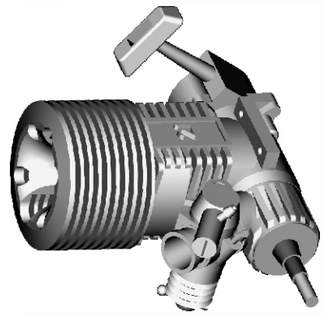
Engine maintenance service is not more difficult than you expected.
Flow the maintenance oil into the air inlet.
Start the engine by pulling the starter lever, flowing the oil into the engine.

Oil the clutch bearing. Slightly rotate the bearing to have it fully oiled.

Always check the air filter,and clean the air filter when it is dirty.
Replace it when it is quite dirty or is not worth cleaning



Please secure the main body carefully by the lock screws when you attach the parts on it. Always check the parts which are subject to move.



21CXP ENGINE ASSEMBLY DIAGRAM

S001-Glow Plug
S002-Screw 4P
S003-Cylinder Head
S004-Gasket
S005-Cylinder Piston
S006-Piston Pin
S007-Pin Clip 2p
S008-Joint Lever
S009-Engine Main Body
S010-Carburetor Assembly
S011-Carburetor Bolt
S012-Screw
S013-Nut
S014-Roller Bearing(front)
S015-Roller Bearing(rear)
S016-O-Ring
S017-Crankshaft
S018-One-Way Clutch Unit
S019-Gasket
S020-Engine Backhousing
S021-Screw
S022-Pulling Starter
S023-Screw

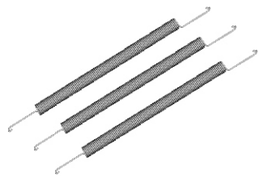
81001-Centre Diff. Plate

81008-Front Steering Top Plate

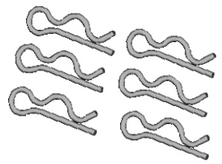
81010-Steering Ackerman Plate

81011-Wheel Hex. Mount 4P

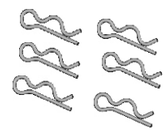
81012-Exhaust Pipe Springs 3P



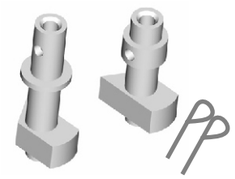
81013-Body Clips



81014-Battery/Receiver Case Clips

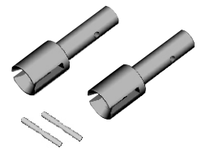


81015-Brake Cam Shafts

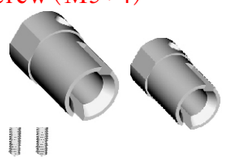


81016-Diff. Case +shim

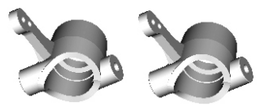
81018-Rear Axles+ pins(3*17) 2P



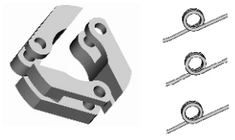
81021-Drive Gear Joint Cups+Grub Hex. Screw（M5*4） 2P



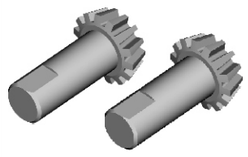
81022-Steering Hubs (L/R)



81024-Clutch Shoes+ Springs

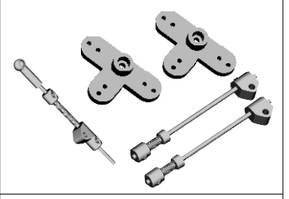


81025-Drive Pinions （13T） 2P

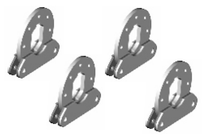


81026-Driven Crown Gear 43T

81027-Brake& Throttle Assembly

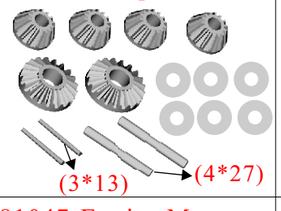


81028-Brake Discs 4P

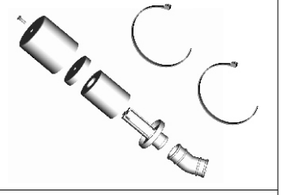


81029-Fuel Tank/ Fuel Tubes

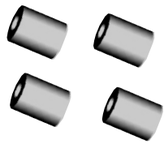
81042-Pinions Complete



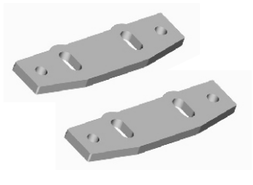
81043-Air Filter Assembly+zip ties 2P



81044-Filter Foam 4P

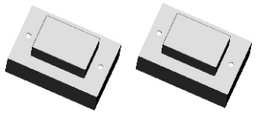


81046-Engine Bottom plates(Al.)



81047-Engine Mount 2P (Al.)

81049-Servo Switch Housing

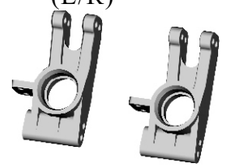


All style include:Buggy/Truck/extra length Truck/Truggy/ATV/On-road Car/Rally Monster

All Style(ABCDEFG) Common Parts

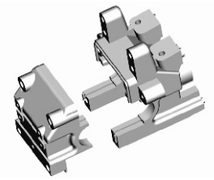
81050-Centre Diff. Mount

81053-Rear Uprights (L/R)



81055-Battery/receiver Case

81057-Gear Box

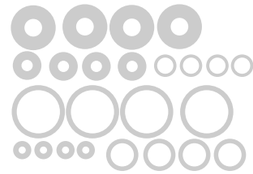


81062-Steering Mount

81063-Steering Arm Assembly

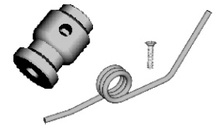
81065-Radio tray Mount Assembly

81069-Washers Complete



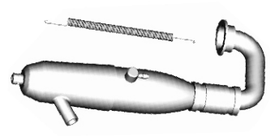
81070-Bearings Complete (10*5*4) & (16*8*5)

