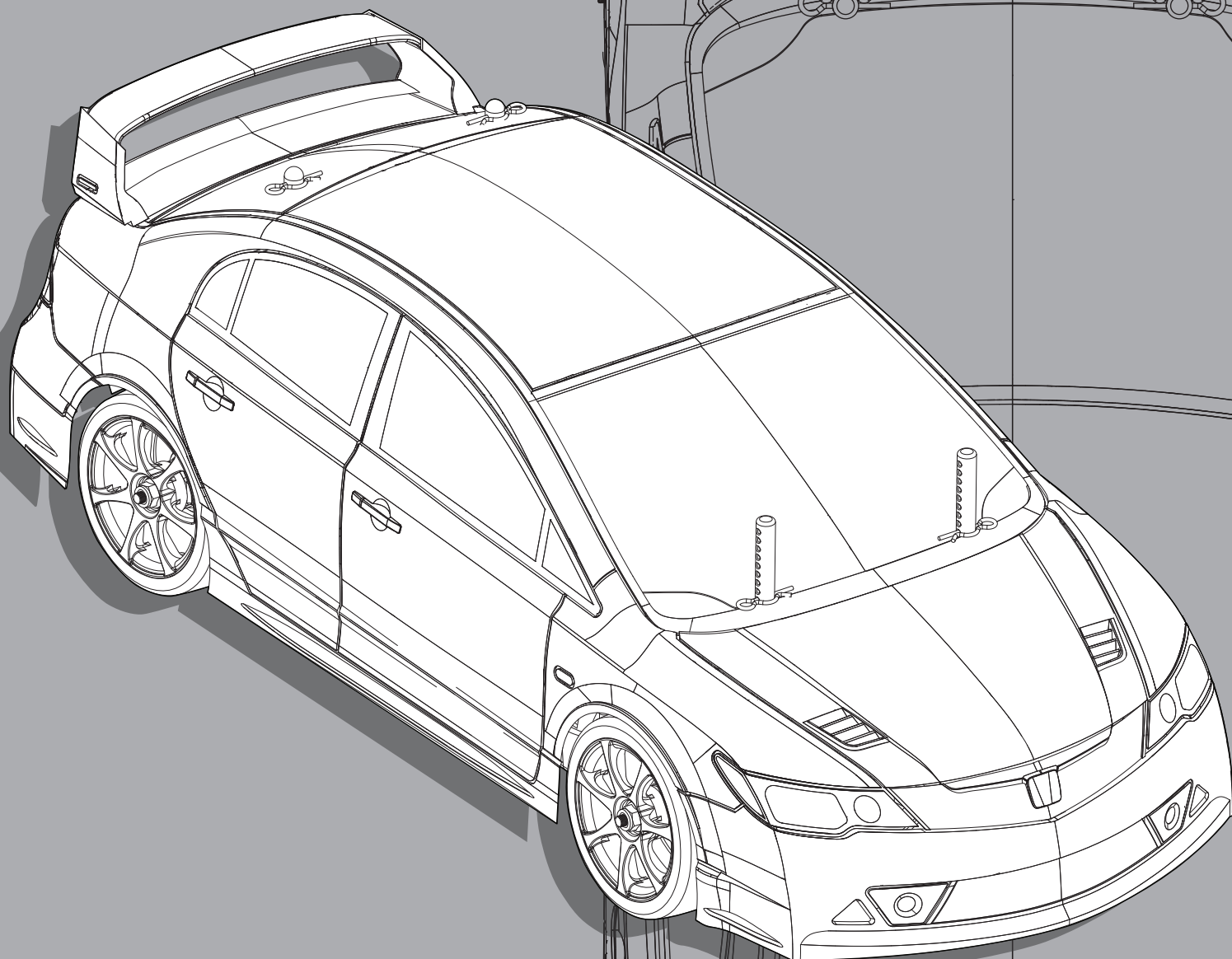


*Speed
Passion*

RS1

1/10 SCALE EP TOURING CAR



Competition X
A WEB SITE FOR THE SERIOUS RACER

Instruction Manual

Item No. 10906



1/10 SCALE EP TOURING CAR

Important Notes - General

It is necessary to be above 14 years of age to operate this model. Keep out of reach of small children. Contains small parts.

Carefully read all manufacturers warnings and cautions for any parts used in the construction and use of your model.

Assemble this kit only in places away from the reach of very small children. First-time builder schools seek advice from people who have building experience in order to assemble the model correctly and to allow the model to reach its performance potential.

Exercise caution when using tools and sharp instruments.
Take care when building, as some parts may have sharp edges.
Keep small parts out of reach of small children.

Immediately after using your model, do NOT touch equipment on the model such as the motor, electronic speed control and battery, because they generate high temperatures. You may burn yourself seriously touching them.

Follow the operations instructions for the radio equipment at all times.

Do not put fingers or any objects inside rotating and moving parts, as this may cause damage or serious injury.

The Speed Passion 2.4G Radio system automatically locates and locks onto an open channel each time you switch it on and there's no need to check what other radio frequency other drivers are on, or worry about interference from other transmitters.

Always turn on your transmitter before you turn on the receiver in the car. Always turn off the receiver before turning your transmitter off.

Keep the wheels of the model off the ground when checking the operation of the radio equipment.

