MODEL: RS10 XT

1/10 SCALE ROCK CRAWLER

ROCKSLIDE RS10 XT OWNERS MANUAL

Redcat

Fast • Affordable • Fun

RC CARS & TRUCKS

1. Before Using The RS10XT

Thank you for purchasing the Redcat Racing RS10XT rock crawler.

The RS10XT is a hobby grade vehicle and is not a toy. Please read the entire manual before attempting to operate this vehicle.

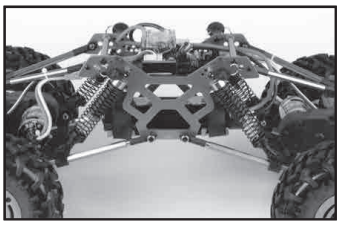
Before running the RS10XT, please look over the entire vehicle to ensure there are no damaged or loose parts. Once the vehicle has been used, we can only assume broken parts are a result of improper use. Be sure to check the vehicle over before use.

2. Technical Data

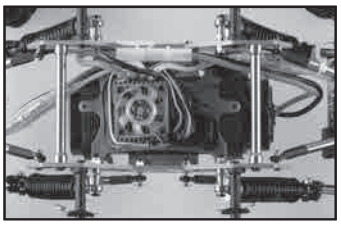
- Length: 450mm
- Width: 268mm
- Height: 148mm
- Wheelbase: 317mm-320mm (adjustable)
- Motor: Two RC390 motors
- Wheel Dia: 130mm
- Wheel Width: 55mm
- Servo: Two 15kg servos
- Gear Ratio: 1 :38.6 (10T motor pinion used),
  1 :48.2 (8T motor pinion used)
- Battery: Ni-MH 7.2v, 1800mAH (stick battery)

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

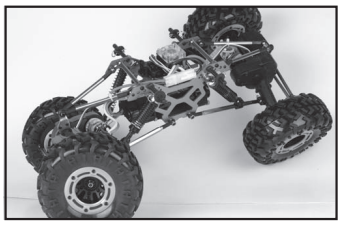
3. Main Features



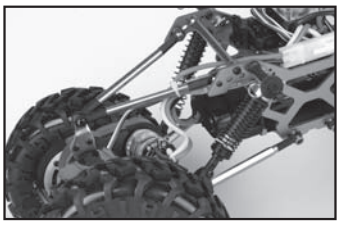
- Aluminum side plates
- Rigid radio plate
- Low C.O.G battery tray (holds stick battery)



- Computer radio with four wheel steering.
- Crawler ESC w/ Cooling Fan

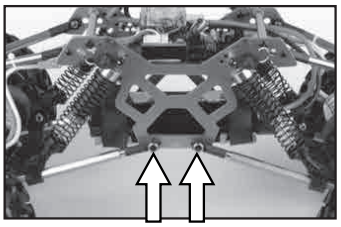


- Lots of articulation enables the RS10XT to maneuver the toughest terrain.

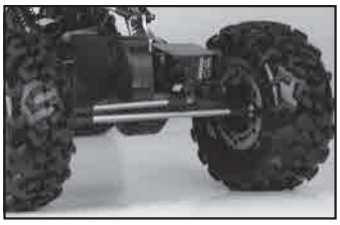


- Updated 4-link suspension design offers the ultimate in crawling performance.

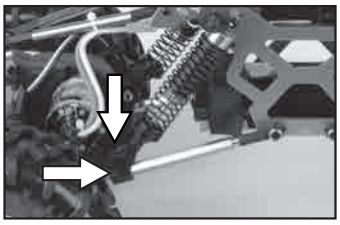
- Authentic aluminum bead-lock rims secure the tires during hard core off-road use.



- Adjustable wheel base provides many setup options. There are three mounting options on the lower frame rail.



- Two 15KG Servos perform reliable steering tasks, Servo/Motor-on-axle design puts the weight where you need it.



- Shock location can also be adjusted as desired. Unscrew the lower mount and adjust it in or out towards your desired position.

4. Using the 2.4GHz radio system

☛ General information

-2.4GHz transmitter and receiver.

- Full functional, computer transmitter, with LCD screen.

- Four steering modes for extreme versatility.

-Always remove batteries from this product when not in use.

-Do not mix old and new batteries. Do not mix alkaline batteries,

standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.

☛ Preparation before using

-Slide out the battery cover to expose the empty battery compartment. Insert four AA size batteries ensuring the (+) side of each battery corresponds with the (+) mark on the battery tray.

-Do not damage or deform the antenna on the transmitter or receiver, this may cause signal loss.

☛ Full functional 2.4GHz transmitter

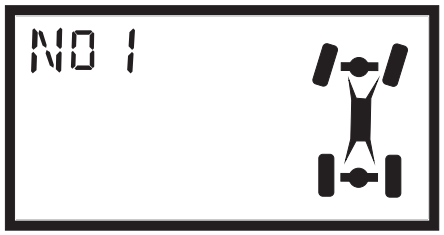
1	Antenna
2	LCD screen
3	Steering Wheel
4	Steering Trim / Reverse Switch
5	Throttle Trim
6	Power Switch (Slide it to turn on/off)
7	Steering Dual Rate Control Dial (D/R)
8	Trim Switch (for rear wheels)
9	Trigger
10	Steering Mode Switch
11	SEL function button

Full function steering modes

This 2.4GHz transmitter contains various steering modes, which are perfect for the rock crawler.

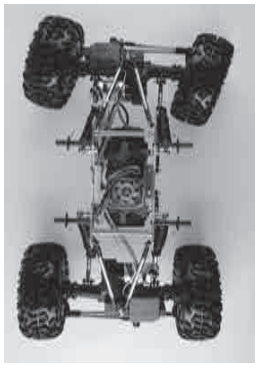
Press this button to toggle steering modes.

LCD screen on the transmitter



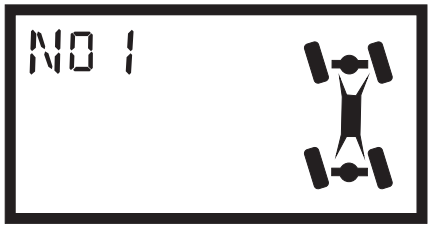
MODE 1

Front wheel steering



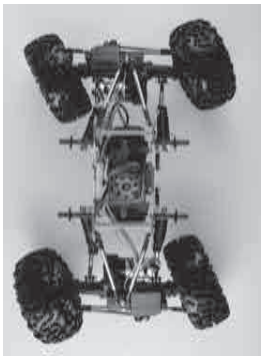
Mode 1 engages front wheel steering only.
The rear steering remains straight.

LCD screen on the transmitter



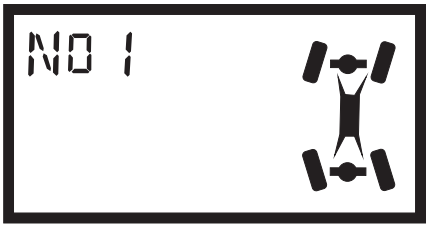
MODE 2

Four wheel steering
- wheels in the same direction



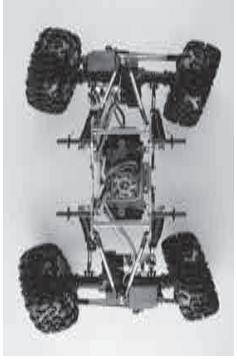
Mode 2 engages front and rear wheel crab steer.
Both the front and rear wheels steer in the same direction, allowing the RS10 to drive sideways.