81071-Exhaust Pipe Mount +Spring

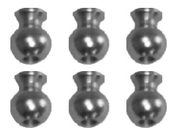


81072-Pinion Joint Cups 2P

81282-Exhaust Pipe /Spring



81207-Universal Joint Balls 6P



81209-Steering Balls 8P

81212-Wheel Hex. Nuts 4P

81220-1 Countersunk Self-tapping screw 3*10 10P

81220-2 Countersunk screw 3*6 8P

81220-3 Countersunk screw 3*10 4P

81220-4 Countersunkscrew 3*12 4P

81220-5 Countersunk screw 3*14 4P

81220-6 Countersunkscrew 3*16 4P

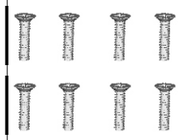
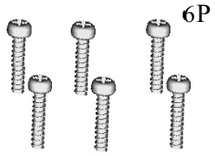
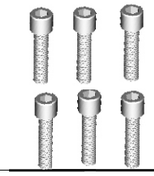
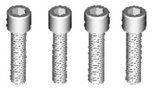
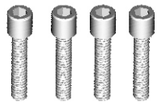
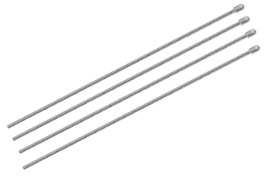
81220-7 Countersunk screw 3*18 4P

81220-8 Countersunk self-tapping screw 4*20 10P

81220-9 Countersunk self-tapping screw 4*25 4P

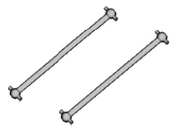
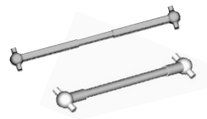
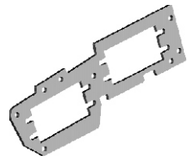
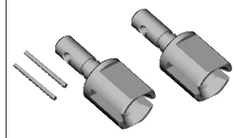
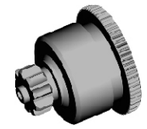
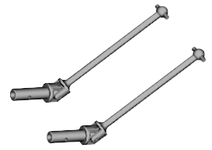
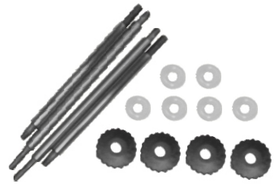
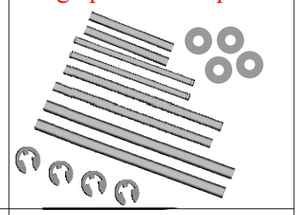
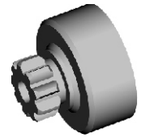
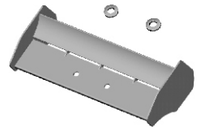
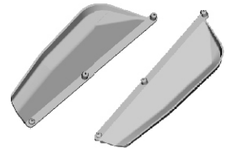
All style include:Buggy/Truck/extra length Truck/Truggy/ATV/On-road Car/Rally Monster

All Style(ABCDEFG) Common Parts

81220-10 Countersunk Hex. screw 4*20 8P 	81220-11 Countersunk screw 4*6 8P 	81220-12 Countersunk screw 4*10 8P 	81220-13 Cap head self-tapping screw 3*10 13P 
81220-14 Cap head self-tapping screw 3*12 8P 	81220-15 Cap head self-tapping screw 3*16 8P 	81220-16 Cap head self-tapping screw 4*14 4P 	81220-17 Cap head self-tapping screw 4*25 6P 
81220-18 Cap head screw 3*14 6P 	81220-19 Cap head screw 4*12 6P 	81220-20 Cap head screw 4*10 9P 	81220-21 Cap head screw 4*20 6P 
81220-22 Cap head Hex. screw 3*14 4P 	81220-23 Column head Hex. Screw 3*20 6P 	81220-24 Column head Hex. Screw 3*14 4P 	81220-25 Column head Hex. Screw 3*25 4P 
02057-Antenna Pipes 	81222-Clutch Springs 3P 	02155-Ni-MH Battery (6V,1100mA) 	81203-Engine Nut+pad 
83016-Receiver 			

All style include:Buggy/Truck/extra length Truck/Truggy/ATV/On-road Car/Rally Monster

Off-road Buggy/Rally Monster(A/G)Spare Parts

81004-Rear dog bones (89mm) 2P 	81005-Centre Diff. Dog bones front(98mm) + rear(92mm) 	81006-Rear Shock Tower 	81007-Front Shock Tower (For Buggy Only) 
81009-Radio tray 	81017-Centre Diff. Gear Joint Cups+ pins(2.6*14) 2P 	81019-Main Gear (46T) 	81020-Clutch Bell 14T 
81023-Universal Dog bones 2P 	81030-Shock Shafts/ Nuts 	81031-Rear Anti Roll Bar + Mount 	81032-Suspension Arm Hinge pins+E-Clips 
81033-Chassis 	81039-Metal Clutch Bell(14T) 	81040-Flywheel(Al.) 	81048-Front and Rear Suspension Braces 
81051-Off Road Wing (For Buggy Only) 	81052-Right/left Stone Splash Guard (For Buggy Only) 	81054-Front Bumper (For Buggy Only) 	81002-Rear Shock Absorber 2P
81003-Front Shock Absorbesr 2P 	81056-Rear Lower Suspension arms 2P 	81058- Suspension Arm Mount 	81059-Shock Absorber Caps 8P

81060-Front Lower Suspension arms 2P

81061- Wing Braces+ Mounts+wing post(AL.) (For Buggy Only)

