1/10TH SCALE ELECTRIC ROCK CRAWLER

ITEM NO.: 5628

4 WHELENE •4 WHEEL STEERING

The two enginesetup and FM digital 3 channel remote gives the user many options.

4 Steering modes to tack le the roughest of all terrains are easily switchable by one button on the remote control.





Rockcrawling is an extreme form of offiread driving using vehicles anywhere from stock to highly modified to overcome obstades.

The rockgrawler is about slow-speed, careful and precise driving. It often drives up, down and across obstacles that would appear impassable.

Note: The images may vary from the actual received model.

1.Getting ready to know our crawler...

Thank you for purchasing our product.

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

Never run RC models near crowded people or animals, or on public streets or highways. This could cause serious accidents, personal injuries, and/or property damage.

2. Technical Data

-Length: 450mm (Replacing shock locations will change the length.)

-Width: 268mm

-Height:148mm

-Wheelbase:320mm (Replacing shock locations will change the wheelbase.)

-Motor: two RC380 motors

-Wheel Dia: 130mm

-Wheel Width: 55mm

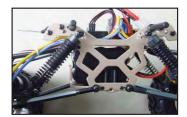
-Servo: two servos, 6kgs, large steering angle

-Gear Ratio: 1:38.6

-Battery: 7.2v, 1500mAh

This data is subject to change without notice in advance as result of product improvement.

3. Main Features



Aluminum side plate and aluminum battery tray allow for durability. Aluminum capped shocks are all oil-filled.



Compact front/rear front top mount provides good protection for the receiver. Two RC 380 motors which are installed to both on front and on rear are of high quality.



Aluminum radio tray offers ESC and receiver reliable installation. High precision ESC w/ cooling fan works good for your crawler.



Skillful front/rear steering linkage set and servo linkage set. Two 6kg servos are installed to both on front and on rear do a good job for steering.



Both front and rear unit can be twisted to an large angle. It allows for smooth crawling on uneven surface.



Solid front/rear axle mount and skillful front/rear steering hubs offer smooth crawling and steering. All ball bearings are throughout the entire crawler.



Crawling tyre of high grip is suitable to drive any tough terrain. Zinc alloy wheel frame is locked to the wheel rim.



unscrew the two screws that on the shock lower mount locked to the lower linkage bar as shown in the figure.



4. Using of the FM radio to your crawler

General information

- -This FM LCD radio controller is the latest version.
- -It is in use for the crawler only.
- -It contains various steering modes which makes the crawler perfect for crawling on roads or rocks.
- -Fully extend its antenna while using it.
- -Always remove batteries from this product if not in use.
- -Various frequencies of FM crystals are available at factory.
- This radio control is a high-precision product and allowed itself to be used with your good care.



Preparation before using



Slide out the battery holding tray to expose the empty battery compartment.

Insert eight AA size batteries into the marked spaces. Please note the correct direction of the batteries.



Insert the antenna into the hole and turn clockwise until it is tightly secured.

Make sure you never over extend the antenna as this will cause it to break.

Extend the antenna while using.

Full function FM radio controller



1	Antenna	
2	LCD screen	
3	Steering Control Wheel	
4	Steering Trim / Reverse Switch	
5	Throttle Trim	
6	Power Switch (Slide it to turn on/off)	
7	Steering Dual Rate Control Dial (D/R)	
8	Trim Switch (for rear wheels)	
9	Trigger	
10	Steering Mode Switch	
11	SEL function button	

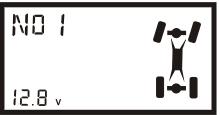
Full function steering modes

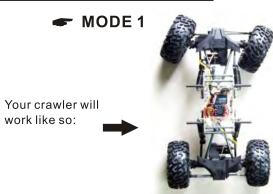
This FM radio controller contains various steering modes which are perfect for the rock crawler.



Press this switch to exchange steering modes.

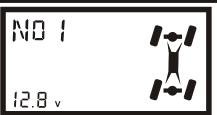
LCD Screen on FM radio controller

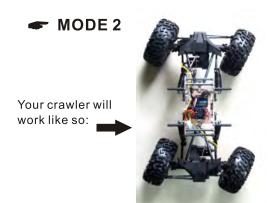




This illustration is your crawler in the situation by performing the first mode on the radio control. Front steering is to turn to the left or right but rear steering remains aligned.

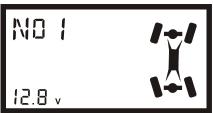
LCD Screen on FM radio controller

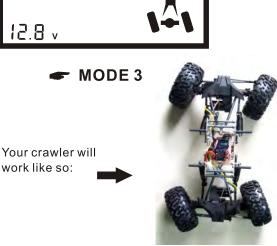




This illustration is your crawler in the situation by performing the second mode on the radio control. Front steering is to turn to the left and rear steering is to do likewise.