LCD screen on the transmitter



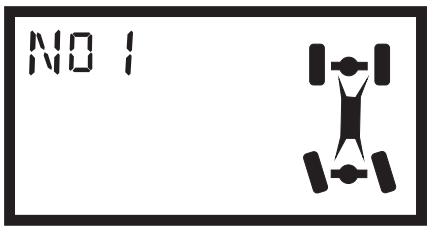
MODE 3

Four wheel steering
- wheels in opposite direction



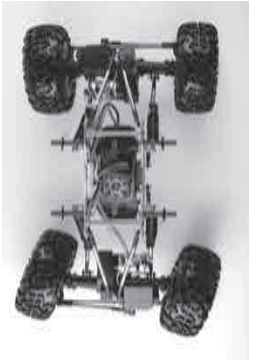
Mode 3 engages 4-wheel steering.
The front and rear wheels steer in the opposite direction, allowing the RS10 to turn in a tight radius.

LCD screen on the transmitter



MODE 4

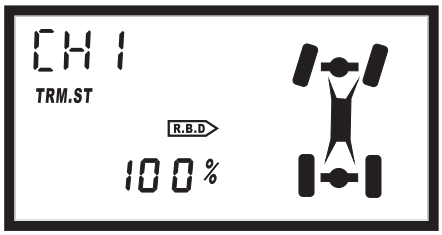
Rear wheel steering

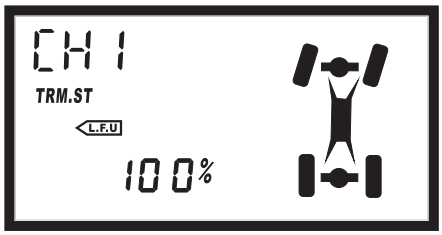


Mode 4 engages rear wheel steering only.
The front steering remains straight.

Steering Trim/Steering Reverse Function

LCD screen on the transmitter





TRM.ST (Steering Trim) range is around 0-100% for both left and right steering on the front wheels. Toggle this switch to select your desired steering trim volume.

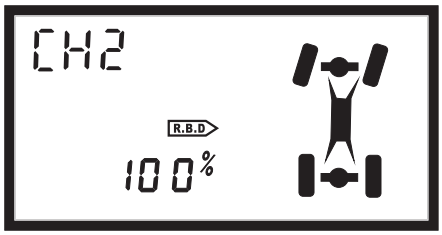
To Reverse Steering:

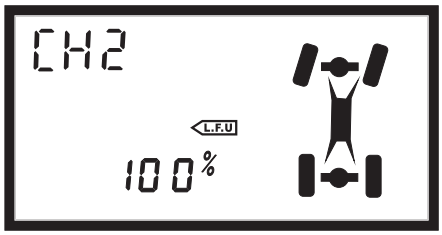
Press SEL (Select Button) on your radio once, the LCD display appears as Channel 1 (NOR.)

Toggle the SWITCH (Steering Trim /Reverse Switch) to change from NOR to REV as shown below:

Throttle Trim/Throttle Reverse Switch

LCD screen on the transmitter



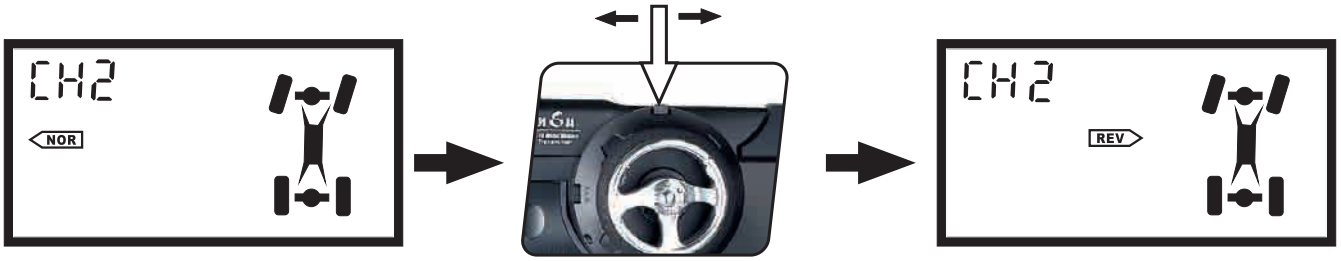


TRM. TH (Throttle Trim) range is around 0-100%. Toggle this switch to select the desired throttle trim amount.

To Reverse Throttle:

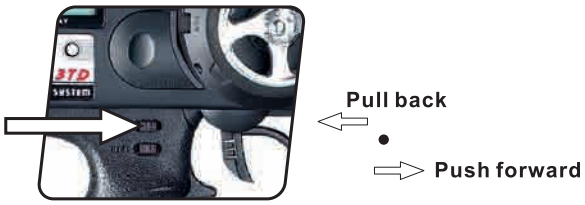
Press SEL (Select Button) on your radio until the LCD display appears as Channel 2 (NOR.)

Toggle the SWITCH (Steering Trim /Reverse Switch) to change from NOR to REV as shown below:

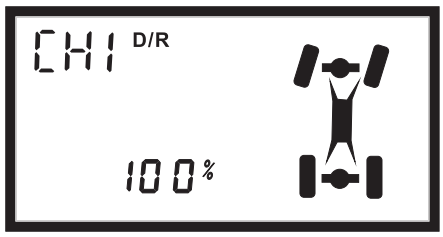


Steering Dual Rate (D/R)

This lever adjusts the overall travel of the steering servo, push the lever forward for maximum steering. Pull the lever back to reduce steering travel. D/R adjustable range is around 5-100%.



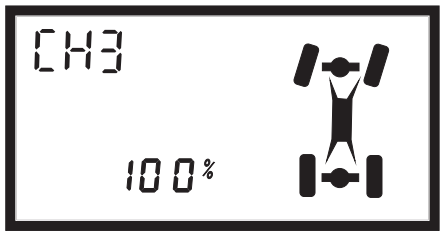
LCD screen on the transmitter



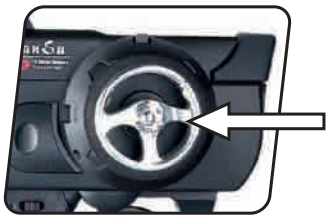
Trim Switch (For Rear Wheels)

This dial is to center the rear wheels. The range is 0-100% in either direction.

LCD screen on the transmitter

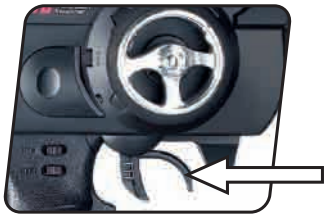


Steering Wheel



Controls steering. Turn the wheel to the right and the crawler turns right. Turn the wheel to the left and the crawler turns left.