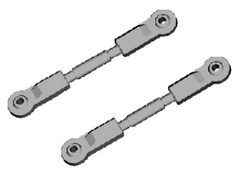
81064-Front Upper Arms 2P

81086-Front/rear reinforcement link

81068-Rear Upper Arms 2P

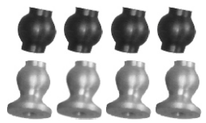
81201-Shock Ball Holders 8P

81204-Steering Links 2P

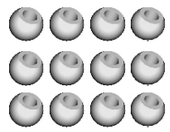


81205-Shock Boots 8P

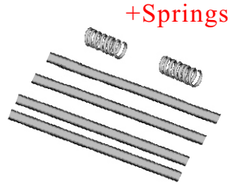
81208-Rear Upper Arm Balls 4P



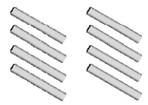
81210-Shock Balls 12P



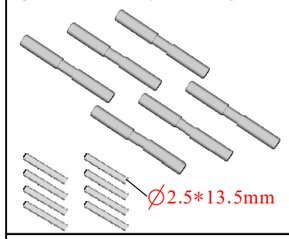
81211-Front Lower Arm Pins (82mm) +Springs



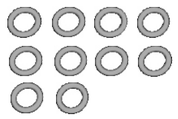
81213-Wheel Axle Pin∅2.5*13.8mm 8P



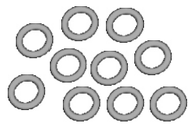
81214-Diff.Pin 6P



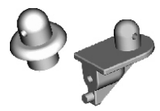
81215-Shock Seals 10P



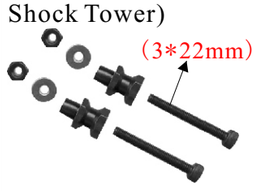
81216-Diff. Seals 10P



B81301- Solid Front/ Rear Body Post (For Buggy Only)



B81302-Shock Mount (To Install Shock To Shock Tower)



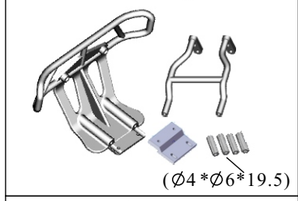
81036-Wheel Rims 2P

81290-V-tread Tires (For Buggy Only) 2P

81035N-Wheels Complete (For Buggy Only) 2P

81206-Tyre Insert Sponge 2P

85501-Front Bumper /connect plate



85502-Rear Bumper

81217-Front Shock Tower

89008-Body Brace 2P

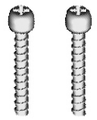
89012-Body Post 4P

62055-Countersunk Mechnical Screw 3*6 8P

60079-Cap Head Self-tapping Screw 3*12 10P

85503-Ball head Mechnical Screw 4*20 5P

85504-Ball head Self-tapping Screw 4*22 2P

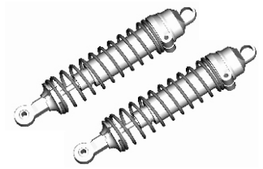


62056-Ball Head Self-tapping screw(4*40) 4P

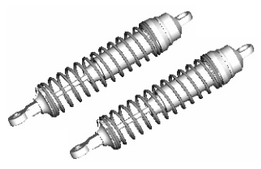
62053-Tires w/Foam 2P

62054-Wheels Complete 2P

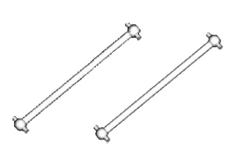
81002-Rear Shock Absorber 2P



81003-Front Shock Absorbesr 2P



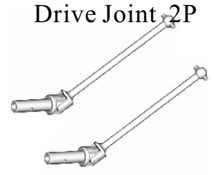
81004-Rear Drive Dogbones 2P



81006-Rear Shock Tower

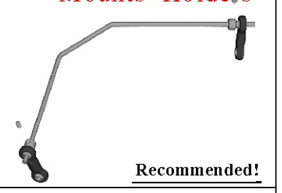
81217-Front Shock Tower

81023-Front Universal Drive Joint 2P



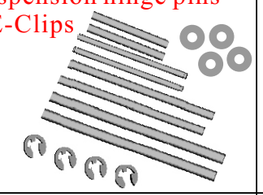
81030-Shock Shafts +Nuts

81031-Rear Roll Bar+ Mounts+Holders



Recommended!

81032-Front/rear Lower suspension hinge pins +E-Clips



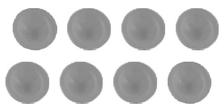
81048-Front/Rear Reinforcement Brace

81054-Front Bumper

81056-Rear Lower Sus.Arm 2P

81058-Front/rear Lower Sus.Arm Holder

81059-Shock Absorber Cap 8P



81060-Front Lower Sus.Arm 2P

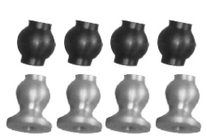
81064-Front Upper Sus.Arm 2P

81068-Rear Upper Sus.Arm 2P

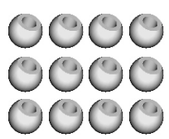
81201-Shock Ball Holder 8P

81205-Shock Boot 8P

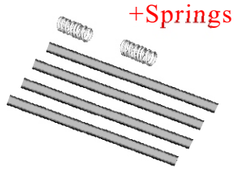
81208-Rear Upper Arm Ball 4P



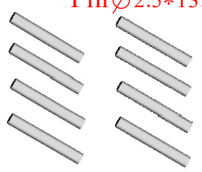
81210-Shock Ball 12P



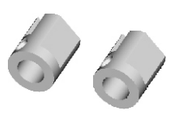
81211-Front Upper Arm Axles 4P +Springs



81213-Wheel Axle Pin∅2.5*13.8mm 8P

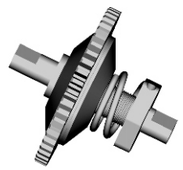


83001-Centre Diff. Universal Cups

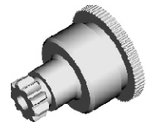


Off-road Truck(B)extra length Truck(C)/ATV (E) Common Parts

83002-Centre Diff. Complete



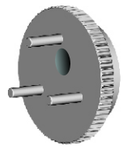
83003-Clutch Bell (10T)+Flywheel Assembly



83008-Clutch Bell (10T)
83008T-Clutch Bell (9T)

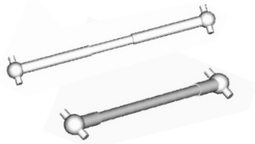
83009-Body Brace 2P +Body Post 4P

83013-Flywheel(Al.)



