Please completely read and understand the entire manual before using, assembling and/or disassembling your remote controlled car.

1/12TH SCALE ELECTRIC POWERED OFF-ROAD VEHICLES

INSTRUCTION MANUAL

ITEM NO.:12881 OFF-ROAD BUGGY



ITEM NO.:12885 SHORT-COURSE TRUCK





ITEM NO.	LENGTH	WIDTH	HEIGHT	WHEELBASE	WHEEL DIA.	WHEEL SPAN	GEAR RATIO
12881	338mm	214mm	109mm	240mm	74mm	30mm(Fr.) 37mm(Rr.)	
12882	366mm	251mm	135mm	240mm	88mm	43mm	12:1
12883	338mm	265mm	150mm	240mm	98mm	48mm	12:1
12885	408mm	213mm	148mm	240mm	76mm	30mm	11.1:1

- This product is not a toy. It is not intended for persons under 14 years of age, unless closely supervised by an adult.
- This manual is subject to change without prior notice.

GENERAL INFORMATION

- This user's manual is designed for use with your vehicles and contains the instructions you will need to assemble, operate and maintain your vehicles.
- We know you are anxious to start driving, but it is very important that you take time to read the manual even if you are an experienced R/C driver.
- Carefully read and follow all instructions in the manual. Failure to follow the instructions will be considered abuse and/or neglect and may void the warranty.
- Your vehicle is designed to run on uneven or rough terrain. However dust, sand, water and carpet fibres can lodge in the working parts of your cars and can damage your vehicle if not removed promptly. We do not warranty your vehicle from damage due to outside elements including sand, dirt or water. The users are responsible for the maintenance and safe operation of this vehicle.
- This product is not a toy. It is not suitable for users under 14 years old unless they are supervised by adults.
- Never attempt to re-assemble any electronic components. These have been carefully calibrated at the factory.
- Only use manufactured parts to upgrade your car. If you perform a drive train upgrade, replace
 the entire system (Such as motor, ESC/receiver unit and the like) so that all components are properly
 matched. Any malfunction incurred by custom modification will void your warranty.
- Before driving your vehicle, please read this manual completely and examine your vehicle and radio control for any defects.
- For better performance, some adjustment may be necessary.
- This vehicle requires one battery pack (included in the car or in the packaging). Make sure the vehicle's batteries have a sufficient charge before driving or possible loss of control may result. The radio controller requires two AA size batteries (not include in the packaging).
- Always remove batteries from the vehicle and the radio controller when not in use.
- Please operate your vehicle in a spacious area. Never operate your vehicle in crowded street.
- This product is fully assembled at factory. We do not take any responsibility for damage and/or accidents that occur as the result of custom modifications and/or incorrect operation.

SAFETY INFORMATION

We want users to enjoy our RC vehicles and to operate them with care. Failure to operate your vehicle in a safe and responsible manner may result in injury to yourself, others or damage to property around you.

- Read and understand all instructions carefully before use and assembly/disassembly.
- Do not run your vehicle on public roads or any area where you may encounter pedestrian or vehicle traffic.



- Do not operate in a congested area or in crowds.
- Do not operate your vehicle with obstructed line of sight, at night, or near water.



- Your vehicle is radio controlled. Radio waves are subject to interference. Radio interference can cause loss of control of your vehicle.
- Take care not to cut yourself while using tools to adjust or upgrade your vehicle.
- Since the model contains many small parts, keep out of reach of children while assembling and/or disassembling.





- If your vehicle becomes stuck, release the throttle, then retrieve it by hand.
- Do not continue to apply the throttle or you may damage the motor and/or the ESC/receiver unit.
- Turn off your vehicle and discontinue use if it runs erratically. Not do you run it again until the issue has been found and resolved.

GETTING FAMILIARIZED WITH YOUR 2.4GHz RADIO SYSTEM

Your car is equipped with the new 2.4GHz radio system .Please read and understand all instructions below before operating.



- 1) Steering Wheel
- 2) Trigger
- 3) Steering Trim
- 4) Throttle Trim
- 5) Steering Reverse Switch
- 6) Power Indicator
- 7) Power ON/OFF
- 8) AUX. Button

(This button is disabled for the car)

Steering Wheel: It proportionally operate the right and left steering control of the model.

Battery Case: It requires 2pcs of AA size batteries.

