



IMPORTANT LINKS:

Link to the most recent version of this manual with exploded views and parts lists: www.redcatracing.com/manuals/VOLCANOEPXMANUAL.pdf $\,$

Link to electric vehicles manual: www.redcatracing.com/manuals/ELECTRIC-MANUAL.pdf



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 change 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

• Electric Brushed 19T 550 Motor

Brushed ESC

4 Wheel Drive

Aluminum Capped Oil Filled Shocks

7.2v NiMH Battery

• NiMH Charger Included

• 2.4GHz Radio System

• Scale: 1/10

• Length: 400mm

• Width: 310mm

• Height: 185mm

• Wheelbase: 275mm

• Ground Clearance: 30mm

VEHICLE OVERVIEW

A: On/Off Switch

B: Motor

C: ESC

D: Receiver

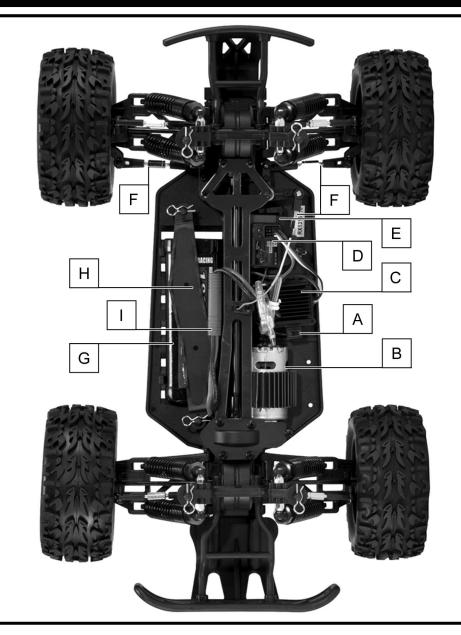
E: Steering Servo

F: Steering Linkage

G: NIMH Battery

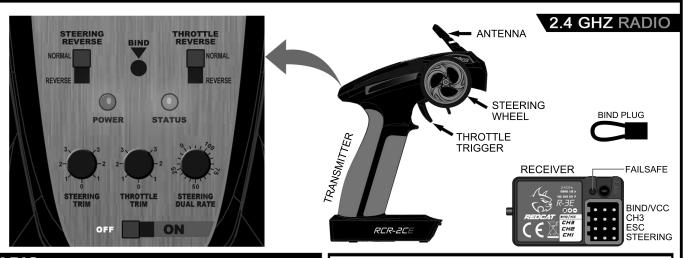
H: Battery Hold Down

I: Battery Connector



RADIO GUIDE

CONTROL PANEL



RADIO:

Steering Reverse Switch: Top left switch. Used to change steering orientation. If the car turns right when you steer left, flip this switch.

Throttle Reverse Switch: Top right switch. Used to change throttle trigger orientation. If the car goes in reverse while you pull the throttle trigger, flip this switch.

Power LED: Left LED light. Lights up when the transmitter is turned on.

<u>Status LED</u>: Right LED light. Lights up green when transmitter batteries are full. Flashes when transmitter batteries are low and need replacing.

<u>Bind Button:</u> Used to bind the transmitter to the receiver. See binding instructions.

<u>Steering Trim:</u> Left knob. Used to set the steering neutral point. If the vehicle veers in one direction while the steering wheel is centered, turn this knob in the opposite direction until the car drives straight.

Throttle Trim: Middle knob. Used to set the throttle neutral point. If the vehicle moves forward or reverse while the throttle trigger is centered, turn this knob until the vehicle remains still. For maximum setting, turn slowly until the vehicle creeps forward, then turn the knob the opposite direction until the car stops.

Steering Dual Rate: Right knob. Used to limit the amount of steering. 0= little/no steering & 100= maximum steering. Set the knob to the amount of steering you feel comfortable with. If the vehicle has a tendency to spin out, lower the steering rate.

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

RECEIVER:

BIND/VCC: Used when binding to transmitter.

Ch3: Used for 3rd channel when needed.

Ch2: Used for electronic speed controller (ESC).

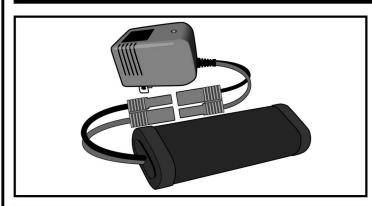
Ch1: Used for steering servo.

Failsafe Button: Used to set failsafe.