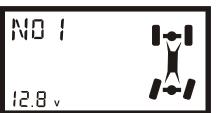
LCD Screen on FM radio controller

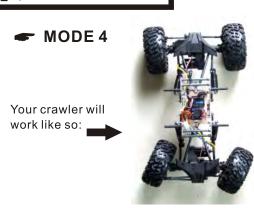




This illustration is your crawler in the situation by performing the third mode on the radio control. Front steering is to turn to the left but rear steering is to turn right.

LCD Screen on FM radio controller





This illustration is your crawler in the situation by performing the fourth mode on the radio control. Rear steering is to turn to the left or right but front steering remains aligned.

Steering Trim / Steering Reverse Function



LCD Screen on FM radio controller





TRM.ST (Steering Trim) range is around 0-10.0% for both left and right steering on front wheels. Tune this switch to select your desired steering trim volume.

To switch to Steering Reverse program:

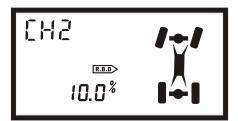
Press **SEL** (Select Button) on your radio once, this LCD display appears Channel 1(NOR.) Tune the SWITCH (Steering Trim /Reverse Switch) to change NOR into REV as shown below:.



Throttle Trim / Throttle Reverse Switch



LCD Screen on FM radio controller





TRM. TH (Throttle Trim) range is around 0-10.0%. Tune this switch to select your desired throttle trim volume.

To switch to Throttle Reverse program:

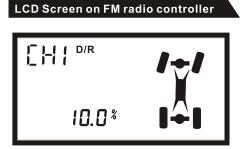
Press **SEL** (Select Button) on your radio once, this LCD display appears Channel 1(NOR.) Tune the SWITCH (Steering Trim /Reverse Switch) to change NOR into REV as shown below:.



Steering Dual Rate Control Dial(D/R)

This dial adjusts the overall travel of the steering servo, push the dial forward for maximum steering. Pull the dial back to reduce steering travel. D/R adjustable range is around 5-10%.

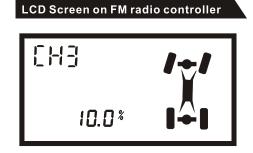




Trim Switch (For rear wheels)

This dial is to centre the rear wheels. The range is around 0-10% on the left or right rear wheel.





Steering Control Wheel



It controls the steering of your rock crawler. Turn the wheel to the right and your crawler turns right. Turn the wheel to the left and your crawler turns left.

Throttle/Brake Trigger



It controls the speed and braking ability of your rock crawler. Pull the trigger to speed up, release the trigger to decelerate, and push the trigger to brake. Pushing the trigger a second time activates the reverse function.

SEL function button

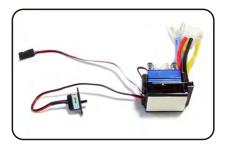
This FM radio controller contains a variety of select functions. Once you press SEL button, different functions will come up in turn with LCD indicators on.

5. Installing electronic components to your crawler

Your crawler is fully assembled at factory. The following is about installing receiver and ESC...

To install the ESC

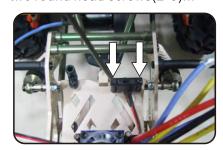
Attach adhesive tape to your ESC...



Install your ESC to the radio tray on your crawler...



Secure the power switch by using two round head screws(2*8)...



To install the receiver

Attach adhesive tape to your receiver...



Install your receiver in place as shown below...



To place all wires

Insert receiver antenna into the antenna retainer...
Tie up the antenna wire.



Connect motor connectors (front /rear motor) to ESC. Yellow line to yellow line, blue line to blue line.



To connect radio system

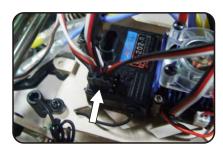
Insert the front servo connector to Channel 1 on the receiver.



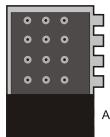
Insert the ESC connector to Channel 2 on the receiver.



Insert the rear servo connector to Channel 3 on the receiver.







Channel 1 (for front servo)

Channel 2 (for ESC)

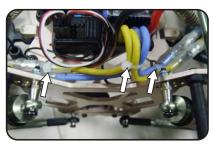
Channel 3 (for rear servo)

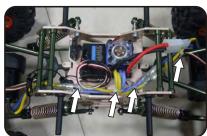
Channel 4

All channels on the receiver

To tie up all wires/connectors

Tie up all wires and connectors by using zip ties.