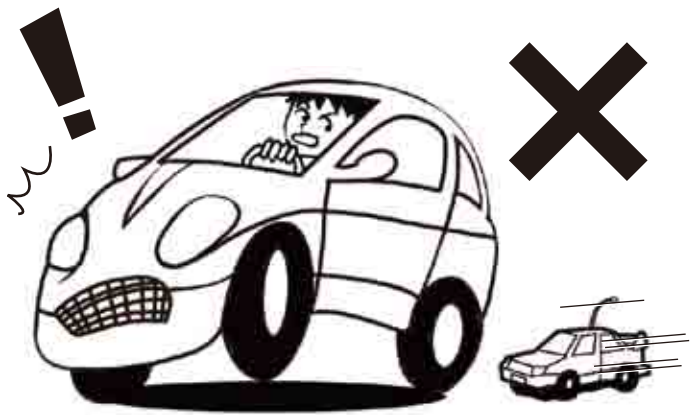
DON'T USE YOUR MODEL:

- Near real cars, animals, or people that are unaware that an R/C car is being driven
- In places where children and people gather
- In limited indoor spaces
- In wet conditions
- In the street
- In areas where loud noises can disturb others. (Such as hospitals and residential areas)
- In residential districts and areas

Safety Precautions

Equipped with high performance running battery and motor, R/C car models are capable of speeds of over 30km/h. Follow the instructions outlined below to fully enjoy operating your R/C car.

• CAUTIONS TO OBSERVE WHEN OPERATING R/C MODELS OPERATE R/C MODELS IN APPROPRIATE AREAS ONLY.



1. Never run R/C models on the road.
2. Never run R/C models in a crowded area or near small children.
3. Do not run R/C models in a narrow space or indoors. Running R/C models in improper areas may result in an accident causing serious injury or property damage.

• FOLLOW THE PROPER R/C MODEL OPERATING PROCEDURES.

- ★ Always follow the correct R/C model turning on/ shutting down procedures outlined below, or your model may run out of control resulting in a serious accident.

1. Place your model on a box or a stand so that its wheels do not contact the ground.
2. Connect battery.
3. Switch on transmitter.
4. Switch on receiver.

- ★ Opposite sequence for shutting down R/C model.

1. Switch off receiver.
2. Switch off transmitter.
3. Disconnect battery.

• NEVER TOUCH ANY ROTATING PARTS SUCH AS WHEELS, SHAFTS OR GEARS, AS YOUR FINGER, HAIR, CLOTHES, ETC. THEY MAY GET CAUGHT LEADING TO SERIOUS INJURY.

• BATTERY, MOTOR AND HEAT SINK CAN BECOME EXTREMELY HOT AFTER USE. ALLOW PARTS TO COOL BEFORE REMOVING.

• HINDERED ROTATING PARTS CAN OVERHEAT MOTOR.

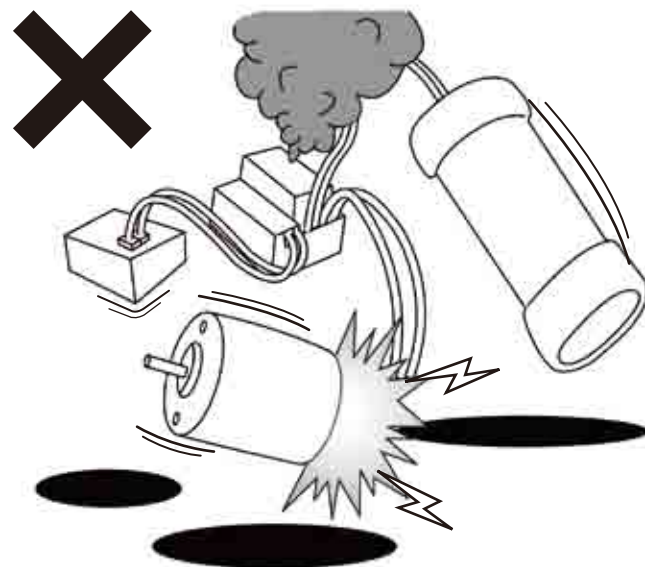
Before operating R/C cars, check the chassis for any small stones, glass or string hindering gear, drive shaft or wheel movement. Hindered movement can result in heat build up in the motor, damaging motor.

- ★ A damaged motor will shorten running time and decrease top speed. Replace with new one.

The Speed Passion 2.4G Radio system automatically locates and locks onto an open channel each time you switch it on and there's no need to check what other radio frequency other drivers are on, or worry about interference from other transmitters.

• TAKE MAXIMUM CARE IN WIRING, CONNECTION AND INSULATING CABLES.

Make sure cables are always connected securely. Check connectors as they may become loose. And if so, reconnect them securely. Never use R/C models with damaged wires. A damaged wire is extremely dangerous, and can cause short-circuits resulting in fire. Please have wires repaired at your local hobby shop.



Battery

- **LOW BATTERY POWER WILL RESULT IN LOSS OF CONTROL**

Loss of control can occur due to a weak battery in either the transmitter or the receiver. A weak running battery may also result in an out of control car if your car's receiver power is supplied by the running. Stop operation immediately if the vehicle starts to slow down.

- **RECHARGE CORRECTLY.**

Carefully follow the instruction manual supplied with battery and charger, and only recharge battery when necessary. Continual recharging may damage battery and, in the worst case, could build up heat leading to fire. If battery becomes extremely hot during recharging, please ask your local hobby shop for check/repair.