Throttle/Brake Trigger



Controls forward motion, braking, and reverse. Pull the trigger to move forward, release the trigger to decelerate, and push the trigger to brake.
Pushing the trigger a second time activates the reverse function.

SEL Function Button

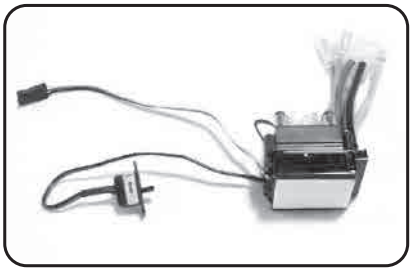
This 2.4GHz transmitter contains various select functions. While pressing the SEL button, the transmitter will cycle through the different functions with each touch of the button.

5. ESC And Receiver Placement

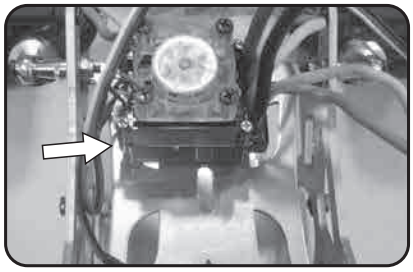
The RS10XT is a fully assembled RTR vehicle. The following is intended to familiarize you with the placement of electrical components.

Electronic Speed Controller (ESC)

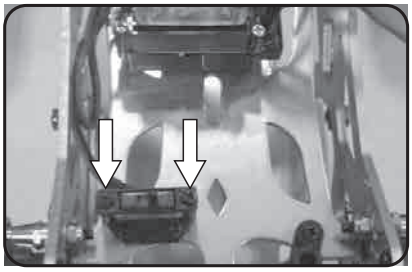
The ESC is attached to the radio tray with foam mounting tape.



If you remove the ESC, clean off the old tape residue and use a new piece of foam mounting tape to re-install.

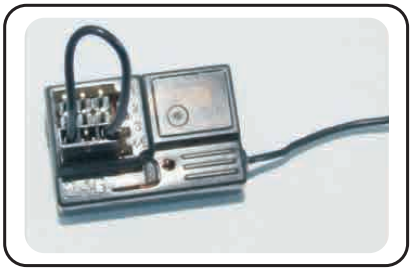


The power switch is secured with two self tapping screws. (2*6mm)- Screw No.: S093

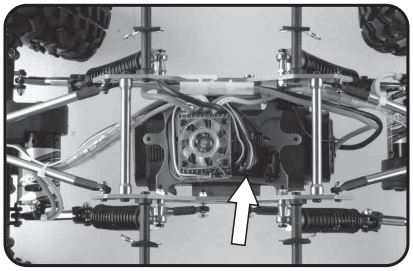


Receiver

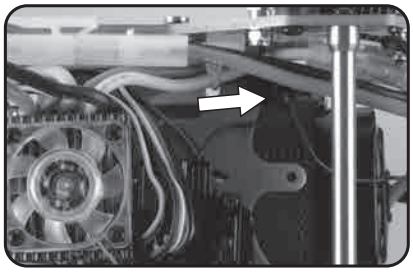
The 2.4GHz receiver is attached to the radio tray with foam mounting tape.



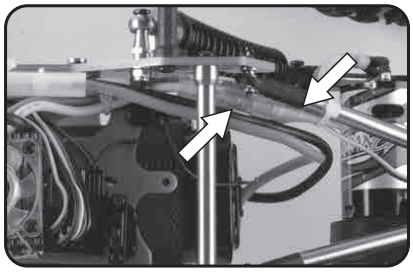
If you remove the receiver, clean off the old tape residue and use a new piece of foam mounting tape to re-install.



Slide the receiver antenna through the antenna mount (see the photo). Install the antenna tube (found in the package.) over the antenna and insert into the antenna mount.

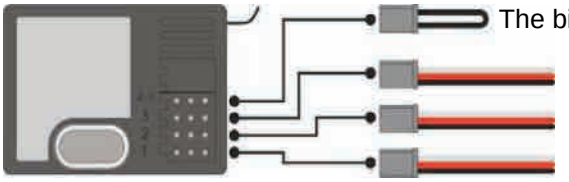


The motor connectors (front/rear motor) are secured to the chassis with plastic ties. Be sure the yellow motor wire is connected to the yellow ESC wire and blue to blue.

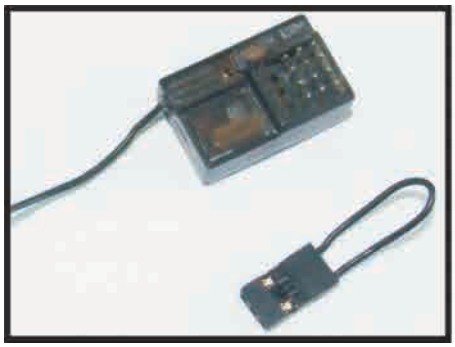


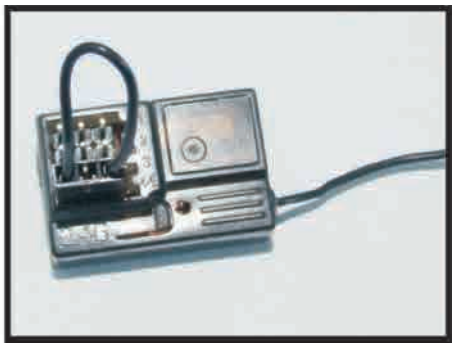
Splash-proof Receiver

The new splash-proof 2.4Ghz receiver is provided with an extra binding plug.



The binding plug (to Channel 4)





How to bind the receiver with the transmitter?

1) Insert the bind plug into Channel 4 before switching on the receiver.

2) Switch on the receiver. The LED light will flash.

4) Press and hold the SEL button on the transmitter.

The LED on the receiver will continue to flash. The radio is binding.

When the receiver's LED is lit solid, binding is complete.

Note: Repeat the above steps if binding fails.

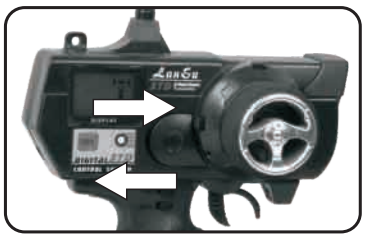
5) Center the steering trim on the transmitter after binding is complete to set fail safe.

6) Remove the binding plug.

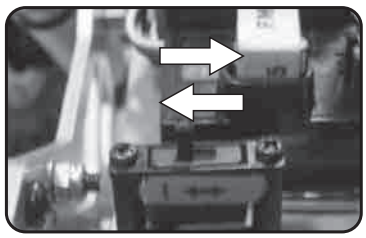
LED Indicator:

- RAPID FLASHING: BINDING IS IN OPERATION.
- SLOW FLASHING: NO SIGNAL WAITING FOR OPERATION
- SOLID LIGHT: IN OPERATION
- NO LIGHT: RECEIVER IS OFF, BATTERY IS DEAD OR MISSING, RECEIVER IS DISCONNECTED OR BROKEN

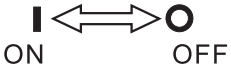
6. Turning the vehicle on/off



Transmitter Power Switch



ESC power switch



To turn the vehicle on:
1. Switch on the transmitter.
2. Switch on the ESC power switch.