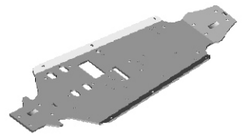
83018-Main Gear(49T)

81005-Centre Drive Dogbones (front+rear) (For Truck B and ATV)



81009-Radio Tray (For Truck B and ATV)

81033-Chassis (For Truck B and ATV)



81066- Reinforcement Brace(Centre Front/rear) (For Truck B and ATV)

83004-Tire 2P (for Truck B only)

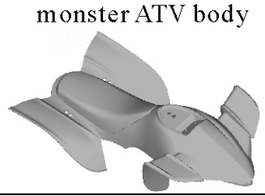
83005-Wheel Complete (for Truck B only) 2P

83006-Wheel Rim 2P (for Truck B only)

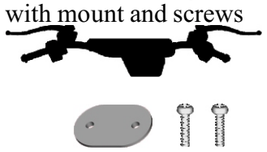
08157-Tire Insert Sponge (For Truck B only) 2P

Spare Part for ATV(E)

ATV801-1/8th scale monster ATV body



ATV802-1/8th scale monster ATV body handle with mount and screws



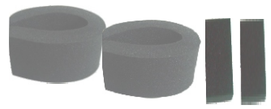
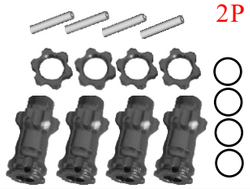
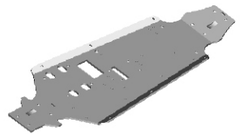
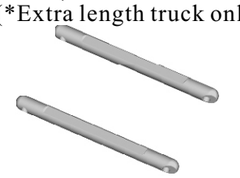
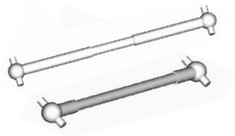
ATV803-1/8th scale monster ATV rider w/the mount post

88100-New Stylish Wheel Rim 2P

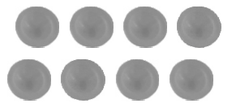
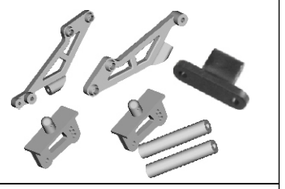
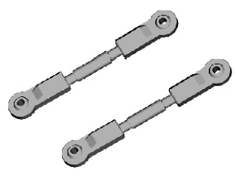
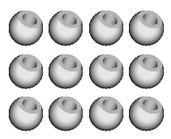
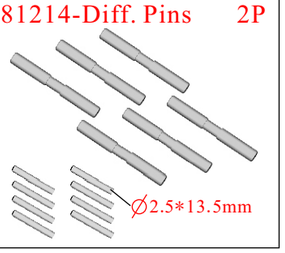
88101-New Stylish Tyre 2P

88102-Wheel Complete 2P (88100+88101)

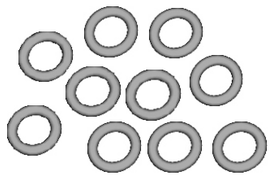
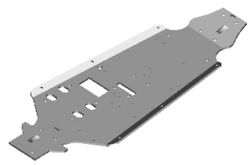
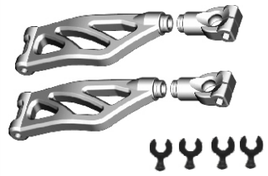
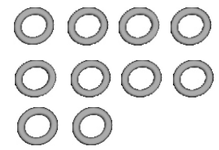
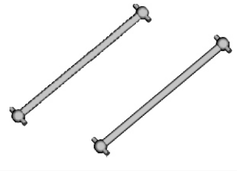
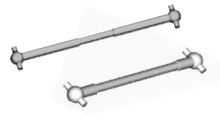
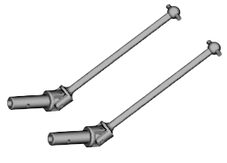
Spare Parts for extra length Truck(C)

89104-Tire 2P 	89105-Wheel Complete 2P 	89106-Wheel Rim 2P 	08159-Tire Insert Sponge 2P 
89108-Wheel Hex. Enhanced Mount 2P 	88331-Radio Tray (*Extra length truck only) 	88332- Chassis (*Extra length truck only) 	88333-Reinforcement Brace(Centre Front/rear) (*Extra length truck only) 
88334- Centre Drive Dogbones(front+rear) (*Extra length truck only) 			

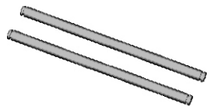
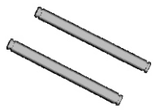
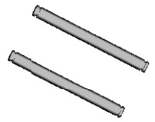
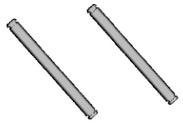
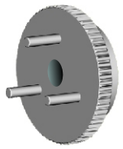
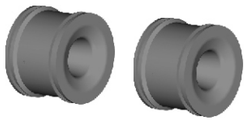
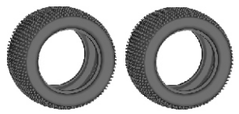
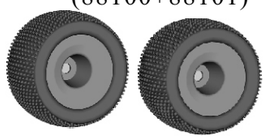
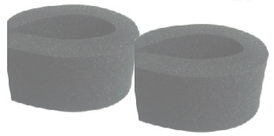
Off-road Truggy(D) Spare Parts

81030-Shock Shafts/ Nuts 	81054-Front Bumper 	81059-Shock Absorber Caps 8P 	81061- Wing Braces+ Mounts+wing post (AL.) 
81201-Shock Ball Mount 8P 	81204-Steering Links 2P 	81210-Shock Balls 12P 	81214-Diff. Pins 2P 