- **PLEASE DISPOSE OF BATTERIES RESPONSIBLY. NEVER PUT BATTERIES INTO FIRE.**

- **WHEN NOT USING R/C MODEL, ALWAYS DISCONNECT AND REMOVE BATTERY.**

- **DO NOT DISASSEMBLE BATTERY OR CUT BATTERY CABLES.**

If the running battery short-circuits, approx.300W of electricity can be discharged, leading to fire or burns. Never disassemble battery or cut battery cables.

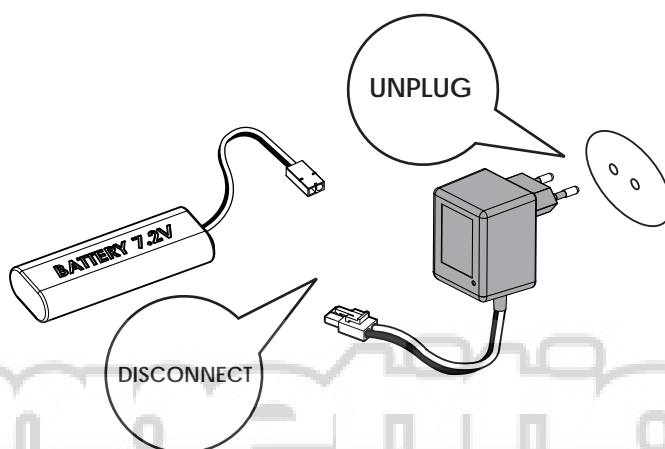
- **MODIFYING CHARGER IS DANGEROUS.**

Modifying the charger may cause a short-circuit or overcharging leading to a serious accident.

- **DO NOT RECHARGE BATTERY WHILE BATTERY IS STILL WARM.**

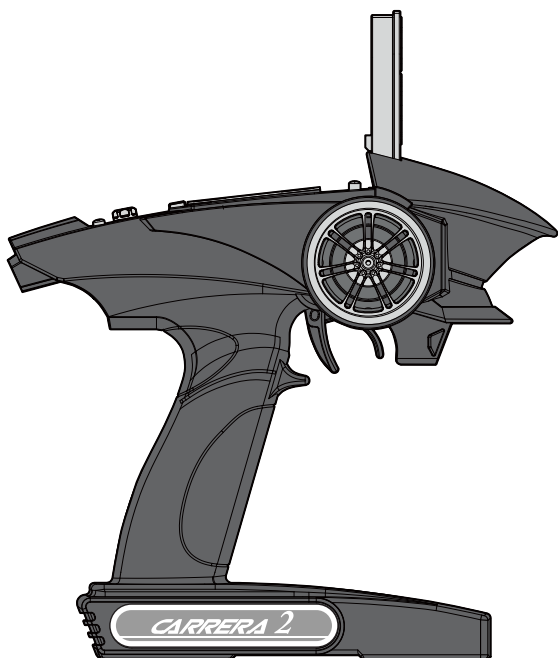
After use, battery retains heat. Wait until it cools down before recharging.

- **ALWAYS UNPLUG CHARGER WHEN RECHARGING IS FINISHED.**

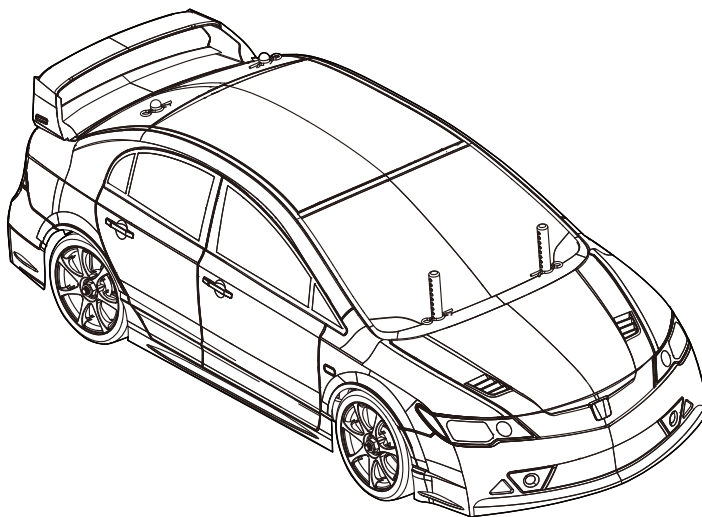


- **IMMEDIATELY STOP RUNNING IF YOUR R/C MODEL GETS WET, AS MAY CAUSE SHORT CIRCUIT IN IT'S ELECTRICAL COMPONENTS.**

Components



Carrera 2 Transmitter
R1-00310

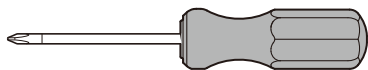


1/10 RS-1 EP Touring Car

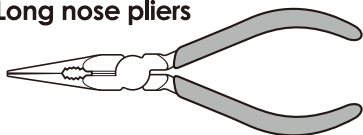


Items Recommended

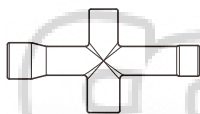
Screwdriver (small)