To remove servo easily

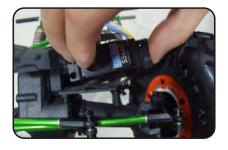
The following illustrations allow for easily removing of the servo from your crawler. (Tips)
You are no need to remove all screws which are used for the servo. Please see the following carefully...



Unscrew the round head self tapping 3*10 as shown in the figure.



Unscrew the round head self tapping 3*8 as shown in the figure.

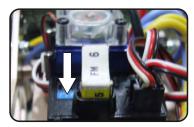


You can remove the servo smoothly from your crawler.

6.To start /stop crawling...

Fully extend radio antenna when using the radio.





Insert the crystal into your receiver.



Power switch on ESC.

To start crawling:

- 1. Switch on the radio control and fully extend the antenna.
- 2. Switch on the power switch on ESC.

To stop crawling:

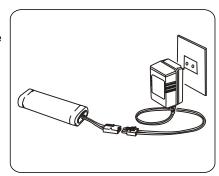
- 1. Switch off the power switch on ESC.
- 2. Switch off the radio control and retract the antenna.

7. Charging your battery for the rock crawler



Never tempt to use this charger to charge the batteries of your transmitter.

- -Use only the specified charger (7.2V,500mA) to charge your battery pack.
- -For better battery performance please discharge your battery before charging it.
- -Never charge your battery over 5-6 hours.
- -Never charge the battery pack unattended.
- -Always use the battery after it is fully charged.



8.Troubleshooting List

Problem	Cause	Remedy
The rock crawler fails to move.	1)Radio controller or receiver is off. 2) Batteries are not placed correctly in the radio. 3) The battery is flat.	1)Turn on both radio and receiver. 2)Place batteries in the radio controller properly. 3) Charge your battery pack.
Servo does not operate normally	1)Transmitter and/or receiver batteries are low. 2) Servo gear stripped or otherwise damaged. 3) Receiver battery is flat.	1) Replace/recharge radio controller and/or receiver batteries 2) Replace with new gear set 3) Recharge receiver battery
Whilst driving the rock crawler, radio system operates erratically.	1)Receiver crystal is loose. 2) Someone operates on same radio frequency. 3) Damage to receiver after a crash	1)Remove and reinstall the receiver crystal 2)Change crystals or relocate and try again 3) Contact your local distributor for repair information
Operating range is short.	1) Radio antenna is retracted. 2) Receiver antenna is not extended. 3) Radio or receiver battery is low.	1) Extend radio antenna fully. 2) Extend receiver antenna fully. 3) Replace/recharge the batteries
Motor does not work.	1)Motor wires loose or damaged. 2) Receiver battery is weak.	1)Double-check motor wires. Repair/replace as necessary. 2) Recharge receiver batteries.
The crawler moves when turned on.	1) Throttle Trim out of adjustment	1) Adjust throttle trim again
Steering works, but throttle does not work	1) Motor wires are loose or damaged. 2) ESC is plugged into wrong receiver slot.	1) Double-check motor wires. Repair/replace as necessary. 2) Plug ESC into the correct receiver slot.

PART NO.: RCT-H001



Aluminum Side Plate(Left/right)

PART NO.: RCT-H002



Aluminum Radio Tray

PART NO.: RCT-H003



Aluminum Battery Tray

PART NO.: RCT-H004



Drive Shaft (Front/rear) L=62.5mm

PART NO.: RCT-H005



2PCSWheel Shaft (Front/rear)

PART NO.: RCT-H006



Motor Pinon Gear(10T) +Grub Screw 2.5*2.5

PART NO.: RCT-H007



2PCS

Optional Motor Pinon Gear(8T) +Grub Screw 2.5*2.5

PART NO.: RCT-H008



Wheel Frame (Zinc Alloy) + Cap Head Screw 2*8(12pcs)

PART NO.: RCT-H009



Aluminum Wheel Hex. + Wheel Pin2*10+Grub Screw 3*3

PART NO.: RCT-H010



2PCS

Aluminum Side Plate Post

PART NO.: RCT-H011



Battery Clasp

PART NO.: RCT-H012



2PCS

Gear Pin-1(Dia.=5mm, L=41mm)

PART NO.: RCT-H013



4PCS

Gear Pin-2 (Dia.=4mm, L=21.6mm)

PART NO.: RCT-H014



8PCS

Front/Rear Upper Linkage Ball Bolt (Dia.=6.3mm)

PART NO.: RCT-H015



8PCS

Shock Set Bush

PART NO.: RCT-H016



8PCS

Front/Rear Upper Linkage Ball Stud (Dia.=5.8mm)

PART NO.: RCT-H017



8PCS

Front/Rear Lower Linkage Ball Stud(Dia.=5.8mm)