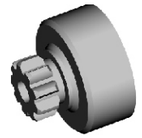
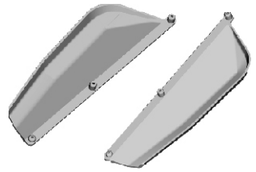
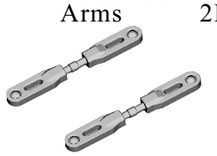
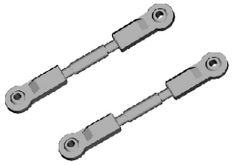
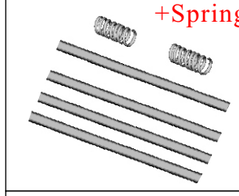
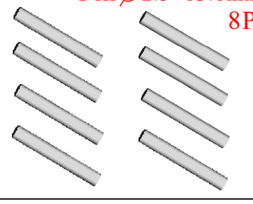
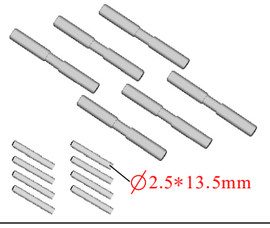
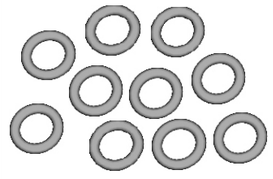
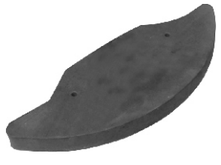
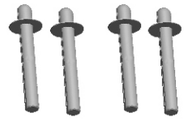
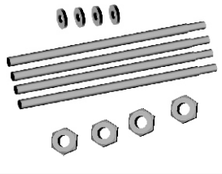
Off-road Truggy(D) Spare Parts

81216-Diff. Washers 10P 	88301-Front Shock Tower 	88302-Rear Shock Tower 	88303-Radio Tray 
88304-Chassis 	88305-Rear Lower Sus.Arm 2P 	88306-Front Lower Sus.Arm 2P 	88307-Front Upper Sus.Arm 2P 
88308-Centre Front/rear Reinforcement Brace 	88309-Rear Upper Sus.Arm 2P 	88310-Front Lower Suspension Mount-Outside 	81215-Shock Washers 10P 
88311-Front Upper Suspension Mount 	88312-Rear Lower Suspension Mount -Outside 	88313-Front Lower Suspension Mount -Inside 	88314-Rear Lower Suspension Mount -Inside 
88315-Body Posts 4P 	88316-Front Suspension Outside Mount Toe Cover 2P 	88317-Rear Suspension Outside Mount Toe-in Cover 2P 	88318-Rear Suspension Outside Mount Toe-out Cover 2P 
88319-Rear Dogbones 2P 	88320- Centre Diff. Dogbones (front +rear) 	88321-Front Universal Drive Joint 2P 	88322-Front Shock Absorbers

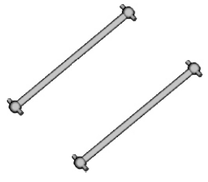
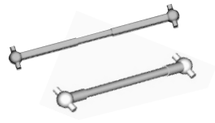
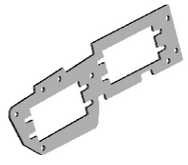
Off-road Truggy(D) Spare Parts

88323-Rear Shock Absorbers 	88324-Centre Diff. Gear(49T) 	88325-Front Upper Suspension Hinge Pin 2P 	88326-Front Lower Suspension Hinge Pin 2P 
88327-Rear Lower Suspension Inside Hinge Pin 2P 	88328-Rear Lower Suspension Outside Hinge Pin 2P 	83013-Flywheel(Al.) 	83008-Clutch Bell (10T) 83008T-Clutch Bell (9T) 
88100-New Stylish Wheel Rim 2P 	88101-New Stylish Tyre 2P 	88102-Wheel Complete 2P (88100+88101) 	08156-Tire Insert Sponge 2P 
88330-Front Post Brace+ Aluminum Rear Post Mount 2P+Screws+Clips 			

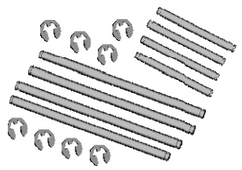
On-road Car(F) Spare Parts

81033-Chassis 	81039-Metal Clutch Bell(14T) 	81040-Flywheel(Al.) 	81048-Front and Rear Suspension Braces 
81052-Right/left Stone Splash Guard 	81056-Rear Lower Suspension arms 2P 	81060-Front Lower Suspension arms 2P 	81064-Front Upper Arms 2P 
81066-Front/rear reinforcement link 	81068-Rear Upper Arms 2P 	81204-Steering Links 2P 	81208-Rear Upper Arm Balls 4P 
81211-Front Lower Arm Pins +Springs 	81213-Wheel Axle Pin∅2.5*13.8mm 8P 	81214-Diff.Pin 2P 	81216-Diff. Seals 10P 
88201- Shock Sets 2P 	88202- Front Bumper Foam 	88203- Front Bumper Foam Upper Mount 	88204- Rear Bumper Mount 
88205- Body Posts 4P 	88206- Front/Rear Shock Tower 	88207- Body Post Mount 4P 	88208-Shock Shafts/ Nuts 

On-road Car(F) Spare Parts

81004-Rear dog bones 2P 	81005-Centre Diff. Dog bones (front +rear) 	81009-Radio tray 	81017-Centre Diff. Gear Joint Cups+ pins(2.6*14) 2P
81019-Main Gear	81020-Clutch Bell	81023-Universal Dog bones 2P	81031-Rear Anti Roll Bar + Mount

88209-Suspension Arm Hinge pins+E-Clips



88210- Suspension Arm Mount

85732-Spoke Rims 2P

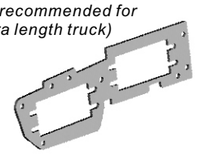
89110-On road rally Tires 2P

89111-Rally Car Wheel Complete 2P

08158-Tire Insert Sponge 2P

081002-Alum.Radio Tray

(Not recommended for extra length truck)



Old NO.:81615

081002T -Carbon Fibre Radio Tray

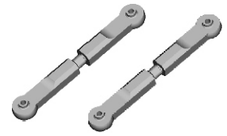
*085002T -Carbon Fibre Radio Tray

(* Extra length truck only)

081018-Alum.Front Upper Adjust able Arms 2P

Old NO.:81609

081020-Alum. Rear Upper Adjustable Arms 2P



Old NO.:81608

081021-Alum.Rear lower Suspen sion Arms 2P

Old NO.:81613

081031-Front Upper Arm Holder (Al.)