Power Switch: It is applied to turn ON/OFF the radio controller.

Steering Trim: It is applied to adjust the centre trim of the steering channel.

Steering Reverse: It allows you to switch the directions of the steering servo travel.

Power Indicator:

When the radio controller is turned on, LED flashes sharply which indicates that the radio controller is seeking the receiver's signal and binding is in process.

When the power is enough, LED is solid on.

When the power is not enough, LED will have two flashes in turn. If it is the case, you are required to replace with the new batteries.





Slide the battery cover as shown in the photos, install two AA size batteries into the battery compartment, and replace the battery cover.

(NOTE: Do not insert the batteries with incorrect polarities.)

Operation Precautions:

- 1) Do NOT mix new and old batteries.
- 2) Use batteries of same brand.
- 3) Do NOT use batteries that are not allowed to power the radio controller.

(This radio controller ONLY requires AA size batteries which is individually 1.5V)

4) Always remove the batteries from the radio controller if the radio controller is not in use.

This operation is to prevent the damage from leaking batteries.

5) Do not attempt to disassemble the radio controller as it contains many electronic components.

RUNNING YOUR CAR

1) TURN ON THE RADIO CONTROLLER 2) TURN ON THE RECEIVER ON YOUR CAR







The receiver switch is located under the roof of the dune buggy. The receiver switch is located on the rear suspension of the monster truck and truggy.

NOTE: To run your car, switch on the radio controller, and then the receiver. To stop your car, switch off the receiver first, and then the radio controller. (Your car is automatically bound with the radio controller when both are switched on.)

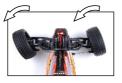
(3) CHECK STEERING PERFORMANCE

• Ensure good steering performance.















1)Place the steering wheel at Center to enable the vehicle to run straightly in line.

(NOTE: Flipping to trim the steering wheel is occasionally needed. It largely depends on the conditions of the terrains on which the vehicle runs.

- 2)Turn the steering wheel to the left, and the car turns left.
- 3) Turn the steering wheel to the right, and the car turns right.

4 CHECK TRIGGER RESPONSE









- A. Pull the trigger back to accelerate, release it to decelerate and push it to brake.
- B. To stop running your car, release the trigger to Centre.
- C. Pushing the trigger a second time activates the reverse feature.

RUNNING YOUR CAR

5 TO TUNE THE STEERING TRIM





The trigger is unmoved and the vehicle is static. Tune the steering trim to enable the front wheels to be aligned. Under this case, the steering Center Point is set. You can tune this switch to obtain your desired Left/Right steering angles.

6) TO TUNE THE THROTTLE TRIM





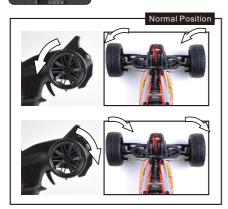
Place the vehicle with four wheels off ground. Trim the switch and you will see the wheels run either forwards or backwards. When the wheels are trimmed to stop, this point is throttle Center Point.

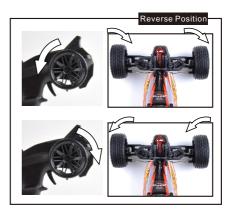
7 TO REVERSE THE STEERING MODE

It enables you to switch the direction of the steering servo's travel.

One way is Normal position, and the other is Reverse position. Please refer to the photos below:





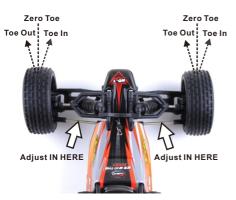


ADJUSTING TOE ANGLE AND CAMBER ANGLE

Your model can be customized to enhance speed and performance. Simple adjustment and easily maintained setting will assure optimum operation and performance. When making adjustments, do so only in small increments and always check for other parts of the vehicle that are affected. Many after market options are available to make your R/C vehicle faster and stronger. Please read the section carefully and it always make sure you write down your base settings in case you need to refer to them at a later date.

Front Steering Toe Angle Adjustment

The front steering toe angle has a dramatic on how your car performs and how your tires wear. You can have toe-in, zero toe or toe-out. This can be adjusted by tuning the length of the steering linkage screwbolts as shown in the figure below. Before tuning, the steering linkage screwbolts should be removed from the vehicle. Measure the desired length by unscrewing or screwing in. After adjustment is complete, re-install them to the car.