Long nose pliers



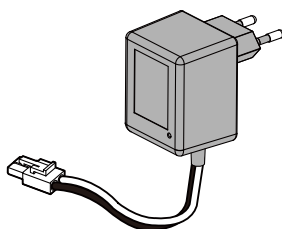
Cross wrench



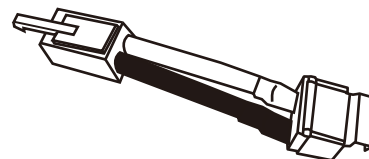
Hex wrench



Items Required



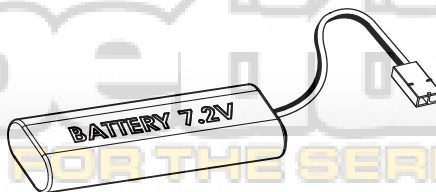
Compatible Charger



Speed Passion Connector Adapter
R1-00314

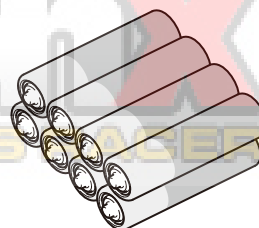


Antenna Tube
R1-00313



7.2V Ni-Cd battery

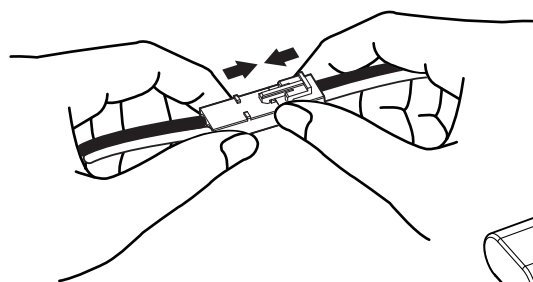
* RS-1 is only suitable for "ROUNDED EDGE" battery



AAx8

※Rechargeable batteries are to be removed from the toy before being charge
 ※Rechargeable batteries are only to be charged under adult supervision
 ※Supply terminals are not to be short-circuited

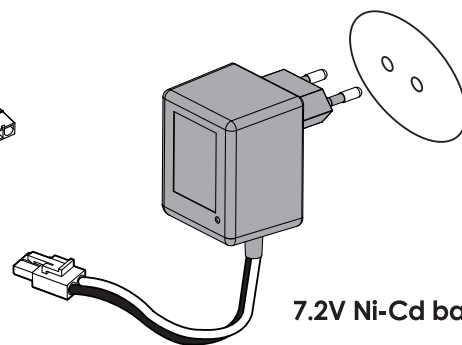
Charging Battery



• Connect firmly



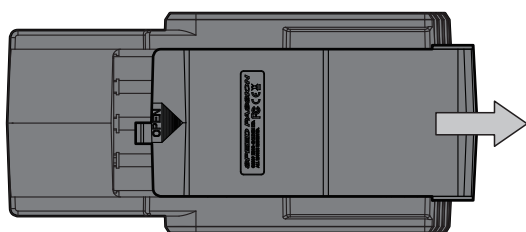
Compatible Charger



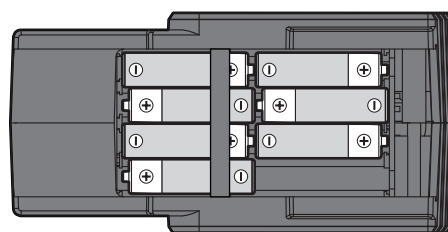
7.2V Ni-Cd battery

Installing Transmitter Batteries

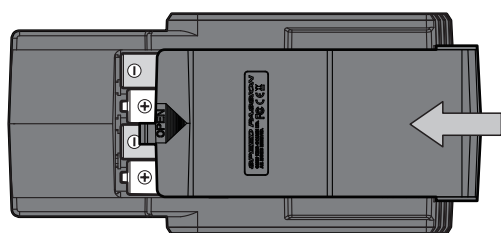
1 Remove the lid.



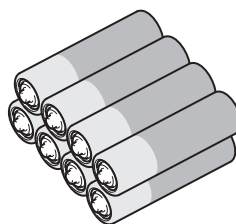
2 Load 8 AA alkaline batteries as shown in the following illustration.



3 Close the lid. It is snapped into place.

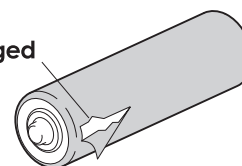


AAx8



Attention

Damaged



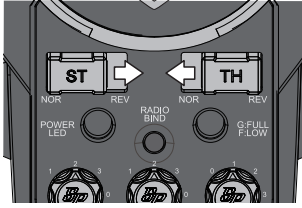
Troubleshooting

Description	Cause	Solution
Steering and Throttle Function Reversed.	Throttle trigger was pushed in wrong direction after connecting the battery.	Disconnect and reconnect battery, pull trigger forward.
Does Not Move.	Weak or no battery in model.	Install charged battery.
	Damaged motor.	Replace with new motor
	Frayed or broken wiring.	Splice and insulate wiring completely.
	Damaged ESC.	Please contact customer service
No Control.	Improper antenna on transmitter or model.	Fully extend antenna
	Weak or no batteries in transmitter or model.	Install charged or fresh batteries
	Another radio control model using same frequency.	Try a different location or wait for the other person to finish.

Transmitter Preparation

Reverse Switch

Servo Factory Settings



Antenna

Extend the antenna to the maximum length for best performance.

Steering Trim



To be used for trimming the steering operation.

ST.D/R

Steering Dual Rate



To be used to adjust steering servo rate and range.

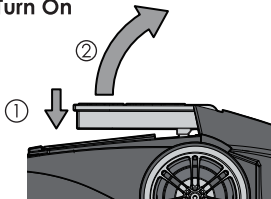
Throttle Trim



To be used for trimming the throttle operation.