BINDING:

- Insert the BIND PLUG into the receiver BIND port.
- Make sure your ESC is plugged into CH2, and insert the bind plug into BIND/VCC. Now, power the vehicle on and the receiver light should begin to blink red.
- 3. Press the BIND button in the center of the transmitter's Control Panel and turn on radio.
- 4. Release the bind button when you see the green light on the radio flashing. At this point, your receiver's LED light should pause for approximately 1 second and then blink slowly. Turn off the power to your vehicle, as well as the radio.
- 5. Remove the BIND PLUG from the receiver. Make sure the servos and ESC are attached as described above.
- 6. First turn your radio on, then your vehicle as normal. Your radio and receiver should be bound together and communicating with each other.

CHARGERS



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.

Warning! 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.

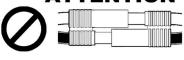
When plugging the battery into the charger, ensure the red (POS+) wire on the battery is connected to the red (POS+) wire of the charger. Also ensure the black (NEG-) wire on the battery is connected to the black (NEG-) wire of the charger.

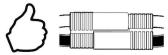
Charge times vary according to charger current and battery mAh. Battery mAh ÷ Charger mA = Approximate charge time

Ex. 2000mAh battery ÷ 500 mA charger = ~4 hours charge time.

BATTERY → CHARGER →	2000mAh	2200mAh	3000mAh	3800mAh
250mA	8 hrs	8.8 hrs	12 hrs	15.2 hrs
500mA	4 hrs	4.4 hrs	6 hrs	7.6 hrs
650mA	3 hrs	3.4 hrs	4.6 hrs	5.8 hrs

ATTENTION





BATTERY CONNECTION INSTRUCTIONS:

Make sure battery connectors are fully pushed in when charging and connecting to the vehicle.

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.

STOP

WARNING



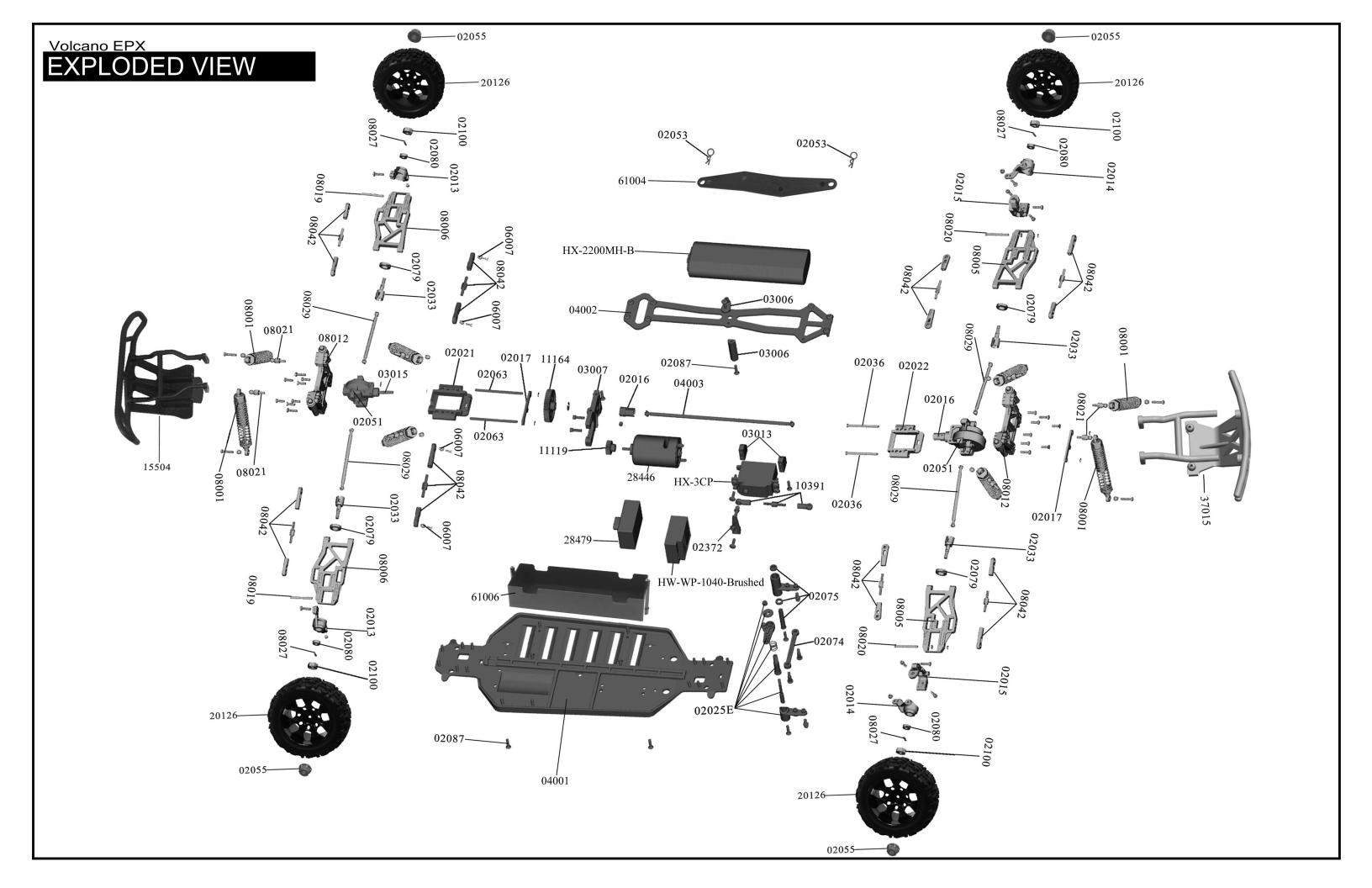
UNPLUG THE BATTERY PACK FROM THE VEHICLE!