Toe-in will be less reactive and cause the vehicle to under steer(the front wheels push straight on while turning).

This can be advantageous for operators struggling to get to grips with the driving of the vehicle.

Toe-out will be more aggressive on the steering response especially on small steering inputs. This will make the car want to over steer(rear wheels slide on small steering inputs). This is useful as a race tuning aid to gain extra steering.

Zero toe will make the front wheels run straight and make the car very neutral. Tire wear will also be reduced and the vehicle will feel easier to drive.

Camber Adjustment

Camber can be adjusted on all 4 wheels of the car. You can have negative camber or positive camber which will affect the contact patch of the tire both statically and while cornering. Camber is mainly used to control the wear of the tire.

You should adjust the camber to equal the wear all across the surface of the tire. Camber is adjusted by the upper linkage screwbolts.

Note: Before tuning, the screwbolts should be removed from the vehicle. Measure the desired length by unscrewing or screwing in. After adjustment is complete, re-install them to the car.







This is an example of positive camber. This is when the bottom of the wheel is closer to the centre of the car compared to the top of the wheel.

Positive camber will give less contact area in the corner and less grip. Excessive amounts will cause less grip and uneven wear.

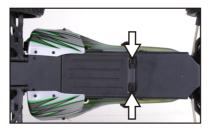


This is an example of negative camber.

This is when the top of the wheel is closer to the centre of the car compared to the bottom of the wheel.

Negative camber will give more contact area in the corner and more grip. Excessive amounts will cause less grip and uneven wear.

CHARGING BATTERY PACK



The battery cover is located on the bottom of the chassis.

- 1) Pinch the battery cover blocks as shown to open the battery cover.
- 2) Remove the battery pack.



3) Connect your battery to the charger with the help of the balancer. (as shown in the picture above.)

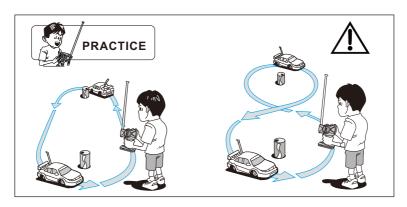
During Charging: both Red and Green LED is solid on.
Charging is complete: Red LED goes off and Green
LED remain solid on.

The charging time is around 2.5-3 hours.

NOTE:

- -Disconnect the battery when charging is finished.
- -Do not charge the battery unattended.
- -Do not handle charging operation close to any source of heat and water.

RUNNING PRACTICE



Once you become conformable driving the vehicle, perform driving practice on the tracks as shown in the figure. Keep practising until you feel comfortable with the steering, throttle and brake at low speeds. Once you are feeling comfortable try operating on another track. When you have mastered the basics you will be able to drive at higher speeds in a more controlled fashion.

MAINTAINING YOUR CAR

We warmly recommend that you check the car after each times' running. Please follow the list below to check the items.

- Check your car for any obvious damage.
- Check the gears for wear, debris or broken/slipping teeth.
- Check the wheels and tighten the wheel screws properly.
- · Check for loose screws in the chassis.
- Check the wiring for frayed or damaged wires or connectors.
- Check the steering servo which will wear out over time and require replacement.
- Check all the electronic units for no obvious sign of damage.
- Keep the chassis clean and free of sand, dust and moisture.
- Remove and clean the motor if necessary. (Never attempt to re-assemble the motor, you will damage it and void the warranty).
- Clean the car body with a soft lint-free cloth.
- Remove all batteries when not in use.

TROUBLESHOOTING 1. Check to see if transmitter and car are on. 2. Replace batteries. A. The vehicle does not work at all 3. Check if there are damaged parts. 1. Replace or charge the battery pack and/or the radio batteries. 2. Make sure the vehicle is geared properly and the pinion and spur gear are over tightened. B The vehicle runs slow. 3. Clean all bushings or ball bearings. 4. Check for stripped or dirty gears. 1. Check if the servo feels jammed, try centering it by hand. C. The throttle works. but not the steering. 2. Check the whole steering system. 1. Check if there are damaged parts. D. It steers, but throttle is uncontrollable 2. Replace or charge the battery pack and/or the radio batteries. 1. Check gear mesh between spur gear and pinion. F The vehicle runs 2. Check for stripped and/or dirty gears. noisily. 3. Clean and oil bushings or ball bearings.