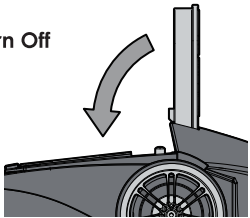
Power Switch

Turn On



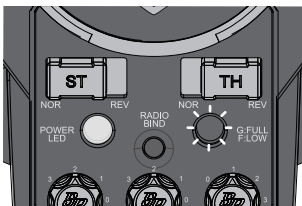
Press the antenna until it press the On/Off switch, then flip the antenna to vertical position.

Turn Off



Flip the antenna down until it press the On/Off switch.

Battery Level Indicator



When the power of batteries are low, you will see the twinkle blue light.

※Please use rechargeable batteries when you are recharging.

Transmitter Battery Installation

Open battery cover at the bottom of transmitter. Install batteries. Follow the direction of batteries designated in the inside of battery box.

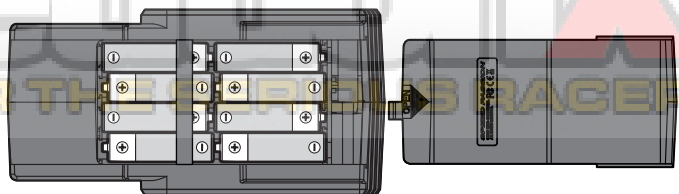


8X AA Alkaline Batteries

Attention

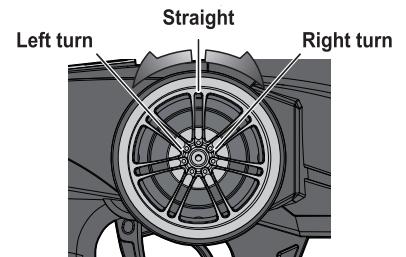
! Do not mix batteries of different ages or types.

Battery Cover



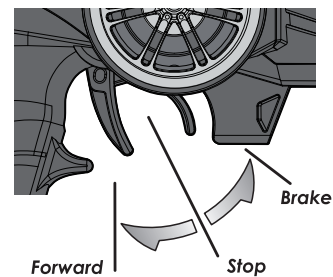
Steering Wheel

To be used for steering operation.



Throttle Trigger

To be used for throttle operation.



System Specifications

Transmitter

Frequency	2.4GHz
Modulation	GFSK
Battery	AAx8(UM-3x8)
RF Power	Less than 20dbm
Size	227x268x97mm
Weight	357g

Receiver

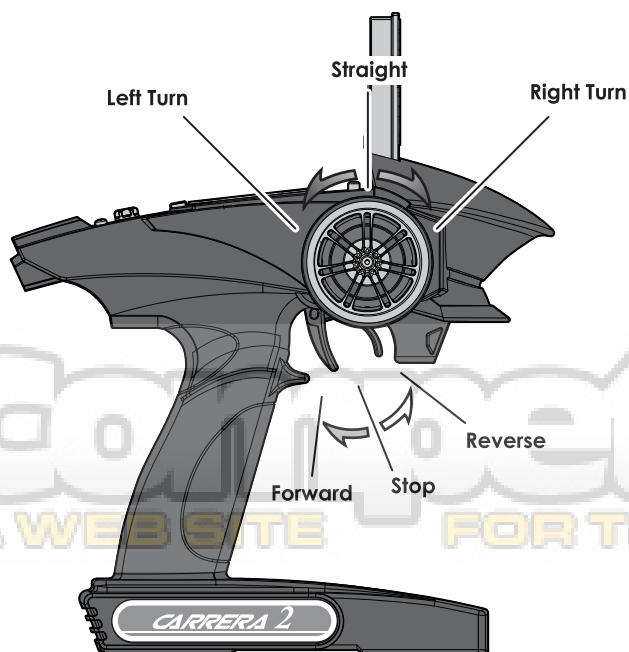
Frequency	2.4GHz
Modulation	GFSK
Range	20KHZ
Operation Voltage	4.5-6Vdc
RF Receiver Sensitivity	-100dbm
Size	36.5x23.3x13.3mm
Weight	6g

Servo

Power Supply	4.8V~6V(shared with receiver)
Output Torque	3kg-cm
Operating Speed	0.23sec/60°degrees of travel
Size	40.5x20x36.8mm

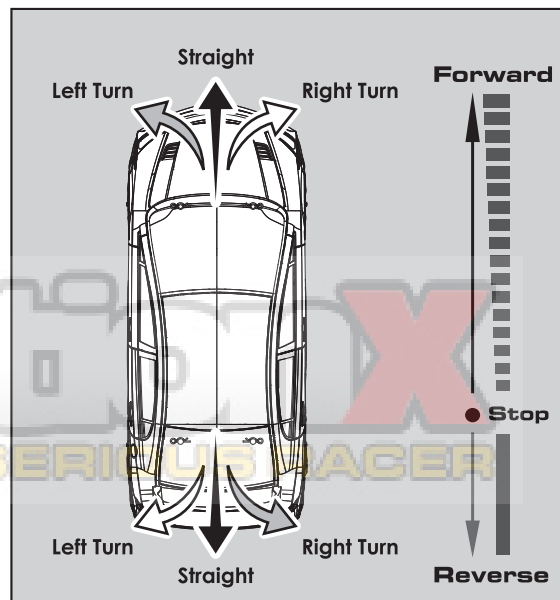
Electric speed controller

Power Supply	7.2V
Burst Current	90A
Battery	4-9 Cell Ni-xx(NiMh or Nicd) or 2 Cell Li-Po / 2 to 3 Cell Li-Fe
ESC Type	D-Manager 2.0 / Inspire 2.0 Sensor less Short Course Master Sensored
BEC Voltage	6V/2A
Size	32x28x18mm
Weight	73g



Transmitter Operation

Steering Wheel and Throttle Trigger



Electronic Connections

Speed Controller Set up

The speed controller set up procedure is automatic and does not require the user to adjust its computer settings. The input voltage range is 6V – 8V. Please follow these instructions below to ensure your model operates properly.