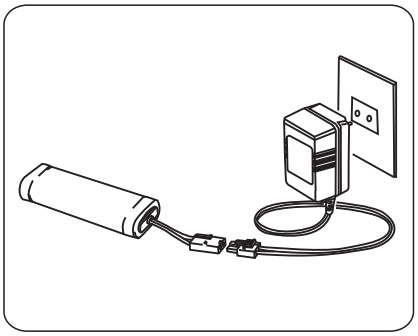
To turn off the vehicle:
1. Switch off the ESC power switch.
2. Switch off the transmitter.

Remember to remove the batteries from the vehicle and transmitter when not in use.

7. Charging the NiMH battery

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

- Only use NiMH specific chargers to charge Ni-MH battery packs.
- Never overcharge your Ni-MH battery packs.
- Never charge the battery pack unattended.
- Always use the battery after it is fully charged.



8. Troubleshooting Guide

PROBLEM	CAUSE	REMEDY
Your RS10XT rock crawler fails to move.	1) Transmitter or receiver is off. 2) Batteries are not placed correctly in the transmitter. 3) Battery pack on the car is low. 4) Transmitter and receiver are not bound correctly.	1) Turn both transmitter and receiver on. 2) Correctly align batteries in the transmitter. 3) Charge the battery pack. 4) Bind the transmitter and receiver.
Servo does not operate normally.	1) Transmitter and/or receiver batteries are low. 2) Servo gears stripped or otherwise damaged.	1) Replace/recharge transmitter and/or receiver batteries. 2) Replace servo or servo gears.
Radio operates erratically.	1) Transmitter batteries are low. 2) Radio is damaged from dropping.	1) Replace transmitter batteries. 2) Replace transmitter/receiver.
Operating range is short.	1) Transmitter batteries are low.	1) Replace transmitter batteries.
Motor does not work.	1) Motor wires loose or damaged.	1) Double-check motor wires. Repair/replace as necessary.
The crawler moves when turned on.	1) Throttle Trim is 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 incorrectly plugged into the receiver.	1) Check motor wires. Plug in correctly and/or repair damage. 2) Plug the ESC into the receiver correctly.

PART LIST-1

RCT-H001

Aluminum Side Plate (left/right)

RCT-H111

Upper Link Mounts + Screws 4pcs(Round Head Self Tapping Screw 2.6*8mm) + Screws 2pcs (Round Head Screw 2.5*17mm) + Washers 2pcs (2.5*5.5*0.5)

RCT-H112

Radio Tray+ Stick Battery Plate + Battery Strap+Screws 4pcs (Round Head Screw 2.5*6) + Nuts 4pcs (M2.5)

RCT-H004

2P

Drive Shaft (front/rear) L=62.5mm

RCT-H005

2P

Wheel Shaft (front/rear)

RCT-H007

2P

Motor Pinion Gear(8T)+ Set Screw 2.5*2.5mm

RCT-H008

Wheel Frame(metal)+Cap Head Screw 2*8mm(12pcs)

RCT-H009

4P

Aluminum Wheel Hex.+ Wheel Pin 2*10mm+Set Screw 3*3mm

RCT-H010

2P

Aluminum Side Plate Post

RCT-H012

2P

Gear Pin-1 (Dia.: 5mm, Length 41mm)

RCT-H013

4P

Gear Pin-1 (Dia.:4mm, Length 21.6mm)

RCT-H015

8P

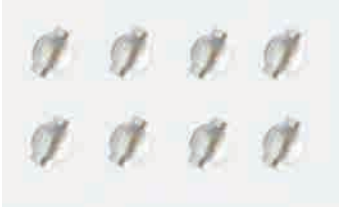
Shock Set Bush

RCT-H016

8P

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

RCT-H017



8P

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

RCT-H018

6P

Front/Rear Spur Gear Mount Pin 2*12mm

RCT-H019

8P

Steering Hub Bush

PART LIST-2

RCT-H020A

Linkage Bar Bolt

RCT-H021

Spring Pad(Inner Dia.:2.5mm)
(apply to motor with screws)

RCT-H022

Washer(2.5*5.5*0.5mm) 8P
Washer (3.1*6*0.5mm) 8P

3338-H016

2P

Gear Shaft Outdrive Cup
{front/rear)

H007

6P

Ball Bearing 5*11*4mm

H009

4P

Ball Bearing 10*15*4mm

H016

8P

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

H032

6P

Ball Bearing 4*7*2.5mm

H036

6P

Ball Bearing 8*16*5mm

H049

6P

Ball Bearing 4*9*4mm

RCT-T001

Front/rear Lower Linkage Set
+4PCS of Ball Stud.
(RCT-H017)

RCT-T003

Front/rear Steering Linkage
Set+4pcs of Ball Stud. (H016)

RCT-T004

Front/rear Servo Linkage Set
+4PCS of Ball Stud. (H016)

RCT-T005

Front/Rear Shock Set

RCT-T006

Front/Rear Spur Gear Complete

RCT-T020

Front/Rear Upper Linkage Set
+ 3pcs of Ball Stud.(RCT-H016)
+1pcs of Ball Stud. (RCT-H017)

PART LIST-3

RCT-P002

Servo Plate+Servo Mount+
Shock Lower Retainer 2P

RCT-P003

Front/rear Gear Box Housing +
Dust Cover

RCT-P004

Front/rear Axle Assembly

RCT-P005

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

RCT-P008

Body Post

RCT-P011

2P

One Pair
Wheel Complete (left/right)

RCT-P060

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

RCT-P070

Sero Arm+Power Switch Mount
+Antenna Mount

H002

6P

Lock Nut M3

H003

6P

Flange Lock Nut M4

H017

6P

Lock Nut M2.5

H020

12P

Body Clip A/B-Big

H021

12P

Body Clip A/B-Small

H153

8P

E-Clip (2MM)

H205

8P

Lower Linkage Washer
(2.5*7*1.5mm)

P011

8P

Zip Tie (Small)

PART LIST-4

P019

2P

Receiver Antenna Tube

P100

12P

Body Post Pad

01003-CHARGER-T

U.S. Standard Ni-MH Battery Charger

E600T

RC390 Motor (Front)
Yellow Wire (-), Blue Wire(+)

E600R

RC390 Motor (Rear)
Blue Wire (-), Yellow Wire(+)

HX-2200MH-T

Optional Reachable NiMh Battery Pack 7.2V, 2200mAh

3CH-24GHz-RADIO

3 Channel 2.4GHz Radio with Receiver

E710

Receiver

E401

Crawler ESC

HX-15CS

15KGs Metal Gear Servo

RCT-T007

Optional Front/rear Diff. Assembly

RCT-H106

Optional Steer Gear Kit (motor pinion is 10T)

S016

12P

Set Screw (M3*3mm)