PART NO.: RCT-H020



PART NO.: RCT-H018

6PCS

Front/Rear Spur Gear Mount Pin 2*12

PART NO.: RCT-H021

PART NO.: RCT-H019



8PCS

Steering Hub Bush



Linkage Bar Bolt + Linkage Bar Gasket



8PCS

Spring Pad (Inner Dia. 2.5mm) (To install Motor with screws)

PART NO.: H007

PART NO.: RCT-H022



Washers (2.5*5.5*0.5)

8PCS 8PCS Washers(3.1*6*0.5)

PART NO.: 3338-H016



2PCS

Gear Shaft Outdrive Cup (Front/rear)



6PCS

Ball Bearing 5*11*4

PART NO.: H009



4PCS

Ball Bearing 10*15*4

PART NO.: H016



8PCS

Steering Linkage Ball Stud. (Dia.= 5.8mm)

PART NO.: H032



6PCS

Ball Bearing 4*7*2.5

PART NO.: RCT-T001

PART NO.: H036



6PCS

Ball Bearing 8*16*5

PART NO.: H049



6PCS

Ball Bearing 4*9*4



2PCS

Front/Rear Lower Linkage Set + Ball Stud.

PART NO.: RCT-T004

PART NO.: RCT-T002



Front/Rear Upper Linkage Set + Ball Stud.

PART NO.: RCT-T003



2PCS

Front/Rear Steering Linkage Set +Ball Stud.



2PCS

Front/Rear Servo Linkage Set +Ball Stud.

PART NO.: RCT-P001

PART NO.: RCT-T005



2PCS

Front/Rear Shock Set

PART NO.: RCT-T006



Front/Rear Spur Gear Complete



Front/Rear Top Mount

PART NO.: RCT-P002



Servo Plate+Servo Mount+ Shock Lower Retainer 2P (to be locked to lower linkage bars)

PART NO.: RCT-P003



Front/rear Gear Box Housing + Guard Cover

PART NO.: RCT-P004



Front/Rear Axle Assembly

PART NO.: RCT-P005



Spur Gear(47T)+Driven Gears+Gear Gasket +Gear Seal Set + Gear Casing

PART NO.: RCT-P006



Front/rear Steering Hub(left/right) +Linkage Set Kit

PART NO.: RCT-P007



Servo Arm+Battery Mount+Power ESC Switch Mount+ Antenna Mount

PART NO.: RCT-P008



Body Post

2PCS

PART NO.: RCT-P009



Spoke Wheel Rim

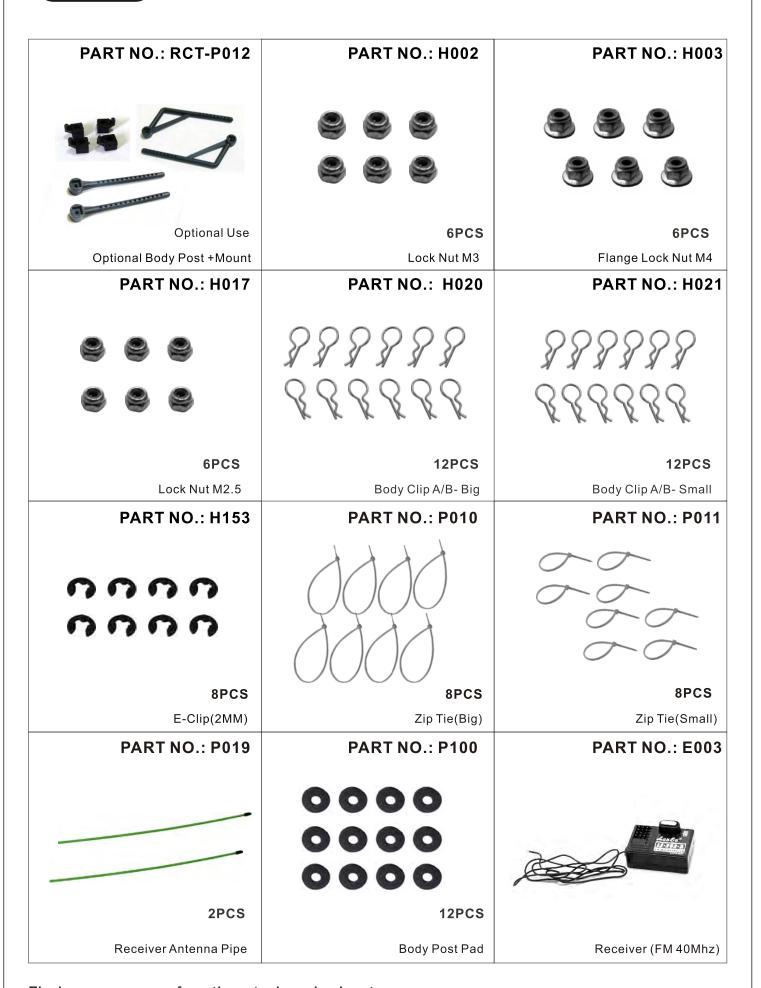
PART NO.: RCT-P010



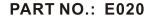
Tires(Left +Right) w/ Sponge Insert

PART NO.: RCT-P011





PART NO.: E003A



PART NO.: E021



Optional use

7.2V 500mA-600mA

Charger (America Standard)