- 1) Ensure the battery is fully charged before operating your model
- 2) Ensure that all electronics are setup as shown below before operating your model
- 3) Turn on the electronic speed controller. (You will notice that a green light will be flashing and constant beeping will occur)
- 4) Adjust the trim on your transmitter to neutral position. Turn on the transmitter. (You will notice that the flashing green light and the constant beeping will cease)

Testing the Speed Controller and Transmitter

Forward / Accelerate

Pull back throttle from neutral position. Note: the light will not illuminate on the speed controller.



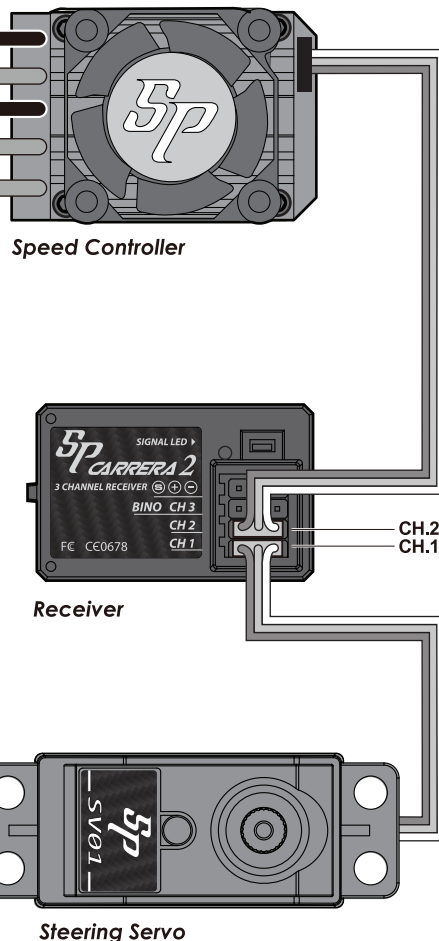
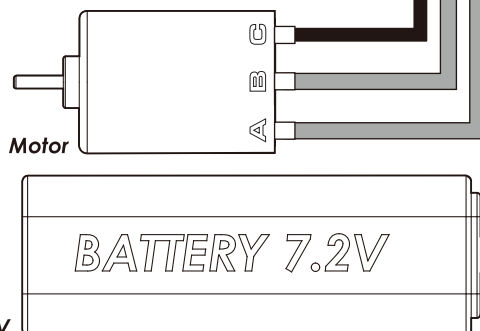
Stop / Braking

Push the throttle full forward to initiate full braking sequence. Note: the light will illuminate yellow on the speed controller.



Reverse

From the braking position, release the throttle to neutral position and push forward the throttle again full forward to initiate the reverse function. Note: the light will not illuminate on the speed controller.



Attention

When your RC car does not move and hearing the beep sound from ESC:



Situation 1:



no beep
sound

It means: No signal(Frequency number is wrong / Can not receive the signal from transmitter)



Situation 2:



beep beep beep beep beep beep

It means: Battery 7.2V is low power



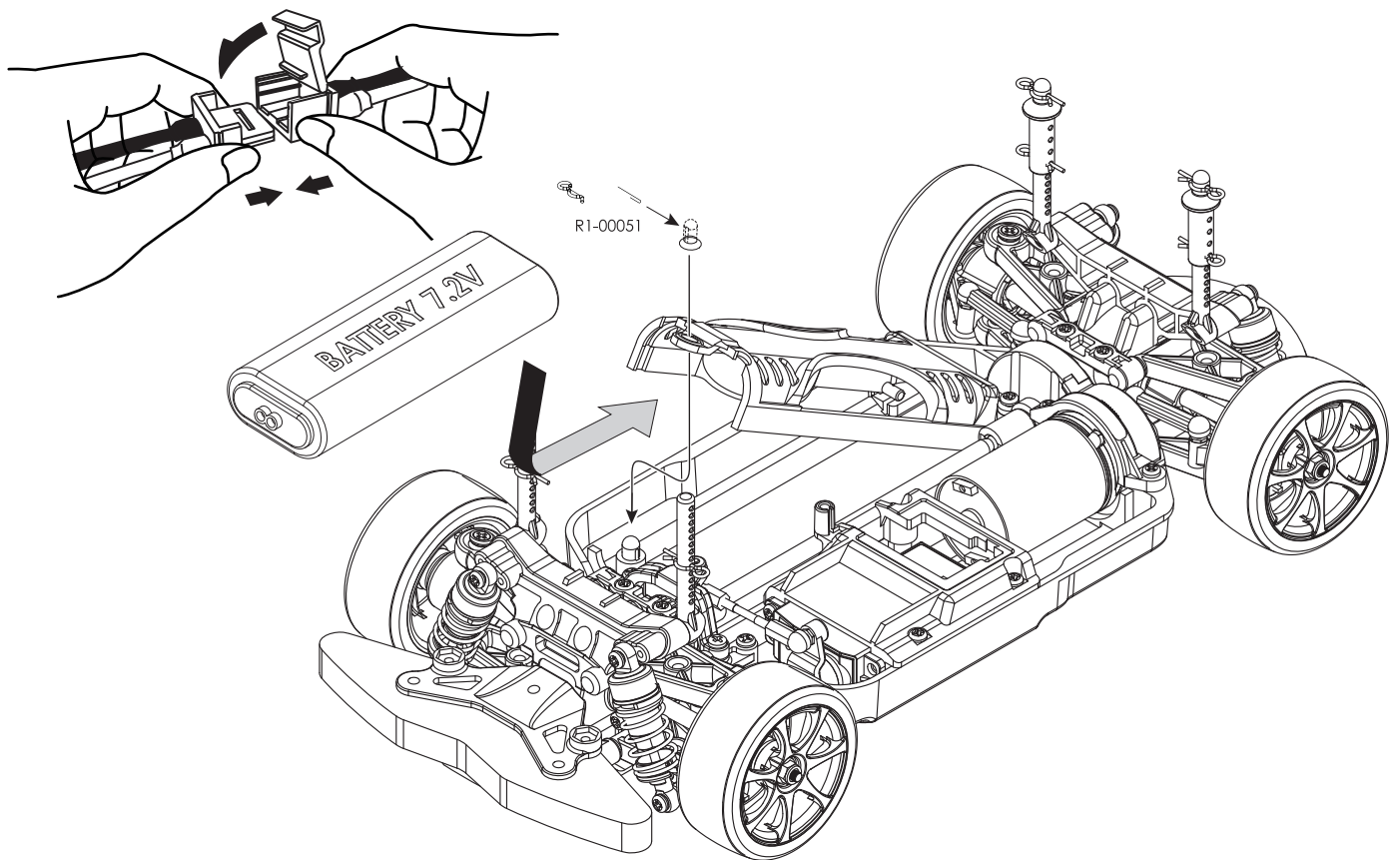
Situation 3:



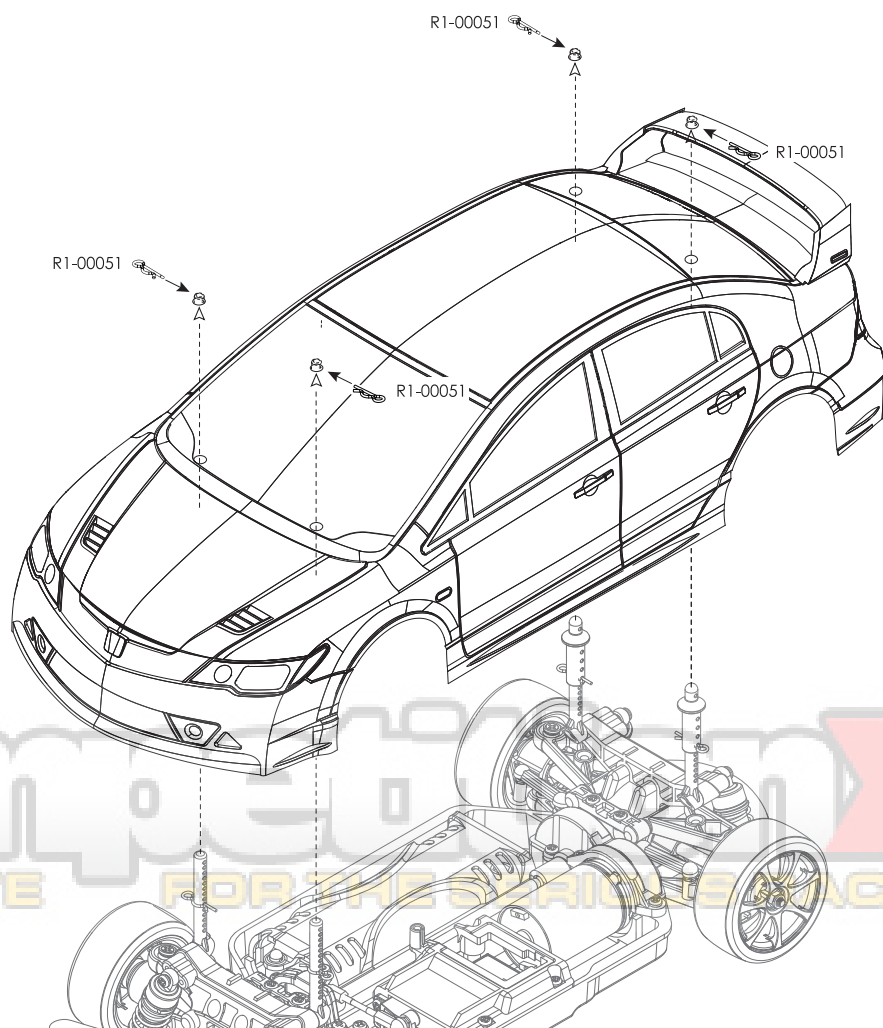
beep beep beep beep beep beep beep beep beep

It means: Motor is over loading / The temperature of ESC is too high

Installing Battery



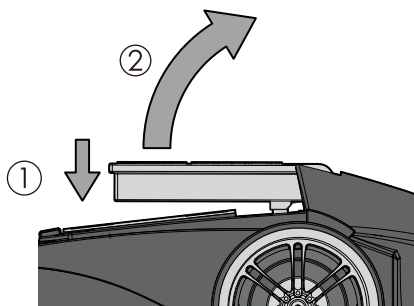
Attaching Body



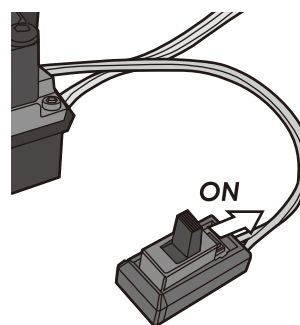
COMPETITIONX
A WEB SITE FOR THE STRAIGHT RACER