Old NO.:81604

081033-Rear Upper Arm Holder(Al.)

Old NO.:81605

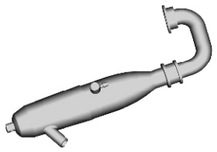
All Style(ABCDEFG) Common Upgradable Optionals

Off-road Buggy/Rally Monster(A/G)Upgradable Optionals

081008-Alum.Clutch Shoes

Old NO.:81202

081009-1/8 28CXP Exhaust Pipe

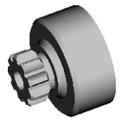


Old NO.:81084

081024T-Carbon Fibre Centre Diff. Plate

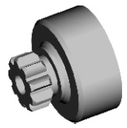
081025-Aluminum Centre Diff.Mount

081007A-Alum. Clutch Bell(15T)



Old NO.:81039A

081007B-Alum. Clutch Bell(16T)



Old NO.:81039B

081012-Alum. Rear Hub Carrier (L/R)

Old NO.:81610

081019-Alum.Front lower suspension arm 2P

081026-Alum.Steeri ng Top Plate

Old NO.:81614

081026T-Carbon Fibre Steering Top Plate

081040-Aluminum Ackerman Plate

081057-Aluminum Steering Bush/Servo Saver Complete

081022-Front Shock Tower(Al.)

(For Buggy Only)

Old NO.:81602

081023-Rear Shock Tower(Al.)

Old NO.:81603

081032-Alum.Front lower suspension mount

081037-Front Body Post (Al.)

Old NO.:81601

081062-Aluminum Lightweight Flywheel

081066-Engine (Taiwan SH 28CXP)

Old NO.:83012

04103-Alum.capped air filter cover

80118-Alum.Fuel Filter

081038- Rear Body Post (Al.)

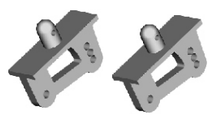
Old NO.:81607

081039-Alum.Wheel Rims 2P

Old NO.:81612

081044-Alum.Wing Stay(L/R)

081045-Alum.Tail Wing Adjustor Mounts(L/R)



Old NO.:81606

081071-Alum. Fuel Tank mount

081072-Alum. Battery Pack Cover

081073-Alum. Transponde mount

081074-Alum. brake disc mount

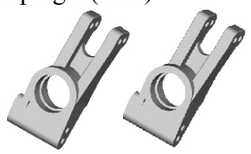
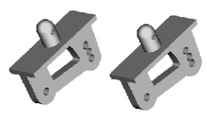
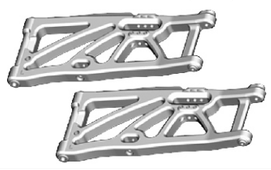
081067-Alum. Tail Wing Pad

Old NO.:81611

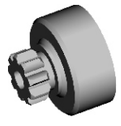
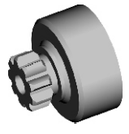
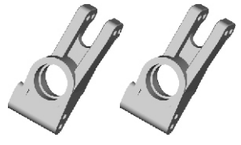
Off-road Truck(B)extra length Truck(C)/ATV (E) Upgradable Optional

081012-Alum.Rear Upright(L/R)  **Old NO.:81610**	081023-F/R Shock Tower(Al.)  **Old NO.:81603**		

Off-road Truggy(D) Upgradable Optional

081012-Alum. Rear Upright(L/R)  **Old NO.:81610**	081044-Alum.Wing Stay(L/R) 	081045-Tail Wing Adjustor Mount(L/R)  **Old NO.:81606**	081067-Alum. Tail Wing Pad  **Old NO.:81611**
085002T -Carbon Fibre Radio Tray 	085018-Front Upper Sus.Arm(Al.) 2P 	085019-Front Lower Sus.Arm(Al.) 2P 	085020-Rear Upper Sus.Arm(Al.) 2P 
085021-Rear Lower Sus.Arm(Al.) 2P 	085022-Alum.Front Shock Tower 	085023-Alum.Rear Shock Tower 	