S018

12P

Round Head Self Tapping Screw (2.6*8mm)

S028

12P

Round Head Screw (2.5*14mm)

S029

12P

Round Head Self Tapping Screw (2.6*10mm)

PART LIST-5

S030

12P

Round Head Self Tapping
Screw (3*10mm)

S031

12P

Cap Head Screw (2*8mm)

S059

12P

Round Head
Screw (3*8mm)

S060

12P

Round Head
Screw (2.5*12mm)

S063

12P

Round Head
Screw (2.5*17mm)

S089

12P

Round Head Self Tapping
Screw (2.6*6mm)

S093

12P

Round Head Self Tapping
Screw (2*6mm)

S098

12P

Round Head
Screw (3*21mm)

S099

12P

Round Head
Screw (3*14mm)

S100

12P

Round Head
Screw (2.5*8mm)

S101

12P

Round Head
Screw (2.5*6mm)

S102

12P

Countersunk Self Tapping
Screw (2*6mm)

S104

12P

Round Head
Screw (3*10mm)

S027

12P

Round Head
Screw (2.5*10mm)

S015

12P

Step Set Screw (3*3-2*7mm)

S096

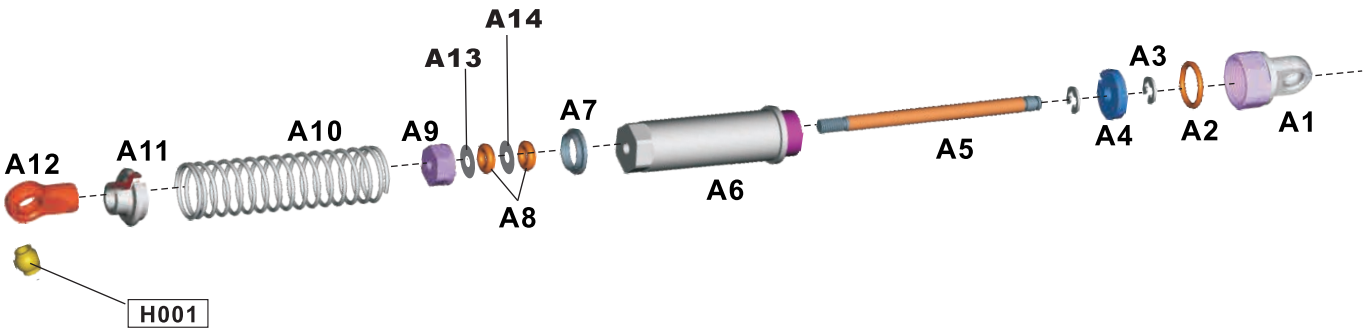
12P

Round Head
Screw (3*24mm)