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.

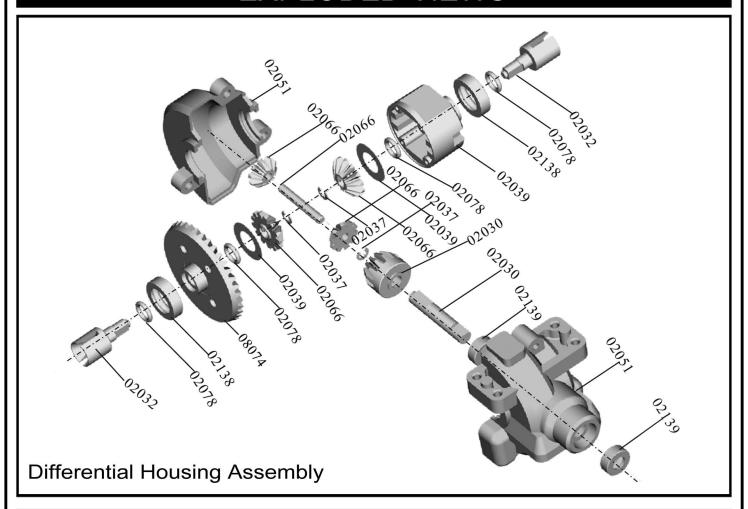
NEVER LEAVE BATTERY PACKS UNAT- TENDED WHILE CHARGING! Leaving a battery unattended while charging may result in fire and damage / injury.

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



PARTS IDENTIFICATION

08005- Front Lower Suspension Arm	08006- Rear Lower Suspension Arm	02014-Steering Hubs (L/R)	02015-Front Hub Carrier(L/R)	02013-Rear Upright+ Set Screws
No.		50	Po	
02033-Wheel Axle	02016-Universal Joint Cup B+ Grub Screw	02032-Universal Joint Cup C	02021-Rear Suspension Arm Holder	02022-Front Suspension Arm Holder
	Sig	HH	0	O
08002- Front Bumper	08003-Rear Bumper	08012- Fron/Rear Shock Tower	08001-Shock Absorber	28446-Motor (Rc550)
5		AND STATES		9 3

