

MODEL: CLAWBACK



CLAWBACK

OWNERS MANUAL



FAST • AFFORDABLE • FUN™

MAN-CLAWBACK-2016-9-14

- To ensure that you are using the most recent version of this manual:
www.redcatracing.com/manuals/CLAWBACKMANUAL.pdf
- To ensure that you have the most recent version of the Electric Vehicles Manual:
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WARNING!

READ ALL INSTRUCTIONS INCLUDED WITH VEHICLE BEFORE OPERATING

**AGE WARNING!**

This radio controlled (RC) vehicle is not a toy! You must be 14 years of age or older to operate this vehicle. Adult supervision is required.

**RISK OF RUNAWAY VEHICLE OR INJURY!**

Never turn on the vehicle or plug in the battery pack without first having the controller turned on.

**RISK OF FIRE! / RISK OF EXPLOSION!**

There is a risk of fire and explosion when dealing with batteries. Rechargeable batteries may become hot and catch fire if left unattended or charged too quickly. Use extra caution when charging LiPO batteries. Use only LiPO specific chargers. Use a LiPO safe charging pouch when charging LiPOs. Charge away from flammable materials. Never charge at a rate higher than 1C. {2000Mah pack= 2amps charge rate). Overcharging can lead to fire and explosion. Always store battery packs in a cool dry place.

**RISK OF BURNS!**

The batteries, electronic speed controller (ESC), electric motor, and other areas of the vehicle can get hot. Burns can occur if touched after vehicle operation. Allow adequate time to cool before handling.

**RISK OF ELECTRICAL SHOCK!**

Use caution when charging batteries. Do not touch positive and negative leads together. Do not lay battery on metal. Use only chargers specified for the battery type being charged. Keep batteries and chargers away from water.

**RISK OF INJURY!**

Hobby grade RC vehicles can cause serious injury or death if not operated correctly. Never use vehicle in crowds. Never chase people or animals. Drive in safe open areas only. Keep body parts away from moving parts.

**RISK OF DAMAGE!**

Never operate RC vehicles on public roads. Damage of vehicle and property can occur. Only operate on open private property. Never charge the battery pack while it is still plugged into the RC vehicle. Always unplug the battery pack from the electronic speed controller (ESC) and remove the battery from the RC vehicle before charging. Failure to do so will result in damage to the vehicle's electronics.

**WARNING!**

Do not mix old and new batteries. Do not mix alkaline, lithium, standard (carbon zinc), or rechargeable (nickel cadmium) batteries. Do not charge or charge batteries in a hazardous location.



FCC Compliance Statement! The radio included with your vehicle complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operations. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

WARNING: While operating the Radio, a separation distance of at least 20 centimeters must be maintained between the radiating antenna and the body of the user or nearby persons in order to meet the FCC RF exposure guidelines.

FEATURES & SPECIFICATIONS

- Dual Brushed 550 Motors (1 on each axle)
- Brushed ESC (with drag brake)
- Forward and Reverse
- 4 Wheel Drive
- 4 Wheel Steering - Switchable
- Aluminum Body Oil Filled Shocks
- 3800mAh NIMH battery with Charger
- 2.4GHz, 3 Channel Radio System
- Scale: 1/5
- Length: 840mm
- Width: 436mm
- Height: 350mm
- Wheelbase: 650mm
- Wheel Diameter: 182mm
- Wheel Width: 82mm
- Gear Ratio: 1:48.15