Assembly Diagram-1

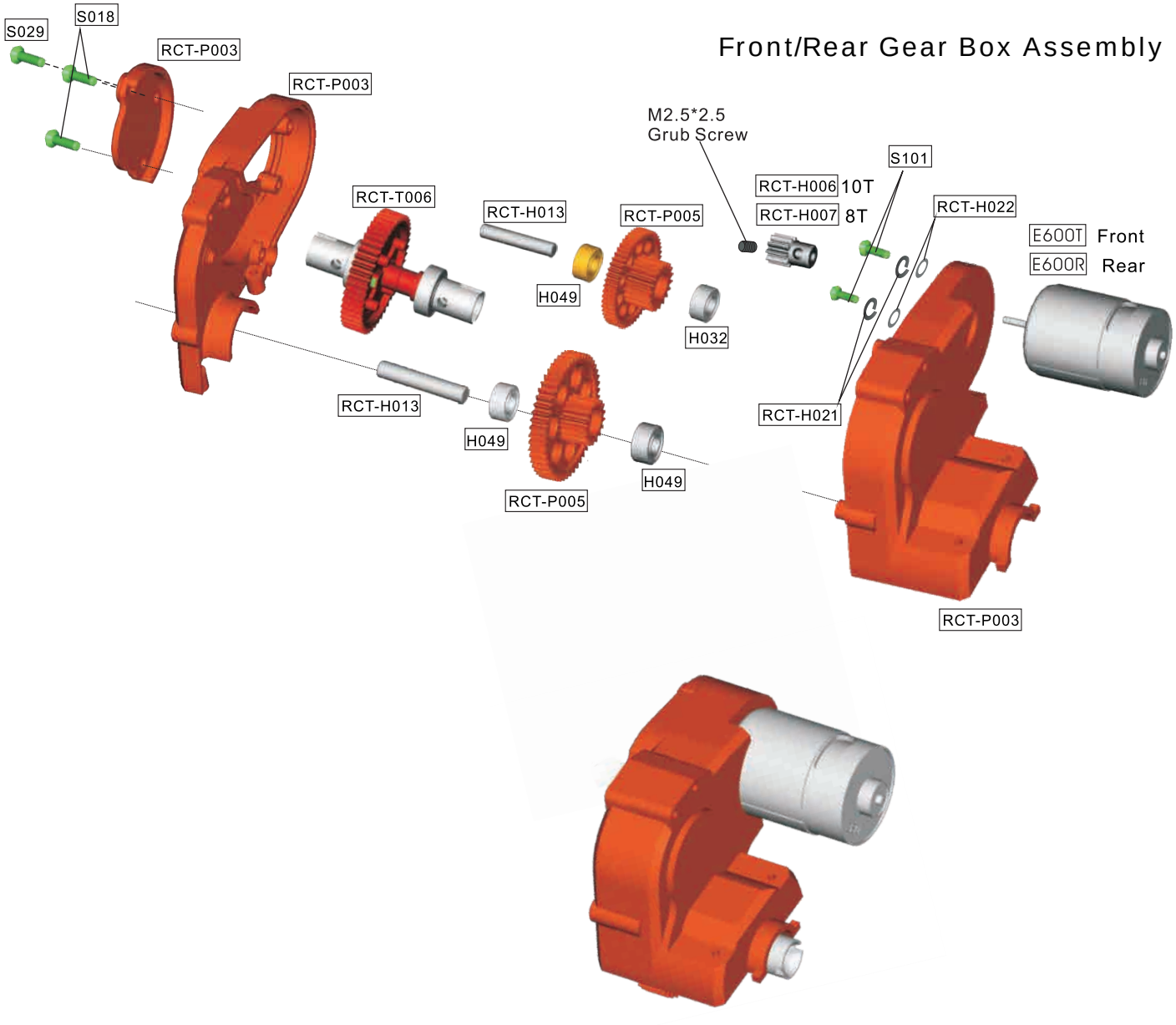
Shock Assembly

RCT-T005

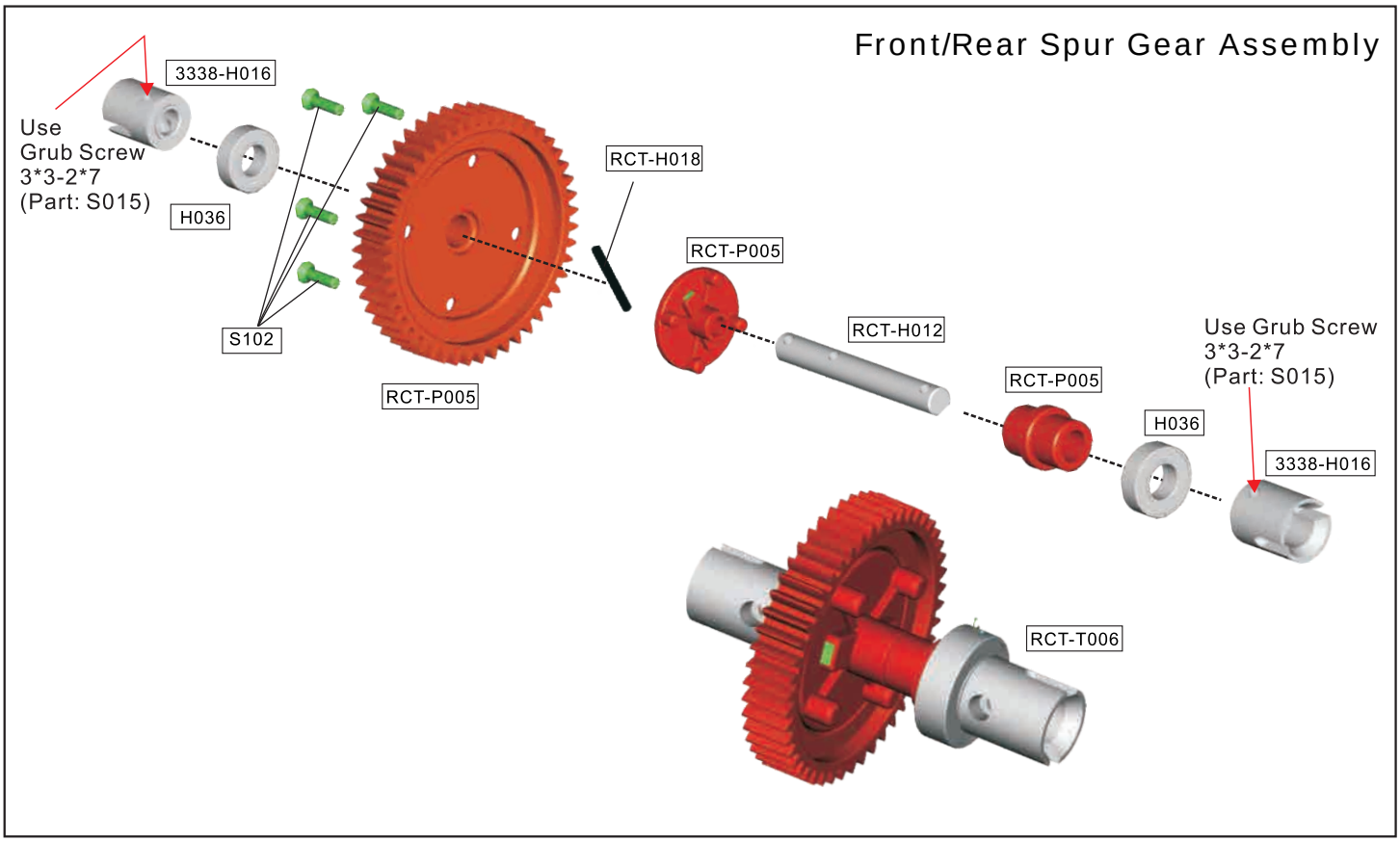


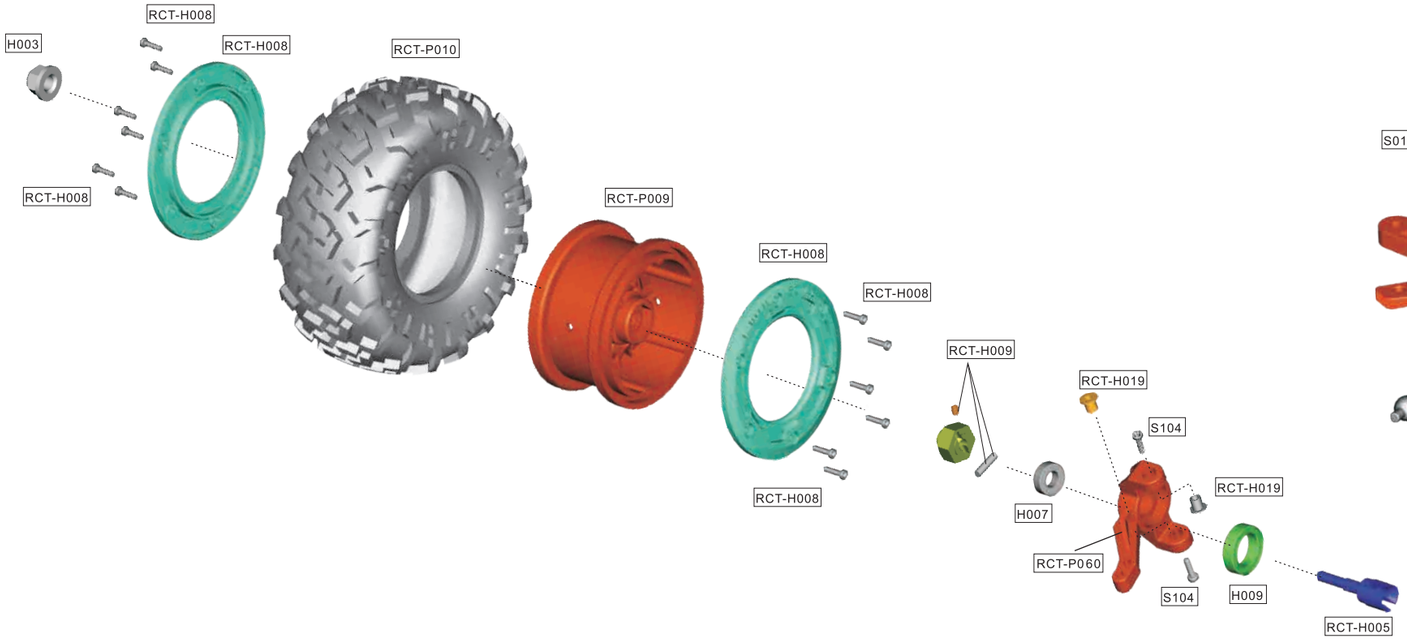
A13: washer (3*6*0.15mm)
A14: washer (3*6*0.5mm