12001P 12002P 12003 12004 Front Upper Arms+Rear Upper Arms+Drive Shafts+ Steering Linkage set +Servc | Front Lower Arms+Rear Servo Cover + Motor Guard Linkage Set **Bottom Chassis** + Chassis Side Plates A Lower Arms 12005P 12006 12007 12008 Chassis Side Plates B+ Gear Case+ Suspension Mount Shock Towers Front Shock Set Rear Shock Set 16027N 12010 12009P 16028 Steering Assembly+Servo Steering Hubs (L/R) Saver Assembly+ Battery Rear Hub Carriers(L/R) Front Hub Carriers(L/R) Wheel Hex. (8P) Door Block/Lock 12011P 12012 12013 12014 FOR DUNE BUGGY/ FOR DUNE BUGGY ONLY TRUGGY ONLY Slipper Clutch Gear + Body Posts (Dune Buggy Braces Assembly+ Light Battery Door+ Motor/Gear only)+ Off Road Wing Diff. Gears Assembly Mounts(Dune Buggy only) Cover 12015 12016 12202P FOR DUNE BUGGY ONLY

Shock Tower Braces

Front Axles 2P

Rear Axles 2P

Roll Rage (Dune Buggy



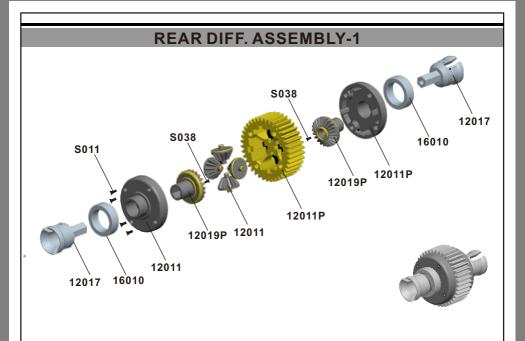


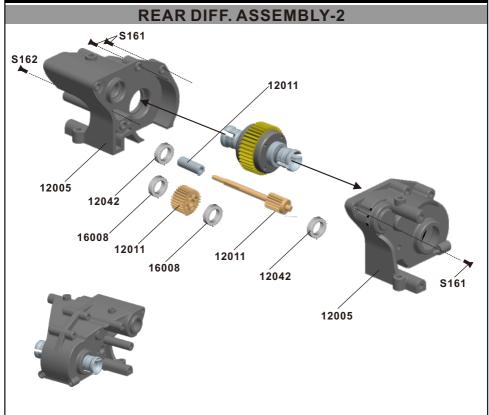
<u>S029</u>	<u>S038</u>	<u>S061</u>	<u>S062</u>
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Round Head Self Tapping Screw 2.6*10mm(12P)	Countersunk Self Tapping Screw 2*9mm (12P)	Countersunk Self Tapping Screw 2.6*6mm (12P)	Countersunk Screw 3*10mm (12P)
<u>\$071</u>	<u>S089</u>	<u>S093</u>	<u>\$100</u>
777777	dadad d	AAAAA A	ddddd d
anana a	ddddd d	AAAAA A	AAAAAA
Round Head Self Tapping Screw 3*6mm(12P)	Round Head Self Tapping Screw 2.6*6mm(12P)	Round Head Self Tapping Screw 2*6mm(12P)	Round Head Screw 2.5*8mm(12P)
<u>S138</u>	<u>S152</u>	<u>\$160</u>	<u>S161</u>
:::::::	44444	0 0 0 0 0	44444
Countersunk Self Tapping	Step Screws	Flange Head Self Tapping	Round Head Self Tapping
Screw 2.6*10mm (12P)	3.5*4.5-3*4.6mm(12P)	Screws 2.6*8mm (12P)	Screws 2.6*12mm (12P)
<u>\$162</u>	<u>\$163</u>	<u>S164</u>	<u>\$165</u>
:::::::	AAAAA A	0-0-0-0-0-	~ ~ ~ ~ ~
	AAAAA A	00 00 00 00	00 00 00 00
Countersunk Self Tapping Screw 2.6*18mm (12P)	Round Head Self Tapping Screws 2.6*18mm (12P)	Flange Head Self Tapping Screws 2*6mm (12P)	Cap Head Screws 2*6mm (12P)
<u>S166</u>	<u>\$167</u>	<u>P100</u>	<u>16014</u>
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Round Head Self Tapping Screws 2.3*16mm (12P)	Flange Head Self Tapping Screws 2.3*8mm (12P)	Body Post Pads (12P)	Steering Hub Step Screws(8P)