VEHICLE OVERVIEW

A: On/Off Switch

B: Motors

C: ESC

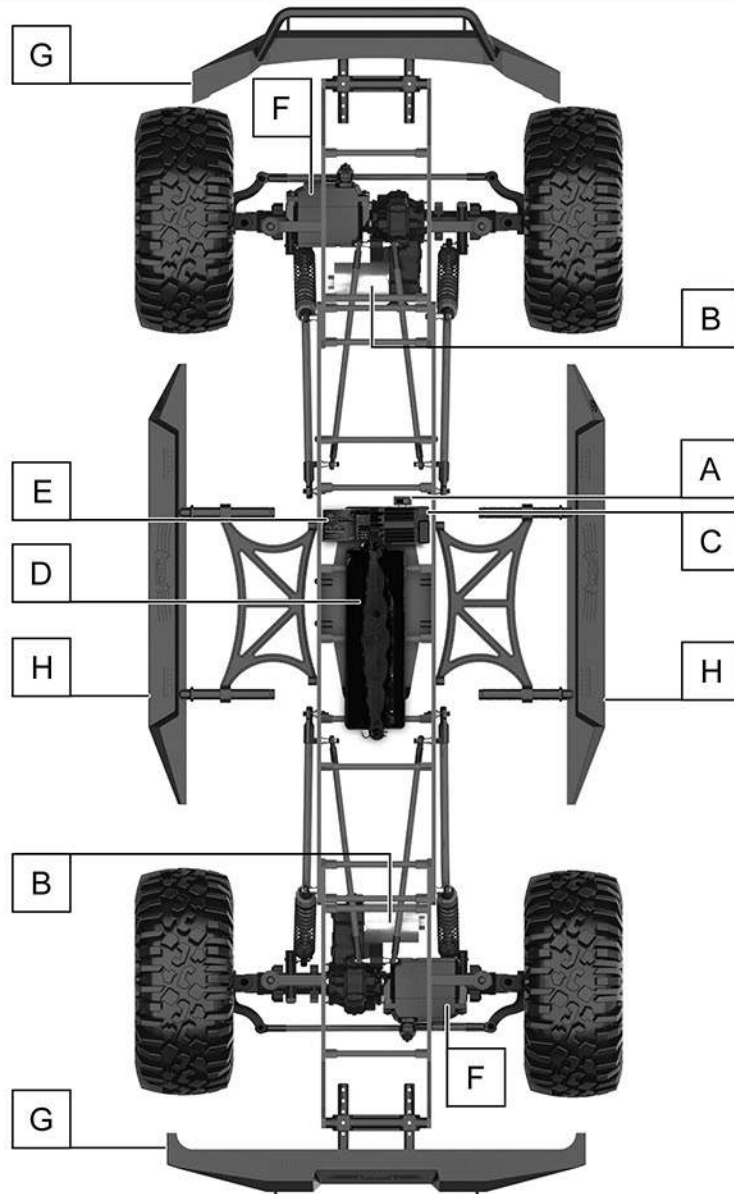
D: Battery Tray

E: Receiver

F: Steering Servos

G: Addictive Desert Designs
Licensed Bumpers

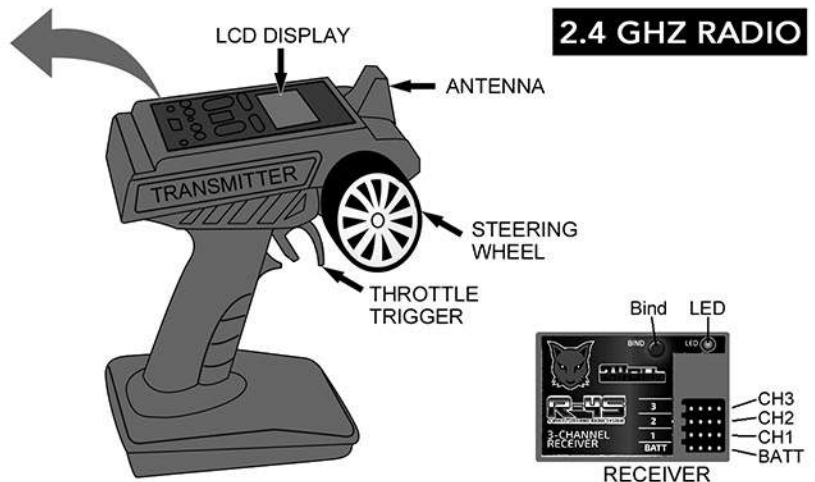
H: Addictive Desert Designs
Licensed Side Guards



RADIO GUIDE

2.4 GHZ RADIO

CONTROL PANEL



TRANSMITTER

ST. TRIM: Used to set the steering neutral point of the front wheels. If the vehicle veers in one direction while the steering wheel is centered, use these buttons to center the front wheels until the vehicle drives straight.

ST. D/R: Steering dual rate is used to limit the amount of overall steering.

CH3: Channel 3 reversing switch. Only used in No.1 transmitter mode. This function is disabled from the factory in current mode.

TH. TRIM: Throttle trim is used to set the throttle neutral point. If the vehicle moves forward or reverse while the throttle trigger is centered, adjust the TH. TRIM until the vehicle remains still.

3CH. TRIM: Used to set the steering neutral point of the rear wheels. If the rear steering is causing the vehicle to veer in one direction while the steering wheel is centered, use these buttons to center the rear wheels until the vehicle drives straight.

SEL: Used to select menu items.

INCREASE: Used to increase menu values.

DECREASE: Used to decrease menu values.

MODE: Used to cycle steering modes.

POWER: LED light that indicates the transmitter is turned on.

BATT: Light that indicates battery status. Light will blink when batteries are low.

BIND: Used to bind the receiver to the radio.

On/Off Switch: Bottom switch. Turns transmitter On and Off.

RECEIVER

Ch3: Used for rear steering servo.

Ch2: Used for Electronic Speed Controller.

Ch1: Used for front steering servo.

BATT: Not Used

Binding:

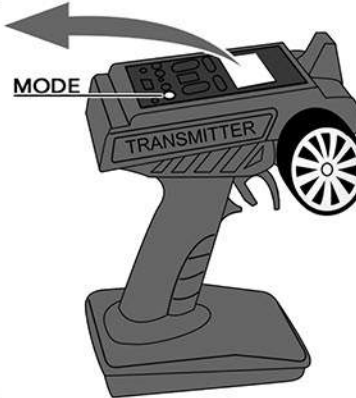
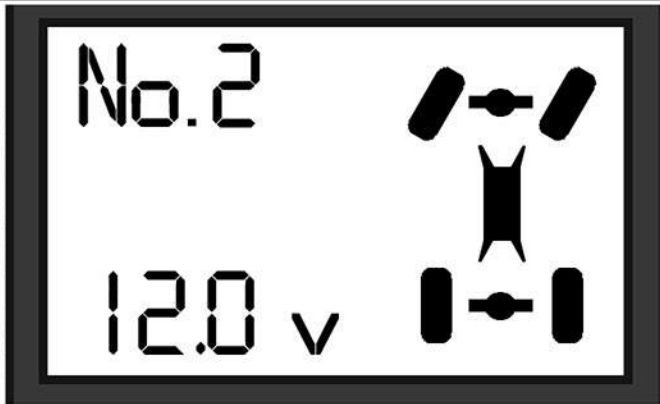
*Make sure your ESC is plugged into CH2, with the white wire closes to the receiver label.

1. While holding down the receiver BIND button, power the vehicle on. The receiver light should begin to blink.
2. Press the BIND button in the center of the transmitter's Control Panel and turn on radio.
3. Binding is complete when the receiver LED stops blinking. Turn off the power to your vehicle, as well as the radio.
4. First turn your radio on, then your vehicle as normal. Your radio and receiver should be bound together and communicating with each other.

RADIO GUIDE

2.4 GHZ RADIO
LCD DISPLAY

LCD DISPLAY



LCD DISPLAY

The Liquid Crystal Display is used to show necessary on-screen items. In the display above, you can see the transmitter mode (No.2), steering mode graphics (in Mode 1), and voltage.

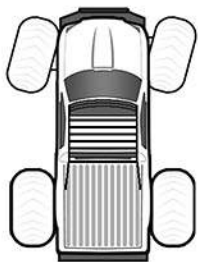
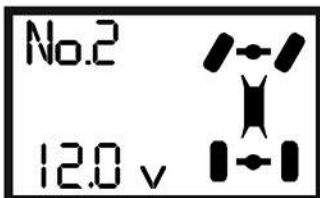
Steering Mode Graphic Display: On the right side of the LCD Display Screen, a graphic display indicates which wheels will steer while in the current steering mode. See below for more detail.