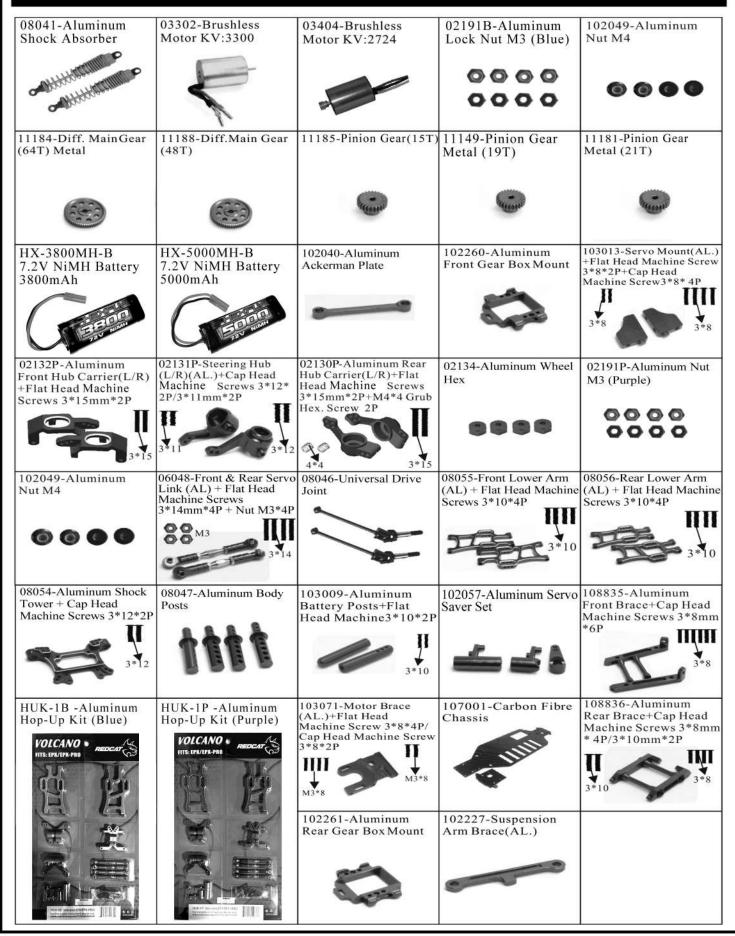
PARTS IDENTIFICATION

02500-Motor Wire + Capacitors	03007-Motor Mount	04001-Chassis	04002-Upper Chassis Brace	03013-Radio Tray Mounts
		THIT	8	
61004- Battery Strap	HX-2200MH-B 7.2V NiMH Battery	61006- Battery Case	02053-R- Clip	02074-Steering Joint
3	HEXFLY			111 45
02025E-Servo Saver Set	02075-Steering Assembly B	03401-Gear Cover	03300-Motor Heat Sink	11164-Spur Gear (64T)
A.C.	L	9-		
11119-Pinion Gear (17T)	08074-Crown Gear (38T) (Copper infiltration)	02030-Drive Gear	02024-Diff.Gear Complete	03015-Drive Shaft+ E-Clip
6		E -		**************************************
02066-Diff.Planetary Gears + Pin	02039-Differential Box (W/ 2 Shims + Washers)	02051-Gear Box	10391-Servo Link	08042-Front/Rear Link
\$\$ \$\$ \	9 000	Term Control		
08007- Body Post	08029-Dogbones 90mm Front/Rear qty 2	08027- Pin 2*10	08019- Rear Lower Arm Pin B 3*30mm	08020- Front Lower Arm Pin B 3*33mm
111		企产		1
02036-Front Lower Arm Pins A 3*44mm	02063-Rear Lower Arm Pin A 3*54mm	04003-Center Dogbone	02057-Antenna Pipe	03006-Antenna Mount
				/6
02372-Servo Arm	02017-Suspension Reinforcement Brace	08008N-Wheel Rim	20126-Wheel/Tire Set qty 2	
9 9				

PARTS IDENTIFICATION

02096-3*10 Cap Head Machine Screw 6P	02097-Cap Head Machine Screw 3*14 6P	08024- Washer Screw M3*11 8P	02083-Cap Head Self- Tapping Screw3*12	02081-Cap Head Self- Tapping Screw 3*8 6P
777	111	447	ATTI	於
02101- Steering Bushing	02082-Cap Head Self- Tapping Screw 3*10 10P	02100- Wheel Hex.	02085-Round Head Self-Tapping Screw 2*8 8P	02037-E-Clip (Φ7Φ4Φ2.5Φ2.3)
	7,321	0000	नुसामा	
02139-Ball Bearing 10*5*4	02138-Ball Bearing 15*10*4	02078-Differential O-Ring	02079-Bushing 15*10*4	02080-Bushing 5*10*4
	888	0000	000	66666
06007-Shock Swivel Ball Insert	02055-M4 Nylon Lock Nut	02102- M3 Nylon Lock Nut	08021- Upper Shock Ball Studs	01083-Round Head Machine Screw 3*11 6P
96				11111
06023-Shock Ball Studs B Female Thread	02038-Ball Studs	02099- Grub Screw M4*4	02098- Grub Screw M3*4	02127-M3*14 Grub Hex. Screw 10P
	The same	*****	0000	// ///
02087-Countersunk Cross Head Self- Tapping Screw 3*10 15P	02088-Countersunk Cross Head Self- Tapping Screw 3*14	02089-Countersunk Cross Head Self- Tapping Screw 3*15	02086-Round Head Self-Tapping Screw 2*10 10P	02092-ISO 3*10 Screw 8P
含色	18/1	伦	1777	1151
81220-5-Flat Head Machine Screw 3*14 4P	02095-M3*8 Column Head Machine Screw 4P	02093-M3*10 Column Head Machine Screw 10P		
==		Mellell		

OPTIONAL PERFORMANCE PARTS





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