Optional use

500mA-600mA

Charger (Europe Standard)

Receiver (FM 27Mhz)

PART NO.: E022



PART NO.: E039T



Optional use

7.2V 500mA-600mA

Charger (Australia Standard)



Optional use

7.2V 500mA-600mA

Charger (UK Standard)



Front Motor (Yellow wiring is to negative, Blue wiring is to positive)

RC 380 Motor (Casing in black)

PART NO.: E120

PART NO.: E039R



Rear Motor (Blue wiring is to negative, Yellow wiring is to positive)

RC 380 Motor (Casing in black)



Rechargeable Battery Pack 7.2V,1500mAH



Optional Use

Crystals (Radio/Receiver)-FM40MHz

PART NO.:E121



Optional Use

Crystals (Radio/Receiver)-FM27MHz

PART NO.: E207

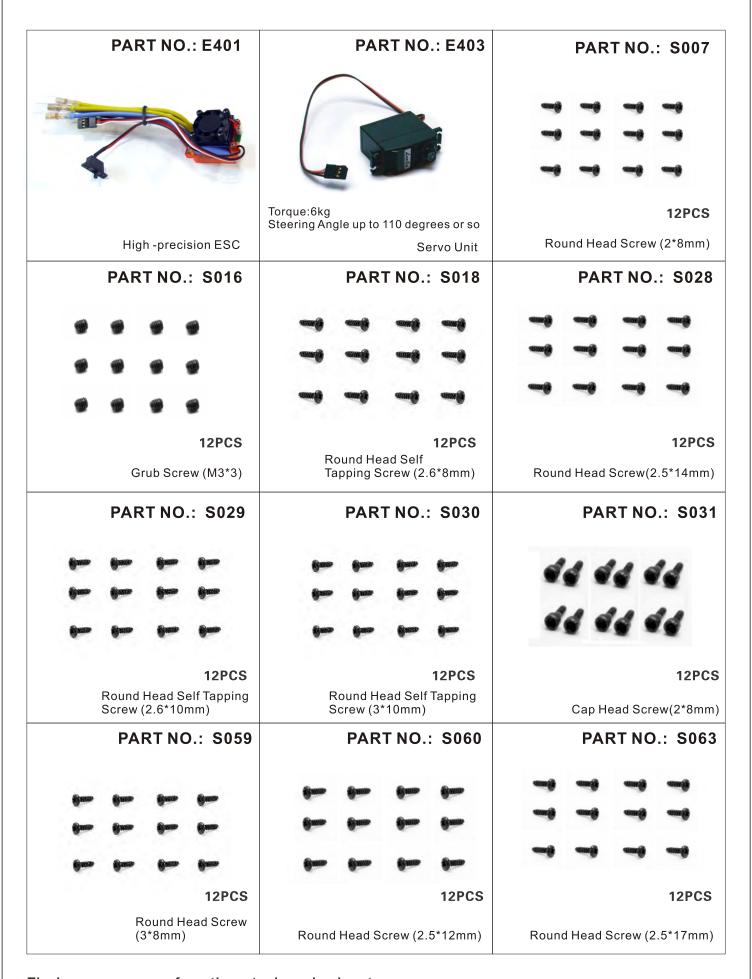


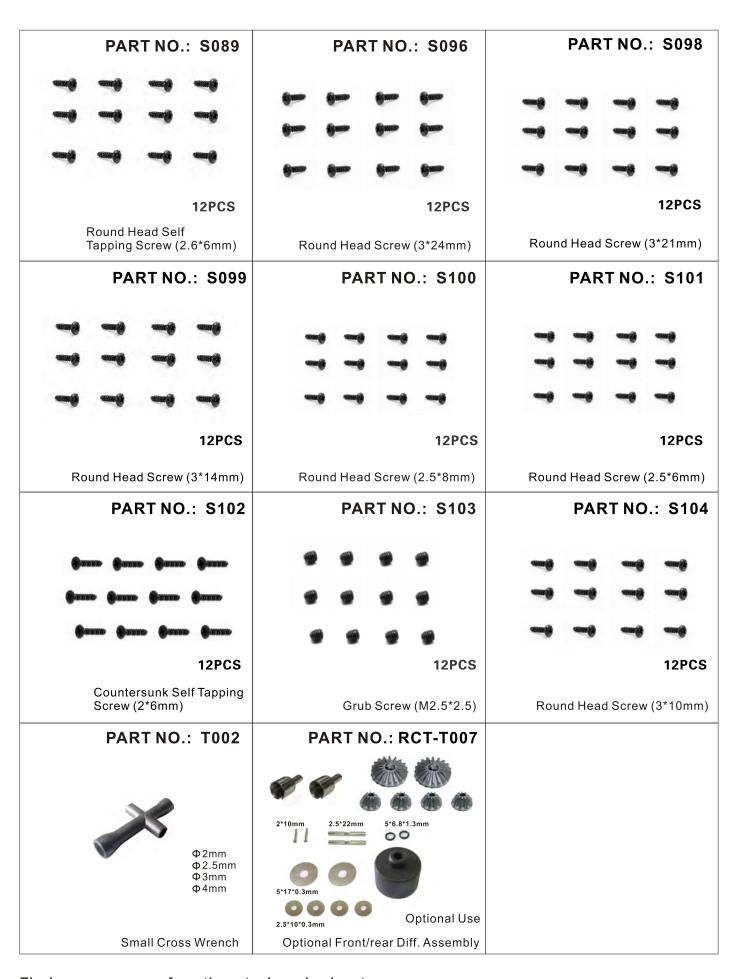
LCD Radio Control (FM 40MHz)

PART NO.: E208



LCD Radio Control (FM 27MHz)



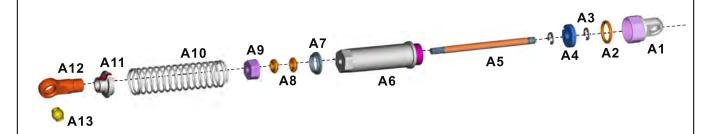


The images may vary from the actual received parts.

Assembly Diagram-1

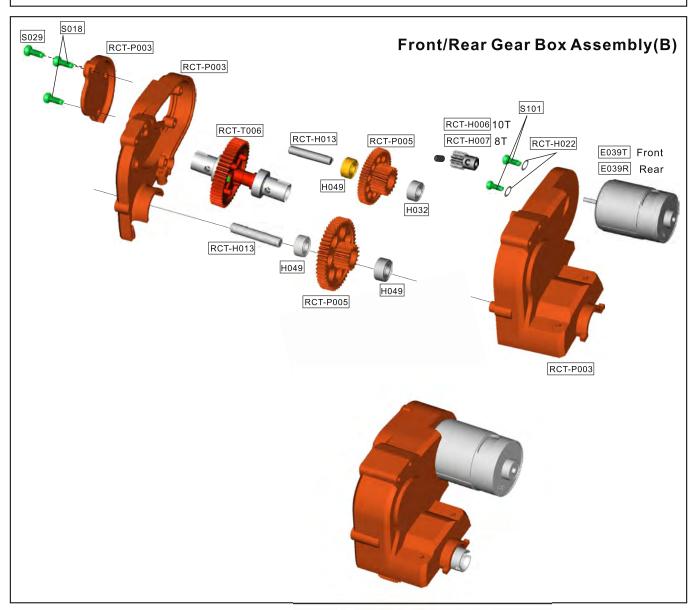
Shock Assembly (A)

RCT-T005



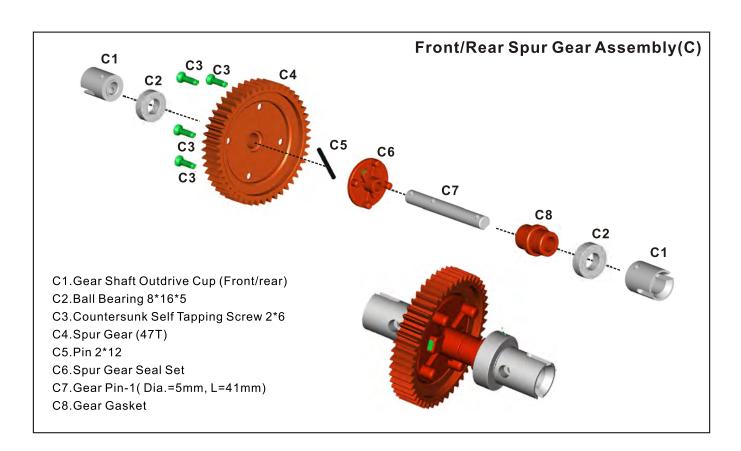
Tips:

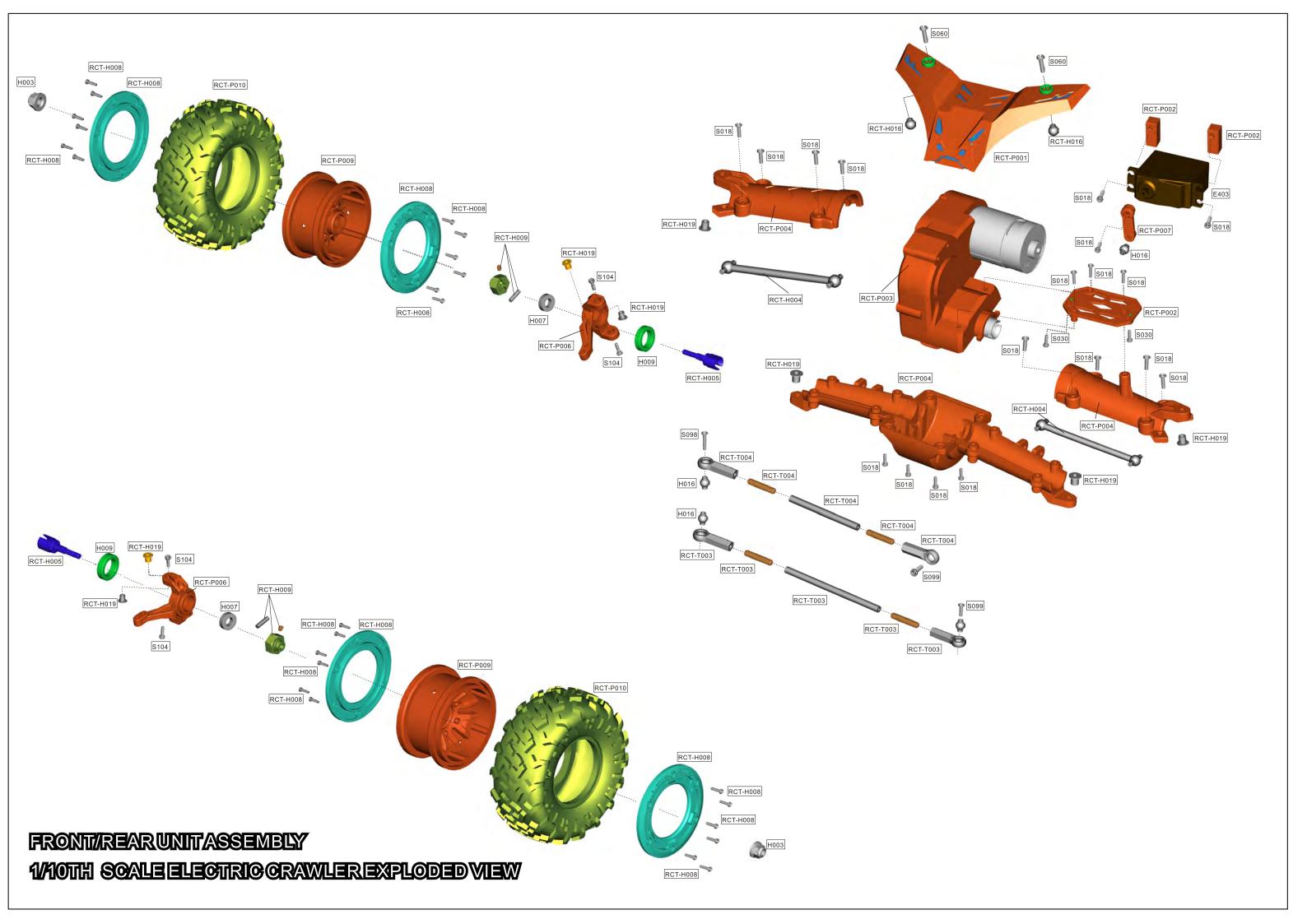
Changing the shock oil (the oil inside the shocks) will change their damping characteristics. Typically, if you are running on smooth surfaces, use a heavier weight oil. If you are running on rough surfaces, use a lighter weight oil. We recommend using only 100% silicone shock oil.