12.0v: This is the circuitry voltage display (not the actual battery voltage). The circuitry voltage is approximately 2X actual battery voltage. The transmitter will beep continuously when the battery voltage reaches a dangerously low level. If this happens, turn off the vehicle and transmitter and replace the batteries immediately.

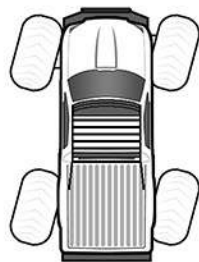
STEERING MODES

The steering modes are easily cycled by pressing the "MODE" button. You can cycle through modes 1, 2, 3, & 4 with each press of the "MODE" button.

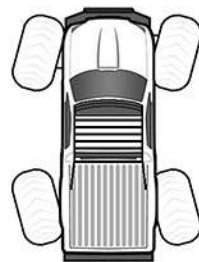
MODE 1: Front wheels steer only.



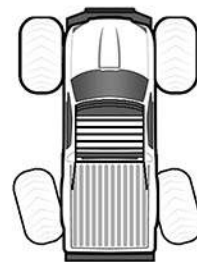
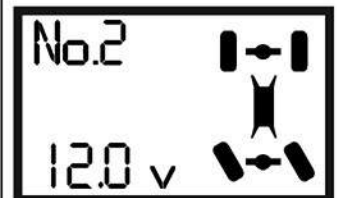
MODE 2: Front & rear wheels steer in the same direction.



MODE 3: Front & rear wheels steer in opposite directions.



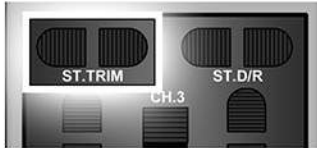
MODE 4: Rear wheels steer only.



RADIO GUIDE

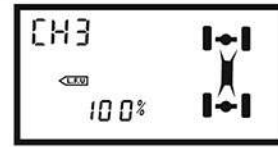
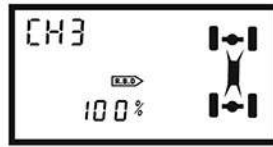
STEERING TRIM (front steering)

Steering trim range is 0-100%. Press the left or right buttons to select the desired steering trim where the front of the vehicle tracks straight while the steering wheel is centered.



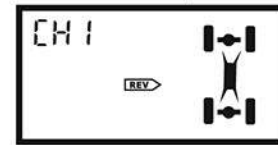
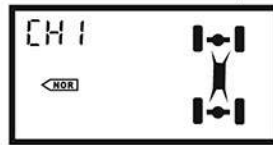
STEERING TRIM (rear steering)

Steering trim range is 0-100%. Press the upper or lower buttons to select the desired steering trim where the rear of the vehicle tracks straight while the steering wheel is centered.



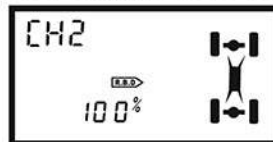
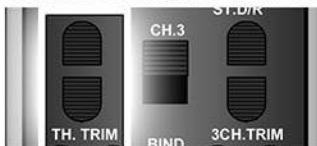
STEERING REVERSING (front and rear steering)

Press SEL (Select Button) on the transmitter once, the LCD will display "CH.1". Press INCREASE or DECREASE to toggle between NOR (normal) and REV (reverse).



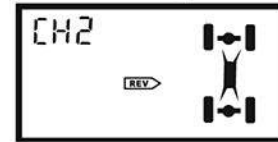
THROTTLE TRIM

Throttle range is 0-100%. Press the upper or lower buttons to select the desired throttle trim where the vehicle remains still while the throttle trigger is in the neutral position.



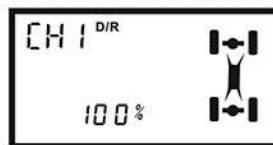
THROTTLE REVERSING

Press SEL on the transmitter twice, the LCD will display "CH.2". Press INCREASE or DECREASE to toggle between NOR (normal) and REV (reverse).

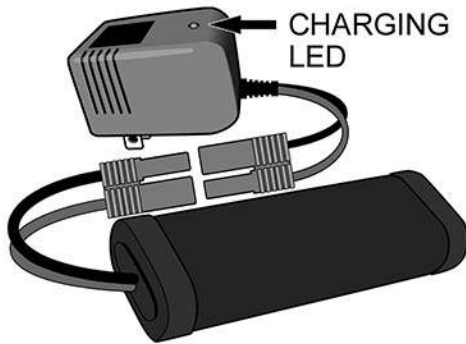


STEERING DUAL RATE (front and rear steering)

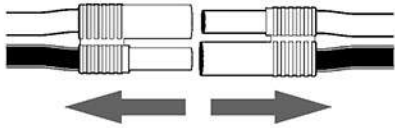
Steering D/R will limit the overall travel of the steering servo. Press the right button to increase steering travel, and the left button to decrease steering travel.



CHARGING THE NIMH BATTERY



ATTENTION



Before attempting to charge your NiMH battery, be sure to remove it from the vehicle and place it on a nonflammable surface away from hazards, such as curtains, couches, or clothing.

Batteries can potentially catch fire if over charged or charged incorrectly.

NIMH Charging:

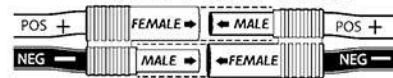
Charging NiMH battery packs with the included charger is simple.

1. Unplug and remove the battery from the RC vehicle.
2. Plug the charger into a 110v wall receptacle.
3. Plug the battery pack into the charger.

When plugging the battery into the charger, ensure the red (POS+) wire on the battery is connected to the red (POS+) wire of the charger. Also ensure the black (NEG-) wire on the battery is connected to the black (NEG-) wire of the charger.