	INCI LACEMIEN	II PARI LISI-	
12900	12901	12902	12903
Charger (UL STANDARD)	Charger (EU STANDARD)	Charger (UK STANDARD)	Charger (SAA AUSTRAI STANDARD)
<u>12904</u>	<u>12061</u>	<u>12062</u>	<u>12063</u>
Company of the Compan		TTLL	
Charger Balancer	Short-Course Bumpers	Short-Course Body Posts	Short-Course Tires
12064	12065 Short-Course Wheels	12090 Short Course Truck Body	12091 Short Course Truck Body
Short-Course Wheel Rims		(Red)	(Green)
<u>12070</u>	<u>12071</u>	<u>12080</u>	<u>12081</u>
FOR TRUGGY ONLY	FOR TRUGGY ONLY	FOR MONSTER TRUCK ONLY	FOR MONSTER TRUCK ONLY
Truggy Body (Red)	Truggy Body (Green)	Truck Body (Red)	Truck Body (Green)
12228XP			

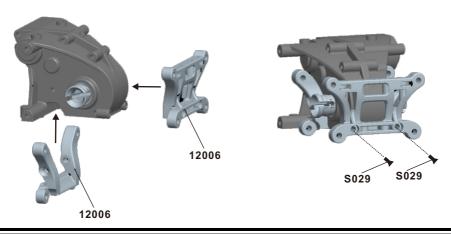
OPTIONAL PART LIST

<u>12220</u>	<u>12203</u>	<u>12204</u>	<u>12210</u>
OPTIONAL PART	OPTIONAL PART	OPTIONAL PART	OPTIONAL PART
*		magaza	NALLY V
	9		
	Mr. Ho		
Metal Drive Shafts	Front Aluminum Shock Set	Rear Aluminum Shock Set	Aluminum Chassis Side Plates A
12211 OPTIONAL PART	12212 OPTIONAL PART	12213 OPTIONAL PART	12214 OPTIONAL PART
or Honal Part	OT HOMAL PART	or monagrant	OT HOMAL PART
TAD AND			
KIN (190)			•••••
		Aluminum Oharla Taura	Aluminum Quan annian
Aluminum Chassis Side Plates B	Aluminum Servo Cover	Aluminum Shock Tower (Front And Rear)	Aluminum Suspension Mount(2pcs)