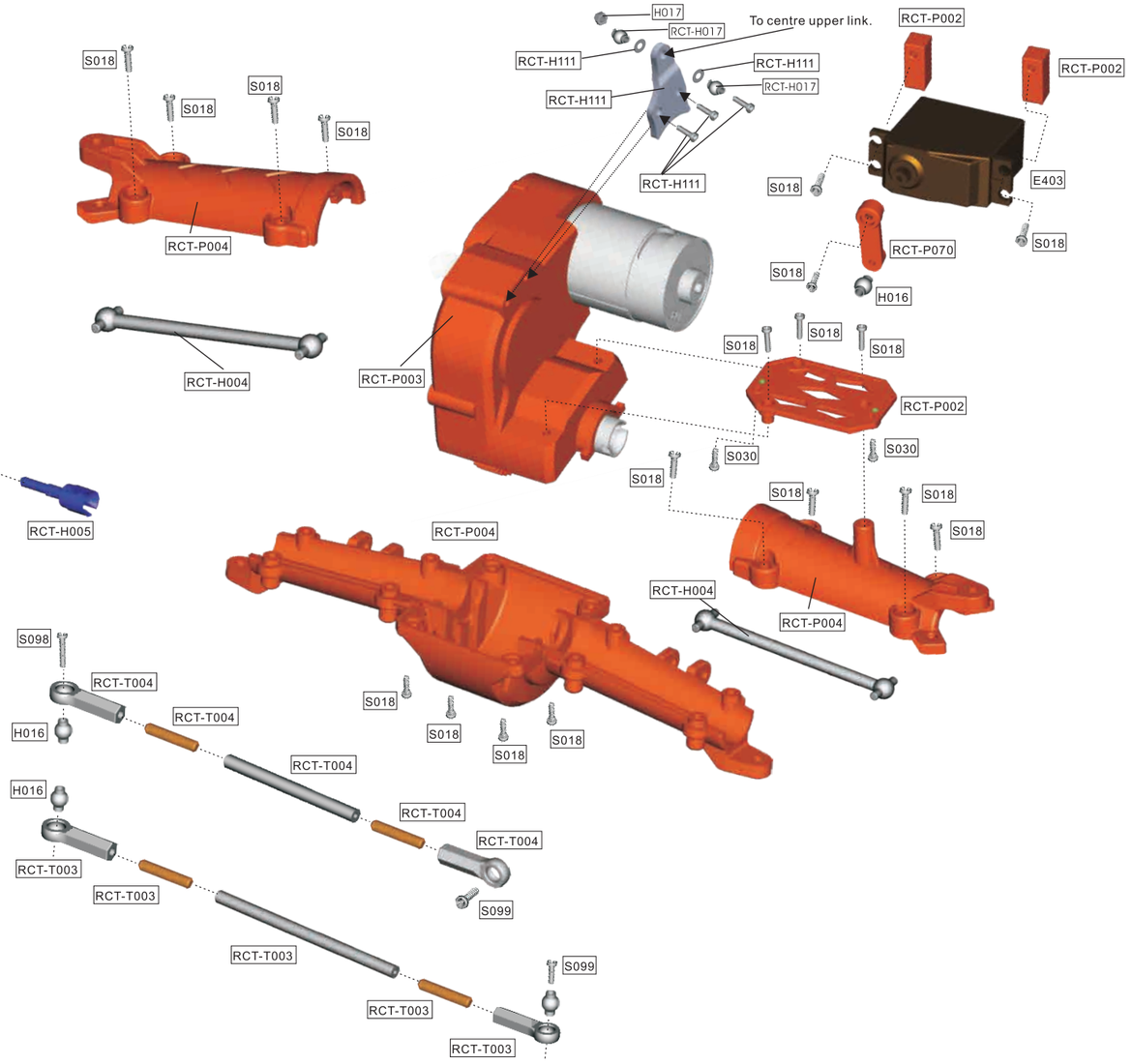
Front/Rear Gear Box Assembly

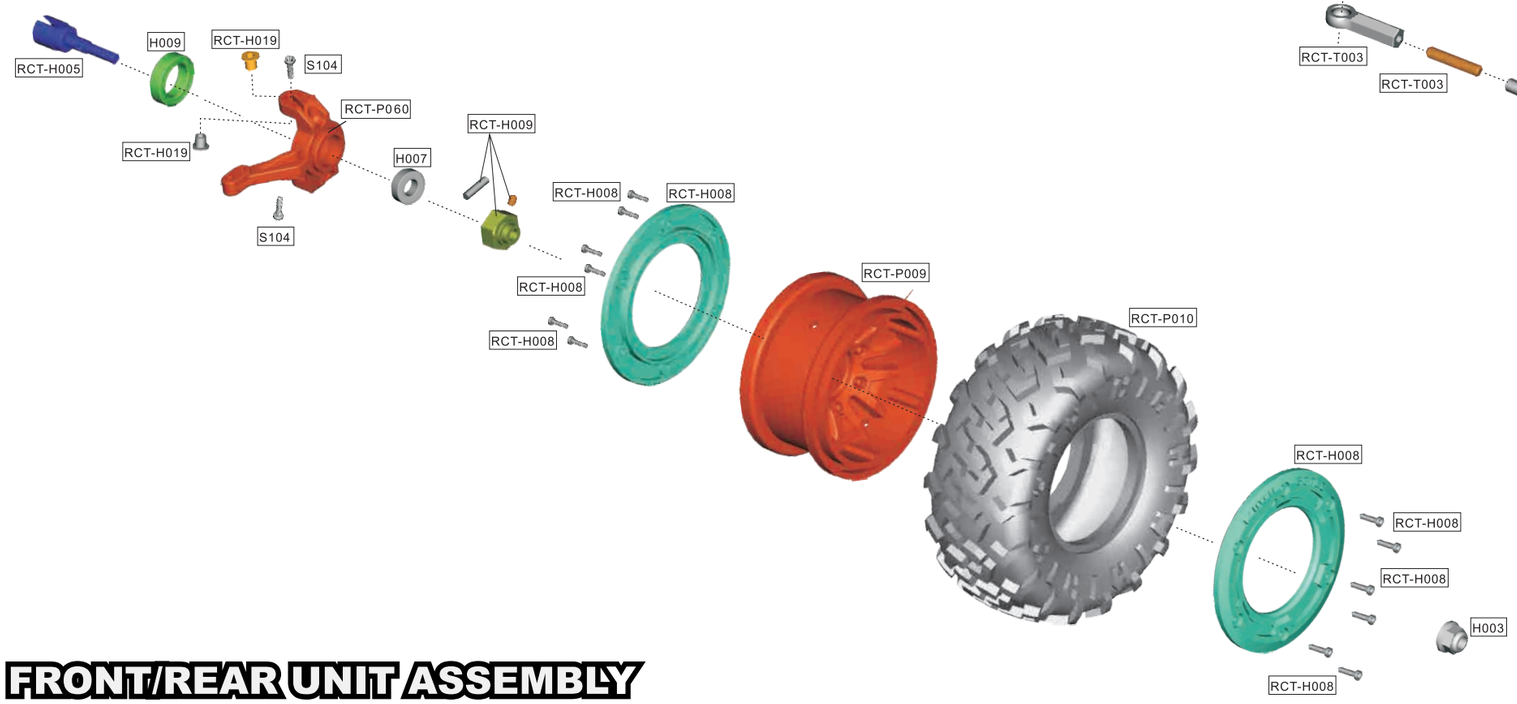


Assembly Diagram-2



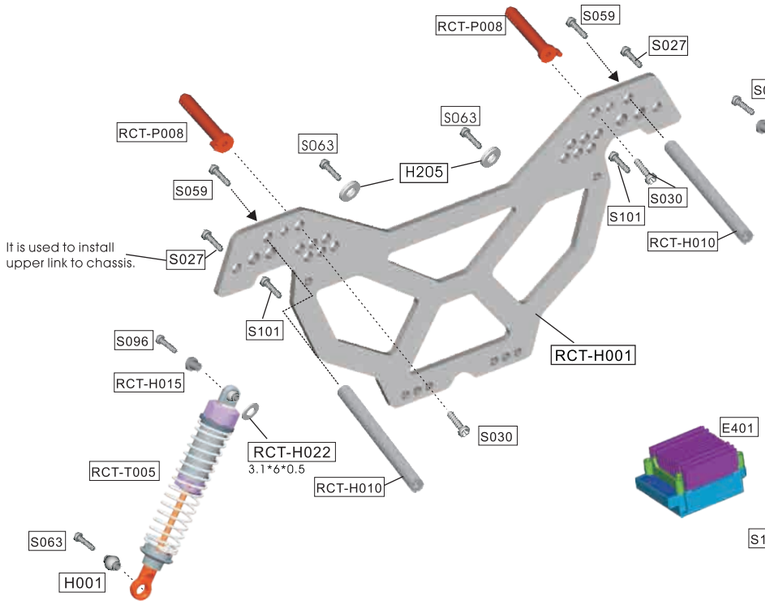


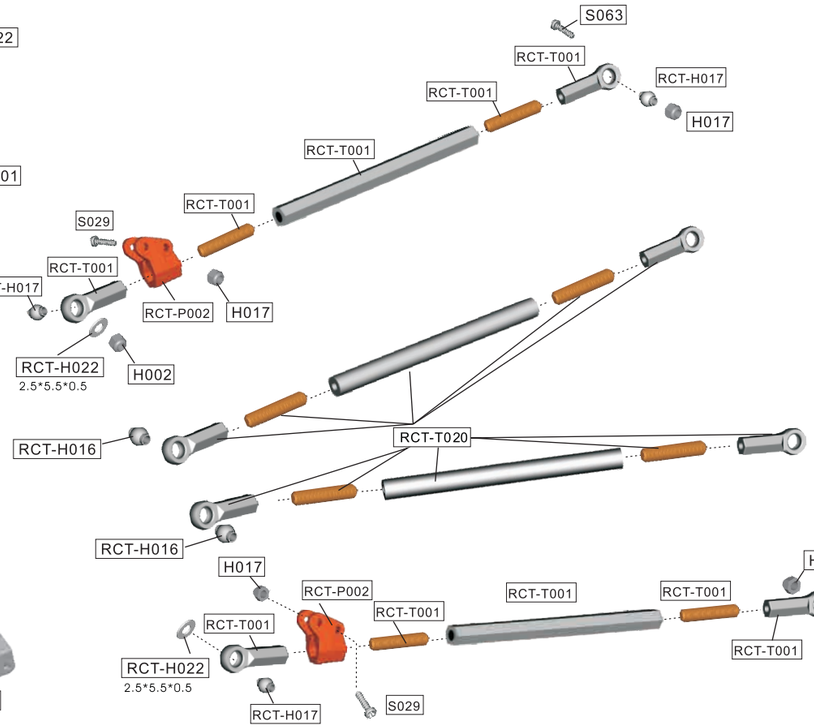


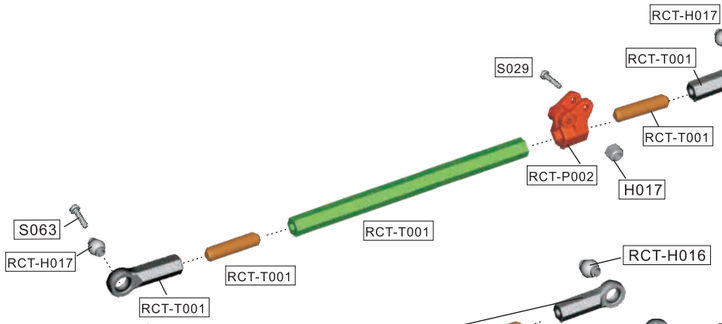