4. Battery takes approximately 8 hrs to charge completely with included trickle charger.

ATTENTION



Be sure the wires are correctly orientated when plugging the battery into the vehicle.

When plugging the battery into the vehicle, Ensure the red (POS+) wire on the battery is connected to the red (POS+) wire of the ESC. Also ensure the black (NEG-) wire on the battery is connected to the black (NEG-) wire of the ESC.

Improper connection may damage electronics.



WARNING



UNPLUG THE BATTERY PACK FROM THE VEHICLE!

BEFORE CHARGING YOUR BATTERY PACK, YOU MUST FIRST UNPLUG IT FROM THE ESC. FAILURE TO UNPLUG THE BATTERY FROM THE VEHICLE'S ESC BEFORE CHARGING MAY PERMANENTLY DAMAGE SOME OR ALL ELECTRONICS IN THE VEHICLE.

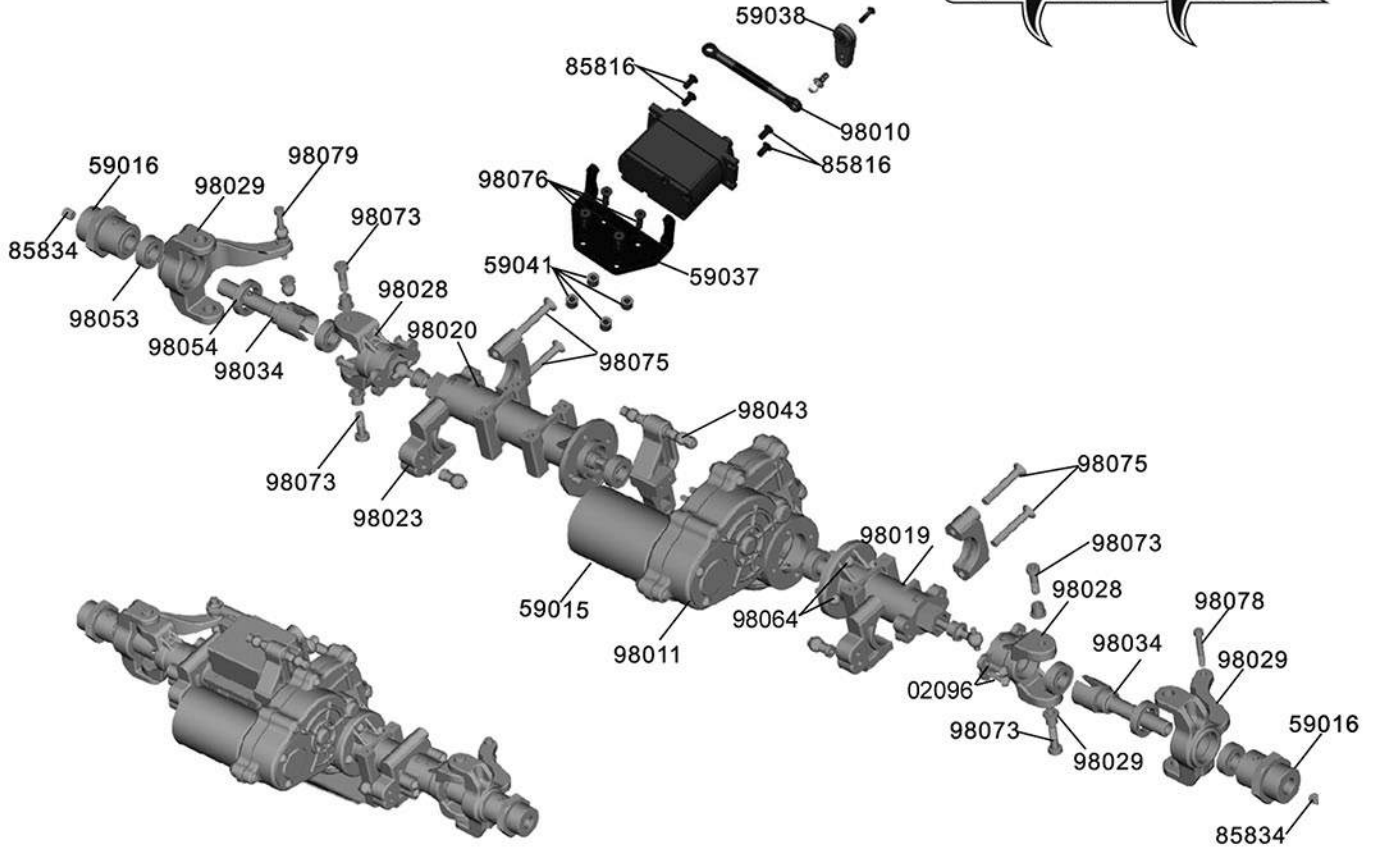
NEVER LEAVE BATTERY PACKS UNATTENDED WHILE CHARGING! Leaving a battery unattended while charging may result in fire and damage / injury.

NEVER ALLOW A BATTERY PACK TO GET HOT! It's normal for the battery pack to get warm, but it should never get hot! Monitor batteries during charging and unplug to let cool if the battery gets hot.