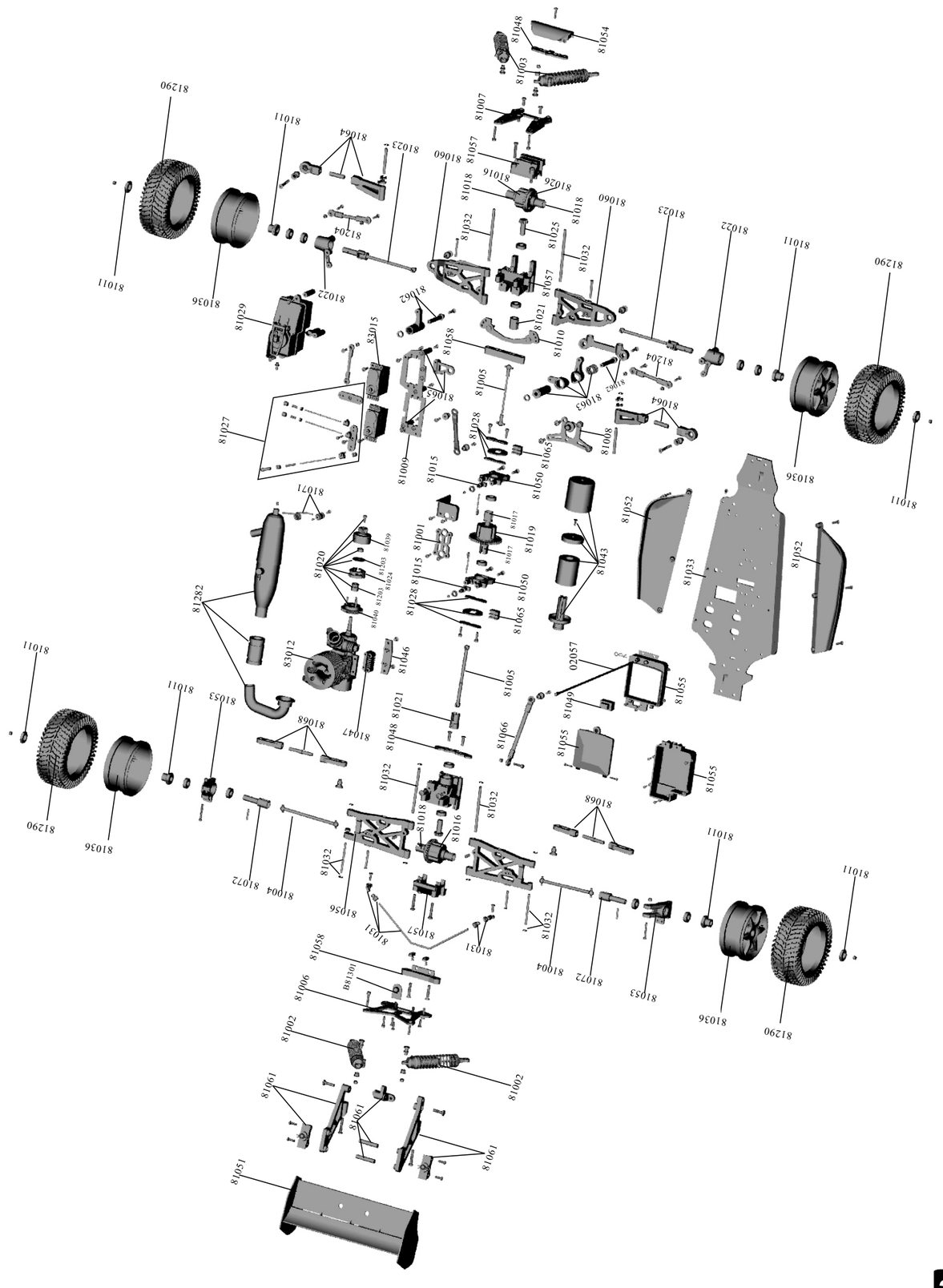
On-road Car(F) Upgradable Optionals

081007A-Alum. Clutch Bell(15T)  **Old NO.:81039A**	081007B-Alum. Clutch Bell(16T)  **Old NO.:81039B**	081012-Alum. Rear Hub Carrier (L/R)  **Old NO.:81610**	