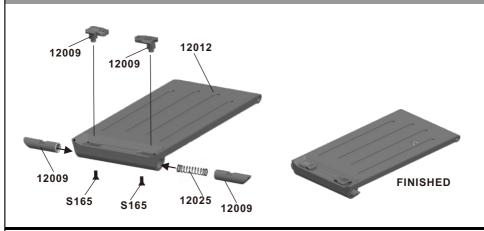




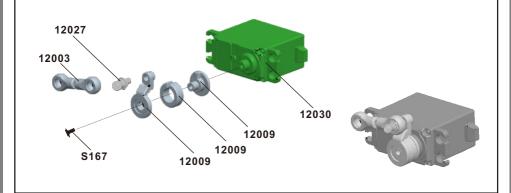
REAR DIFF. ASSEMBLY-3

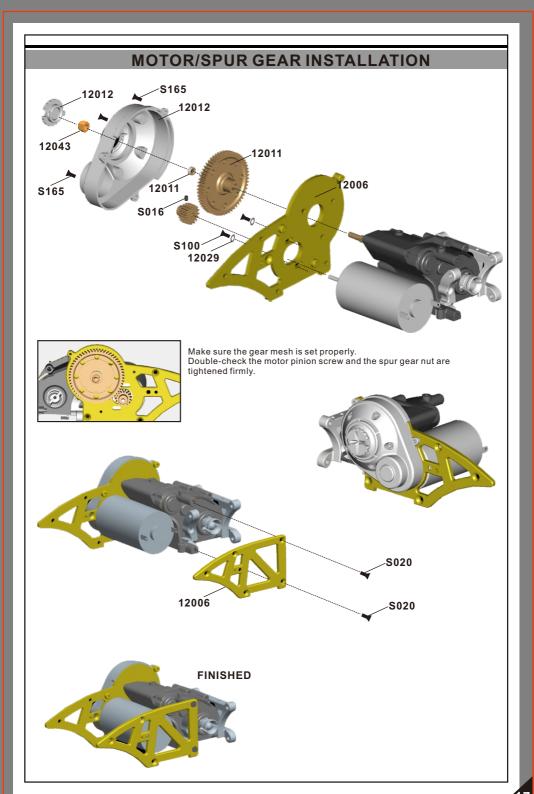


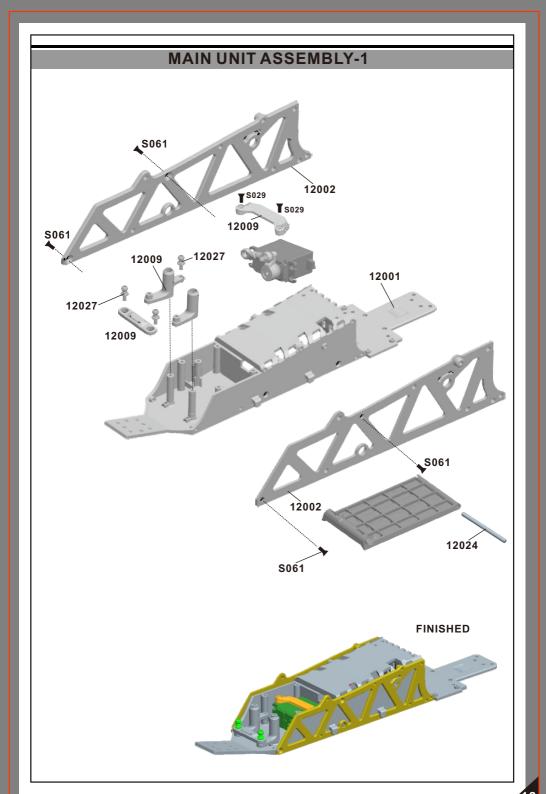
BATTERY COVER ASSEMBLY



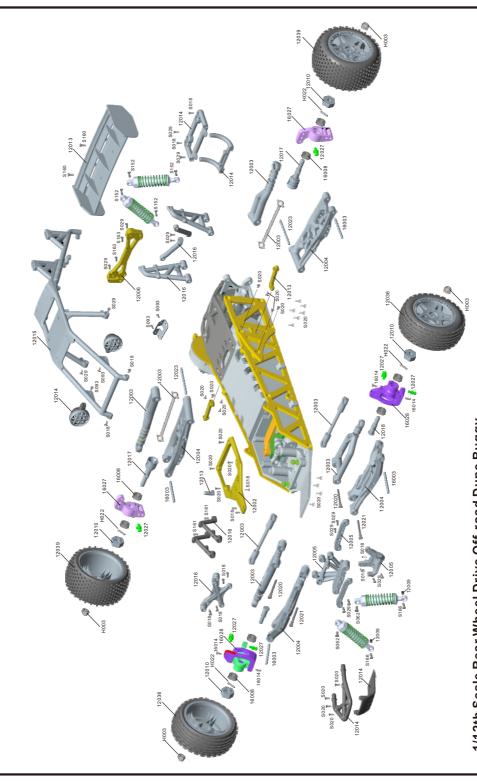
SERVO ASSEMBLY





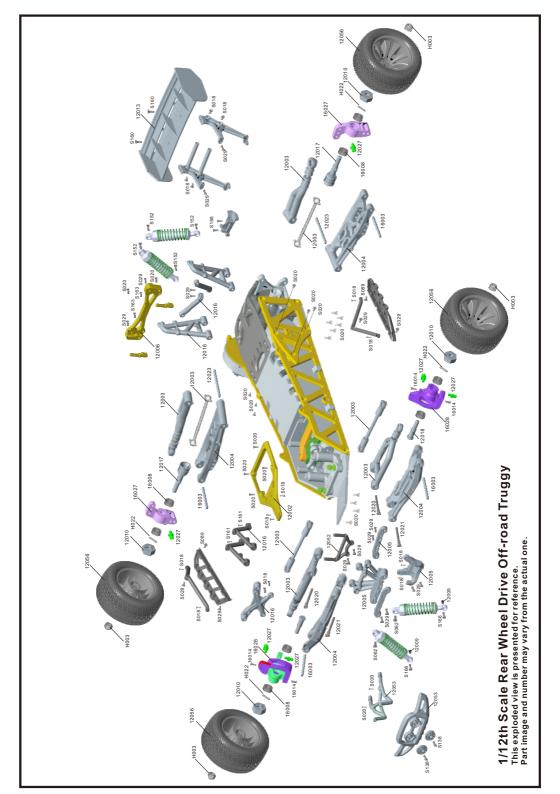


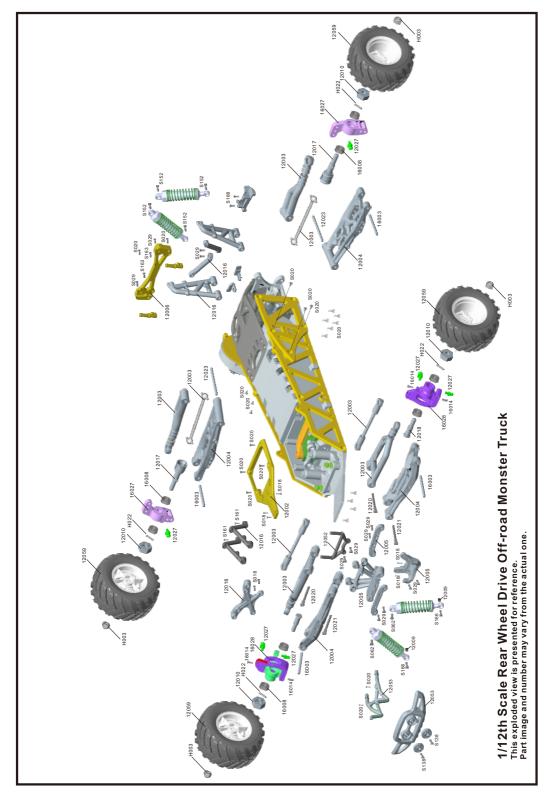
MAIN UNIT ASSEMBLY-2 S061 _S061 S020 S020 **FINISHED**

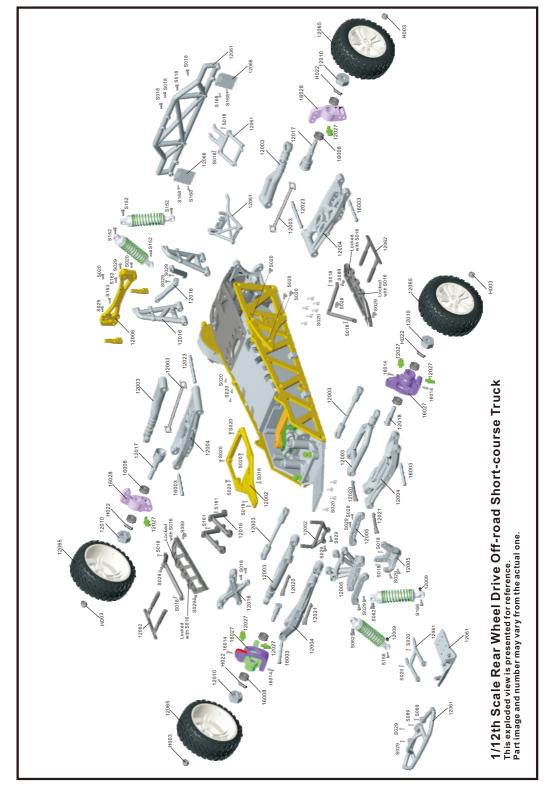


1/12th Scale Rear Wheel Drive Off-road Dune Buggy This exploded view is presented for reference.

Part image and number may vary from the actual one.







Please completely read and understand the entire manual before using, assembling and/or disassembling your remote controlled car.

Thank you for purchasing our product.

This product is an authentic remote controlled vehicle (RC vehicle). It is not a toy. Read and understand this instruction manual thoroughly before operating the vehicle. If you are not familiar with RC vehicles, we recommend that seek out RC experts for reliable advice.



WARNINGS

- -This R/C vehicle is intended for persons over 14 years of age. Children under 14 years of age should only operate this car under supervision by an adult.
- -To avoid losing control of your car, do not operate near other electric remote controlled products.
- -Please operate your vehicle in a spacious area. Never operate your vehicle in crowded street.
- -This product is fully assembled at factory. We do not take any responsibility for damage and/or accidents that occur as the result of custom modifications and/or incorrect operation.