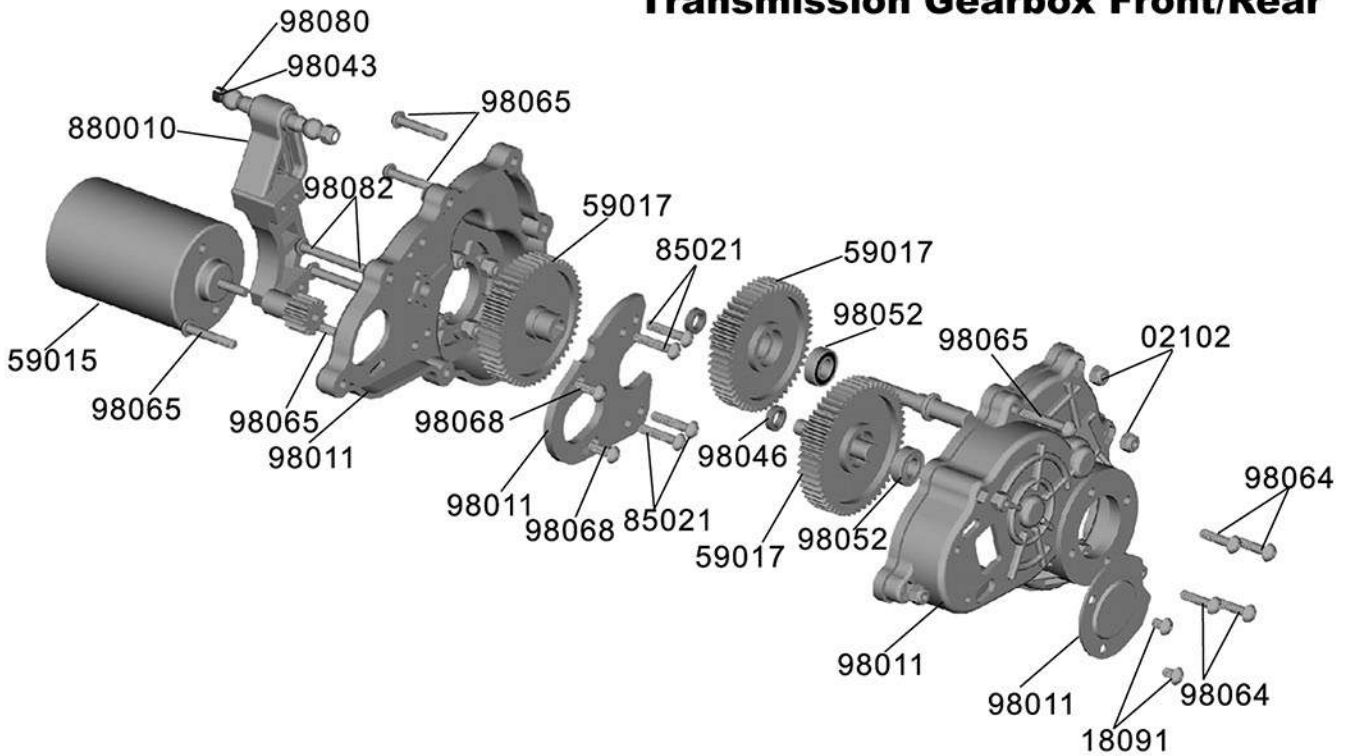
WHEN CHARGING LIPOs, A LIPO SAFE CHARGING BAG SHOULD BE USED TO HELP PREVENT FIRES.

EXPLODED VIEWS

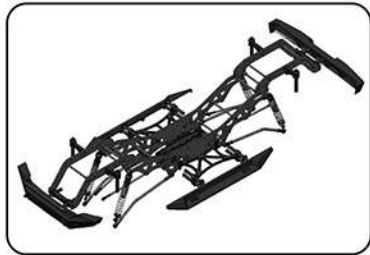
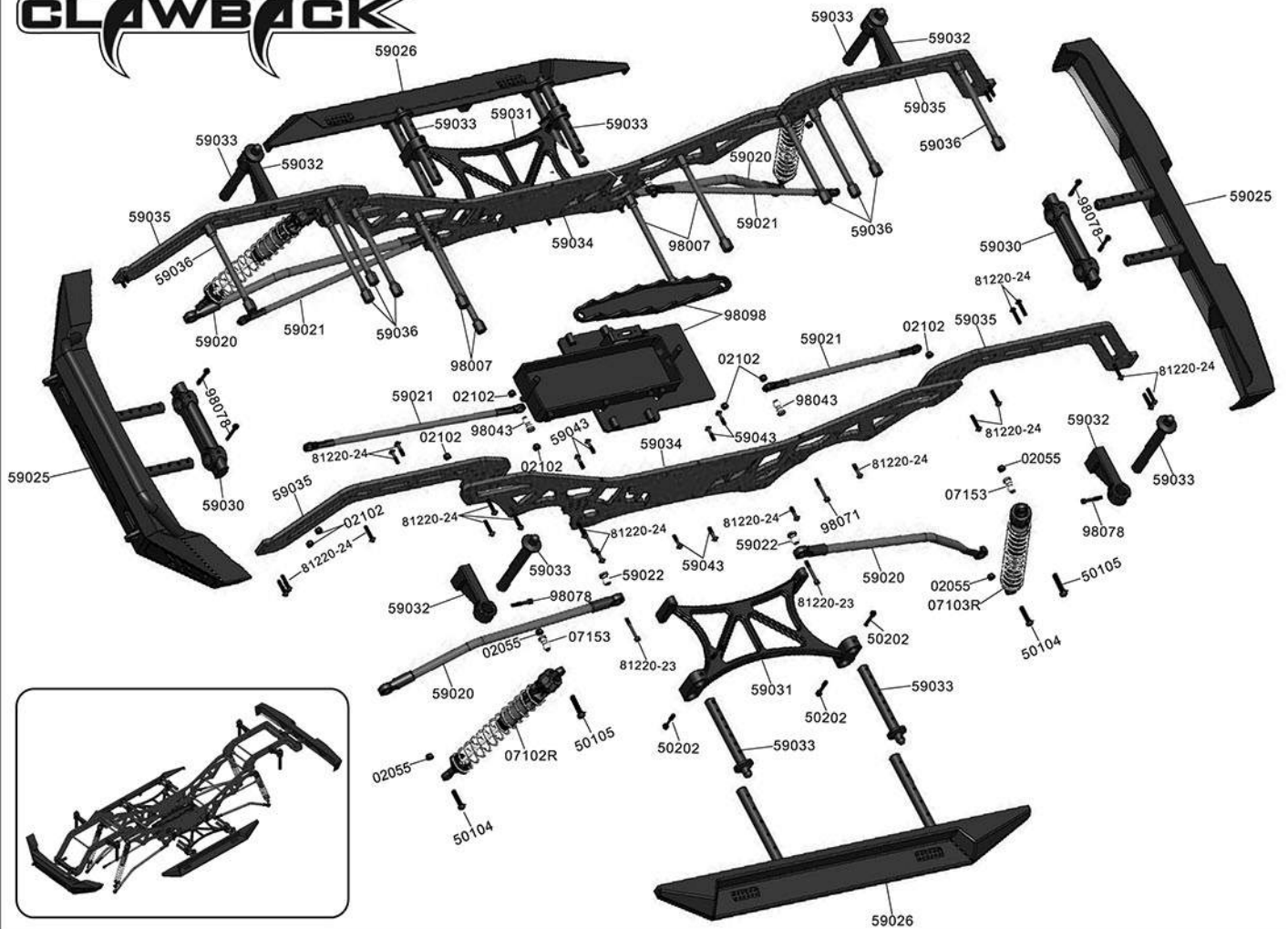
Complete Axle Front/Rear