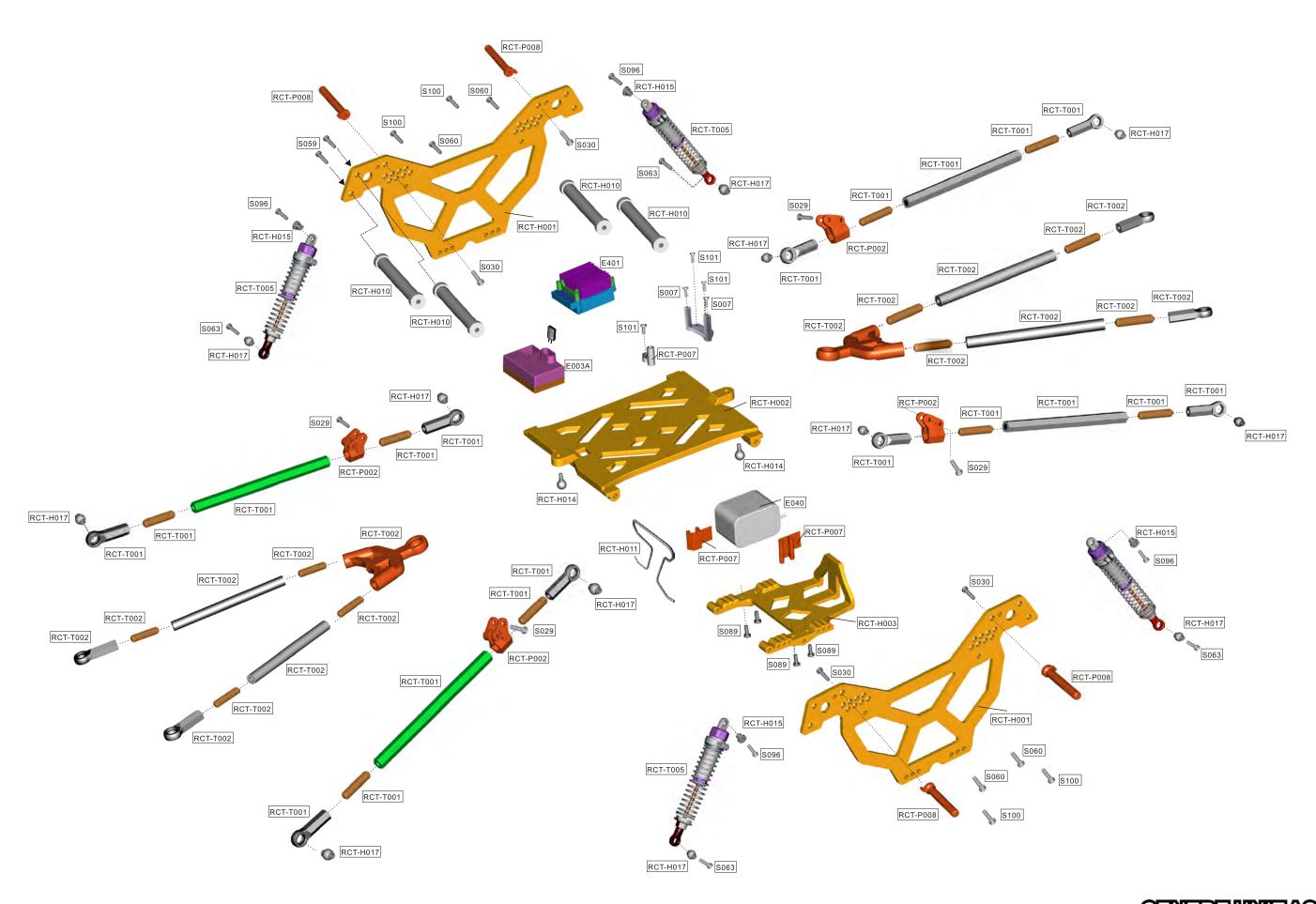


The images may vary from the actual received parts.

Assembly Diagram-2







CENTRE UNITASSEMBLY 1/10TH SCALE ELECTRIC CRAWLER EXPLODED VIEW

- -Please read and understand all instructions in the manual before running and assembling or disassembling this product. A novice user should seek help from experienced hobby operators or local hobby shop staff.
- -Always disconnect your battery pack before tempting to re-install your radio system.
- -Keep away from children when you are assembling or disassembling the vehicle as it contains many small parts that might be dangerous to children.
- -Always turn off your radio when it is not in use for a long period of time.
- -In order to prevent battery leakage please remove all battery from your radio if not in use.
- -Do not share the same frequency with somebody else when they are using RC products. If it is the case, keep away from them. Otherwise, it will cause signal confusion and do damage to your models and/or your body.
- -For better radio performance fully extend the antenna on your radio controller.
- -Never charge your rechargeable battery pack unattended.
- -Always dispose of damaged parts into the recycle center.



1/10TH SCALE ROCK CRAWLER

Thank for purchasing our product.

This product is an authentic controlled vehicle (RC vehicle) and it is not a toy. Read and under stand this instruction manual thoroughly before the model. If you are not familiar with RC vehicles, we recommend that you ask RC experts for advice.