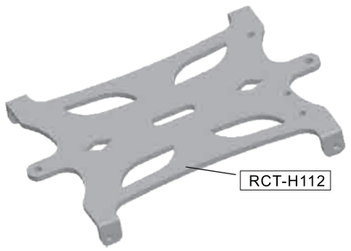
FRONT/REAR UNIT ASSEMBLY

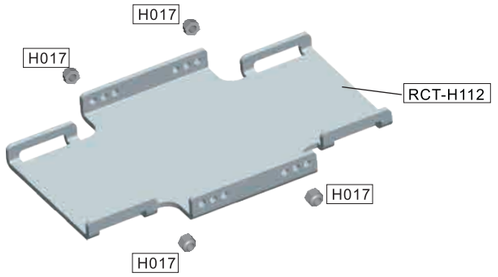
ROCKSLIDE S10 XT

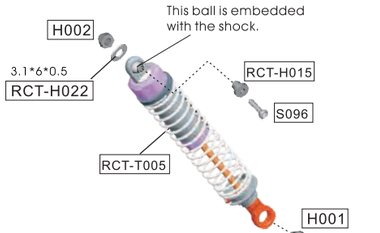


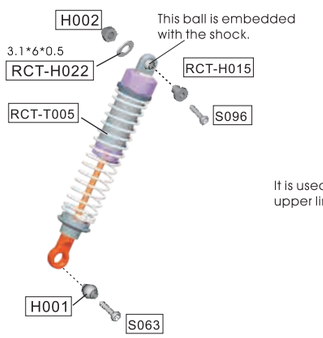


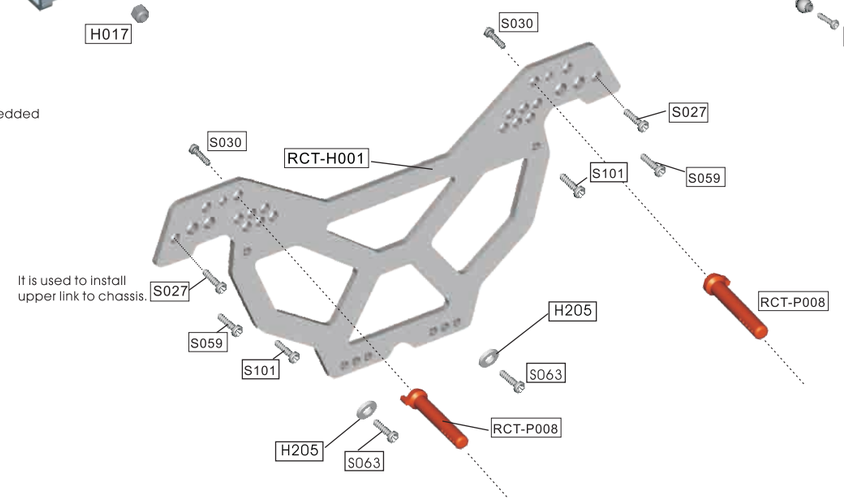












CENTER UNIT ASSEMBLY