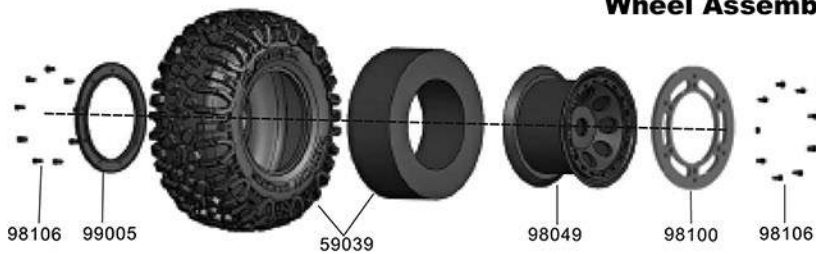
Transmission Gearbox Front/Rear



EXPLODED VIEWS



Wheel Assembly



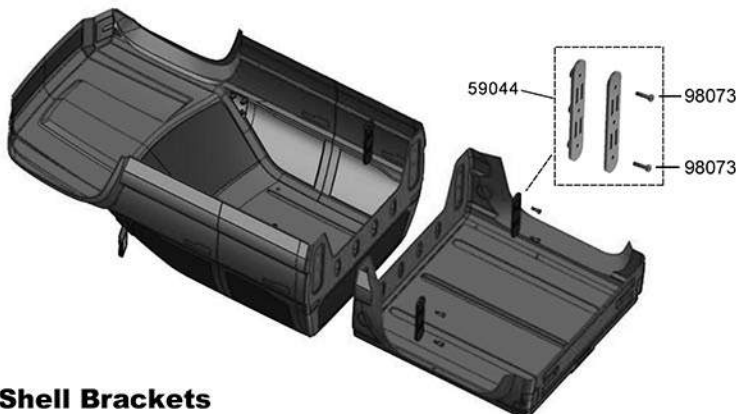
07102R - Front Shock (short)