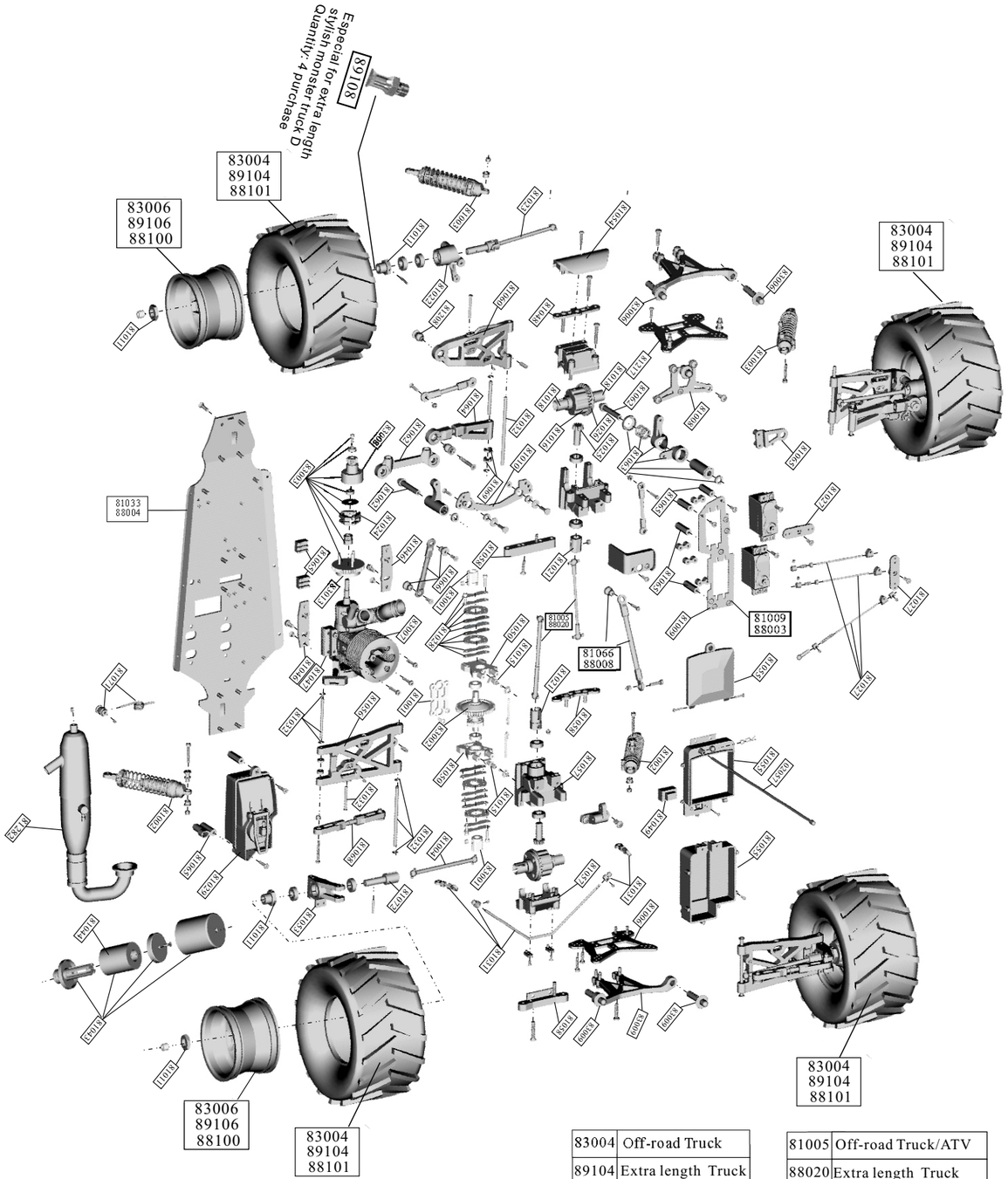
On-road Car(F) Upgradable Optionals

081019-Alum.Front lower suspension arm 2P 	081032-Alum.Front lower suspension mount 	081039-Alum.Wheel Rims 2P  **Old NO.:81612**	081067-Alum. Tail Wing Pad  **Old NO.:81611**

Off-road Buggy(A) Exploded Diagram



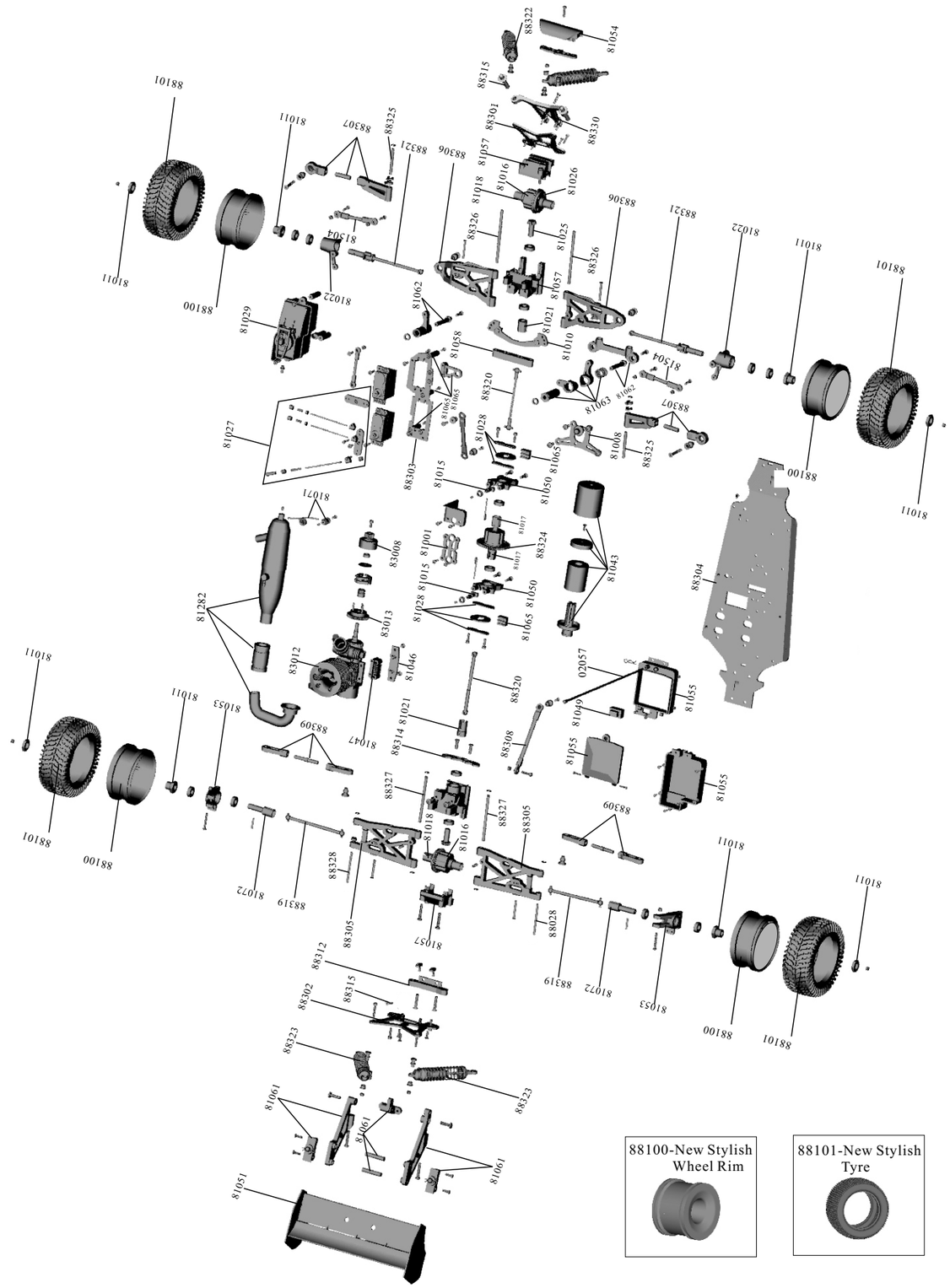
Truck(B)/extra length Truck(C) /ATV(E)



83004	Off-road Truck
89104	Extra length Truck
88101	Off-road ATV
83006	Off-road Truck
89106	Extra length Truck
88100	Off-road ATV
83005	Off-road Truck
89105	Extra length Truck
88102	Off-road ATV

81005	Off-road Truck/ATV
88020	Extra length Truck
81009	Off-road Truck/ATV
88003	Extra length Truck
81033	Off-road Truck/ATV
88004	Extra length Truck
81066	Off-road Truck/ATV
88008	Extra length Truck

Off-road Truggy(D) Exploded Diagram



88100-New Stylish Wheel Rim

88101-New Stylish Tyre

On-road Rally Racing Car(F) Exploded Diagram