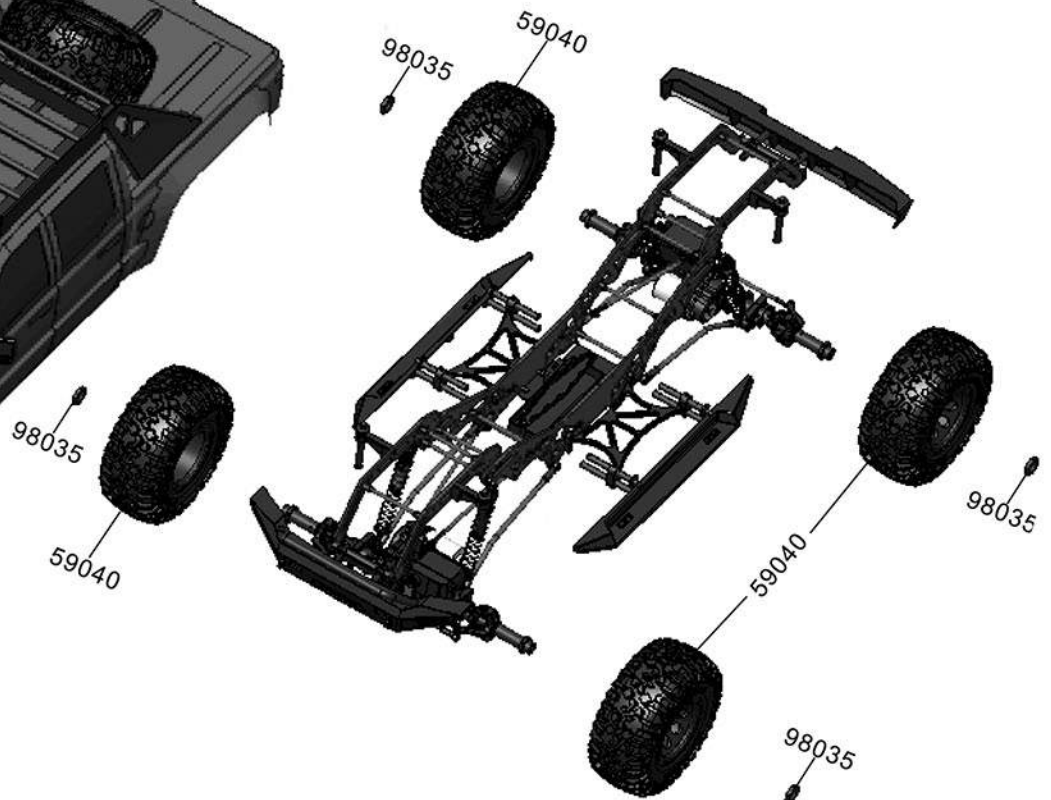
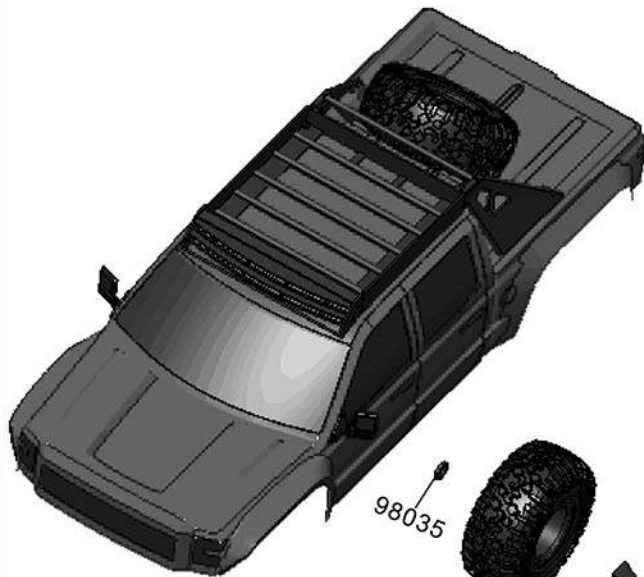
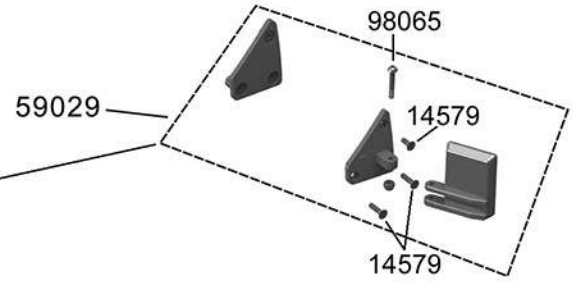
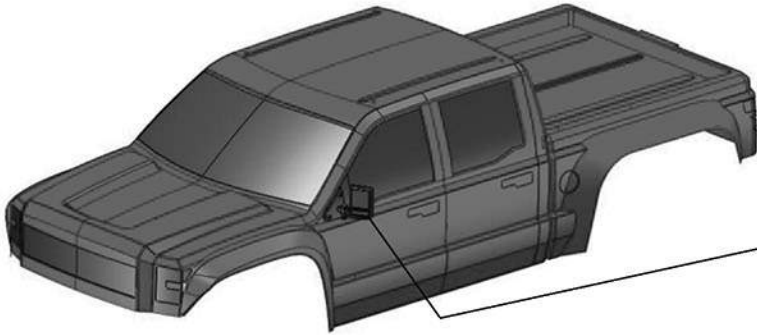
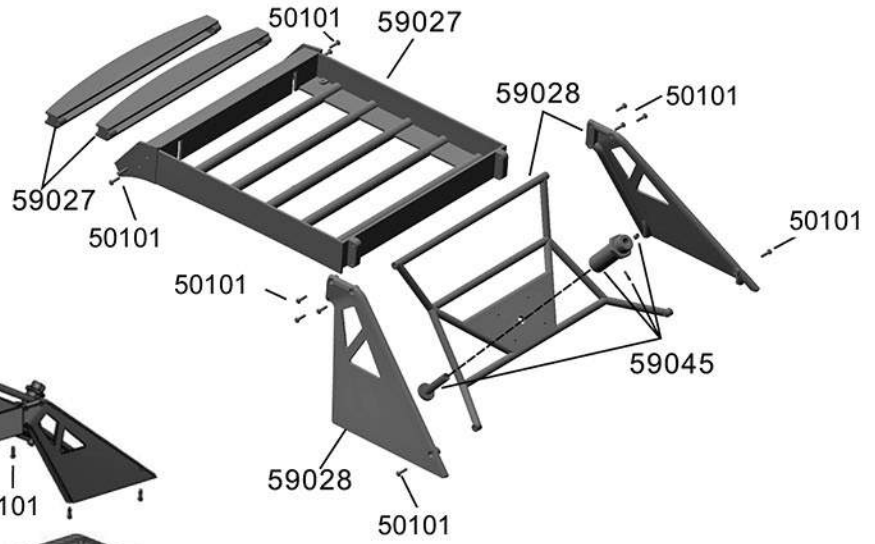
07103R - Rear Shock (long)



Body Shell Brackets



EXPLODED VIEWS






































PARTS IDENTIFICATION

Spare Parts

<p>59025-Bumper(F/R)</p> 	<p>59026-Side Step</p> 	<p>59027-Roof Rack /Light Bars</p> 	<p>59028-Chase Rack</p> 	<p>59029-Side Mirror (L/R)</p> 
<p>59030-Bumper Mount</p> 	<p>59031-Side Step Mount</p> 	<p>59032-Body Post Mount</p> 	<p>59033-Body Post</p> 	<p>59034-Main Chassis Side Plate</p> 
<p>59035-Chassis Side Plate (front or rear)</p> 	<p>59036-Chassis Brace 92mm</p> 	<p>59037-Servo Mount</p> 	<p>59038-Servo Horn (30KG)</p> 	<p>98098- Battery Box W/Cover</p> 
<p>59039-Tire w/Foam</p> 	<p>59040-Wheel Complete</p> 	<p>98049-Rims</p> 	<p>99005-Beadlock Inner (9 hole)</p> 	<p>98100- Beadlock Outer (ABS)</p> 
<p>99059-Drive Left Shaft(Short)</p> 	<p>99060-Drive Right Shaft (Long)</p> 	<p>98092-Steering Tie Rod 6.0x 210mm (dia/length)</p> 	<p>59020- 4-link Lower Link (F/R) 8.0x 245mm (dia/length)</p> 	<p>59021- 4-link Upper Link (F/R) 8.0x 210mm (dia/length)</p> 
<p>98007- Chassis Brace (Main Chassis) 100mm</p> 	<p>98010-Steering Drag Link 80*6.0mm</p> 	<p>59044-Body Bracket</p> 	<p>59045-Spare Tire Mount</p> 	<p>59016- Wheel Adapter W/Shaft Pins</p>  <p>(3*17.8mm)</p>
<p>880010-Alum. 4-link Upper Axle Mount</p>  <p>2P/Cap Head Machine 3*14mm*8P</p> 	<p>59017-Diff. Gear (54T/15T)(49T/15T) (49T)</p> 	<p>98011-Gear Box W/Gear Box Cover W/Motor Plate</p> 	<p>98019-Driven Case (Left)</p> 	<p>98020-Driven Case (Right)</p> 

PARTS IDENTIFICATION

Spare Parts

<p>98023-Susp.Arm Mount (F/R)</p> 	<p>98028-Caster Mounts (Left)(Right)</p> 	<p>98029-Steering Arm W/Steel Ring</p> 	<p>98033-Gear Shaft (Long) (Short)</p> 	<p>98034-Wheel Axle</p> 
<p>98035-Wheel Nuts</p> 	<p>07102R-Front Shock (short)</p> 	<p>07103R-Rear Shock (long)</p> 	<p>98056-E-Clips 7.0mm</p> 	<p>59022- Balls Ø 8.0mm</p> 
<p>07153-Shock Upper Ball (AL.)</p> 	<p>98041- Balls Ø 7.8mm</p> 	<p>98042- Ball Stand Ø 6.8mm</p> 	<p>98043-Balls Stand Ø6.8mm</p> 	<p>98044-Ball Stand Ø 7.8mm</p> 
<p>98046- Bushing 5*8*2.5mm</p> 	<p>98052-Ball Bearings 6*12*4mm</p> 	<p>98053-Ball Bearings 8*16*5 mm</p> 	<p>98054-Ball Bearings 12*18*4mm</p> 	<p>98084-Repairing Kit</p> 
<p>59041- Servo Mount Spacer 5.5</p> 	<p>02055-Nuts(M4)</p> 	<p>02102-Nylon Nuts M3</p> 	<p>02098-Set Screws 3*4</p> 	<p>85834-Set Screws M5*4</p> 
<p>98058-Set Screws 3*25</p> 	<p>50101-Cap Head Hex. Mechanical Screw(3*12) 12P</p> 	<p>18091-Cap Head Machine Screw 3*6</p> 	<p>50202-Column Head Hex.Mechanical Screw (3*16) 12P</p> 	<p>81220-23 Column Head Hex. Mechine Screw 3*20 6P</p> 
<p>98082-Cap Head Machine Screw 3*28</p> 	<p>98064-Cap Head Machine Screw3*12</p> 	<p>85816-Cap Head Hex. Mechanical Screw(4*10) 8P</p> 	<p>98065-Cap Head Machine Screw 3*18</p> 	<p>02096-3*10 Cap Head Machine Screw 6P</p> 

PARTS IDENTIFICATION

Spare Parts

<p>85021-3*16 Cap Head Mechanical Screw 4P</p> 	<p>14579-Flat Head Hex Machine Screw 3*8</p> 	<p>50105-Cap Head Hex. Mechanical Screw(4*30) 4P</p> 	<p>50104-Cap Head Hex. Mechanical Screw(4*25) 4P</p> 	<p>98071-Column Head Machine Screw 3*22</p> 
<p>98072-Column Head Machine Screw 3*24</p> 	<p>98073-Column Head Machine Screw 4*12</p> 	<p>98078-Column Head Machine Screw 3*18</p> 	<p>98079-Column Head Machine Screw 3*28</p> 	<p>98080-Column Head Machine Screw 3*44</p> 
<p>81220-24 Column Head Hex. Mechine Screw 3*14 4P</p> 	<p>59043-Column Head Hex.Mechine Screw 3*12</p> 	<p>98106-Column Head Self-Tapping Screw 3*6</p> 	<p>98075-Countersink Head Machine Screw 4*24</p> 	<p>98076-Countersink Head Machine Screw M4*14</p> 
<p>14577-Countersink Head Machine Screw M3*12</p> 	<p>18113-Round Head Machine Screw 3*6</p> 	<p>02053-R- Clip</p> 	<p>85734-Body Pins</p> 	<p>HX-30HT - Servo (Waterproof) (30KG)</p> 
<p>59015-Motor(RC550) W/Gear(12T)</p> 	<p>HX-3800MH-B-Battery (7.2V 3800mAh)</p> 	<p>98120-Electronic Speed Controller (Waterproof)</p> 	<p>28475-Receiver R-45 (2.4G)(Waterproof)</p> 	<p>T-3920C-2.4G R-4S Transmitter</p> 
<p>580-1S(Gunmetal) 580-1R(Red)</p> 	<p>580-2S(Gunmetal) 580-2R(Red)</p> 	<p>580-S(Gunmetal) 580-R(Red)</p> 	<p>59046-Diff. Metal Gear (54T/15T)</p> 	<p>59047-Diff.Metal Gear (49T/15T)</p> 
<p>59048-Diff. Gear (49T)(Plastic)</p> 	<p>59049-Diff. Gear (54T/15T)(49T) (49T)</p>  <p>↑ Metal ↑ Plastic ↑ Metal</p>			

PARTS IDENTIFICATION

Hop-up Parts

880002-AL. Caster Mounts (Left 2P)(Right 2P)+Column Head Machine Screws 4*12 mm*4P+Cap Head Machine Screws3*10mm*8P



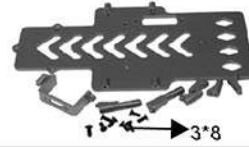
880003-Alum. Steering Arm 4P+ Ring 4P



880008-Alum. Susp. Arm Mount(F/R) 4P/Flat Head Machine Hex. Screws 4*24mm*4P



880020- Battery Box (AL.)/Flat Head Machine Screws 3*8mm*8P



880021- Battery Box Cover (AL.)/R-Pins 2P



880014-AL. Tire Secure Ring 2P/Column Head Self Tapping Hex.Screws 3*6mm*36P





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MAN-CLAWBACK-2016-9-14

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