R/C Operating Procedures

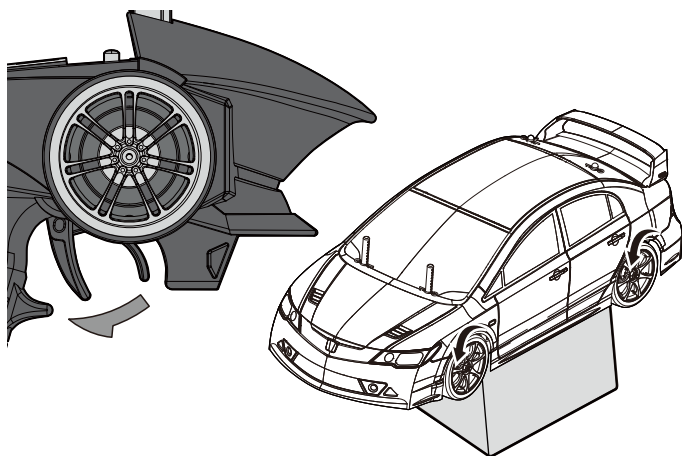
- 1** Turn on transmitter.



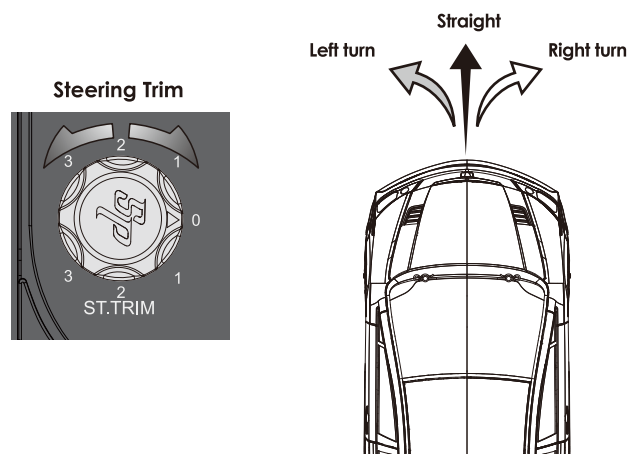
- 2** Turn on electronic speed controller.



- 3** Pull throttle trigger forward. (ESC forward set up)

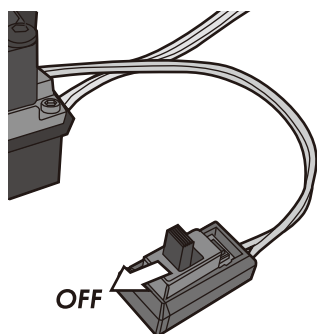


- 4** If the car does not drive straight, adjust the steering trim.

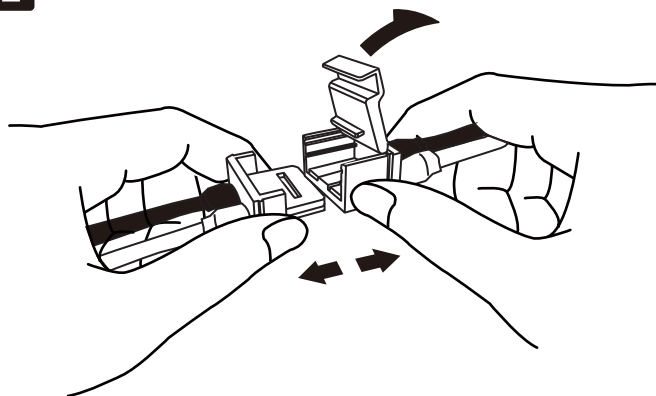


When You're Finished

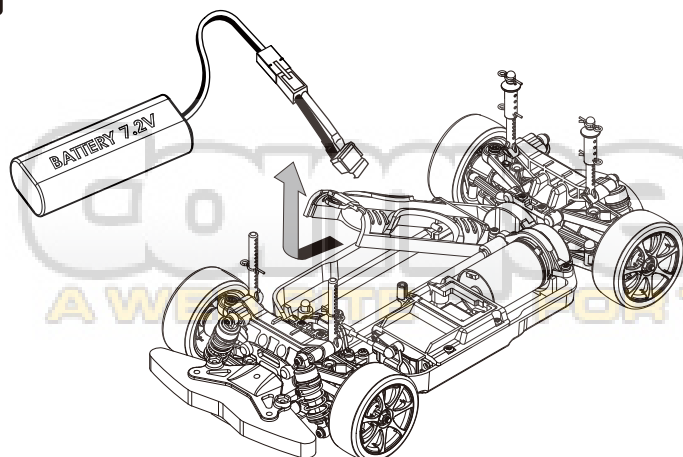
- 1** Turn off electronic speed controller.



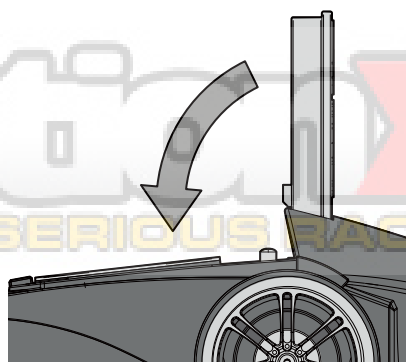
- 2** Disconnect battery.



- 3** Take out the battery from car.

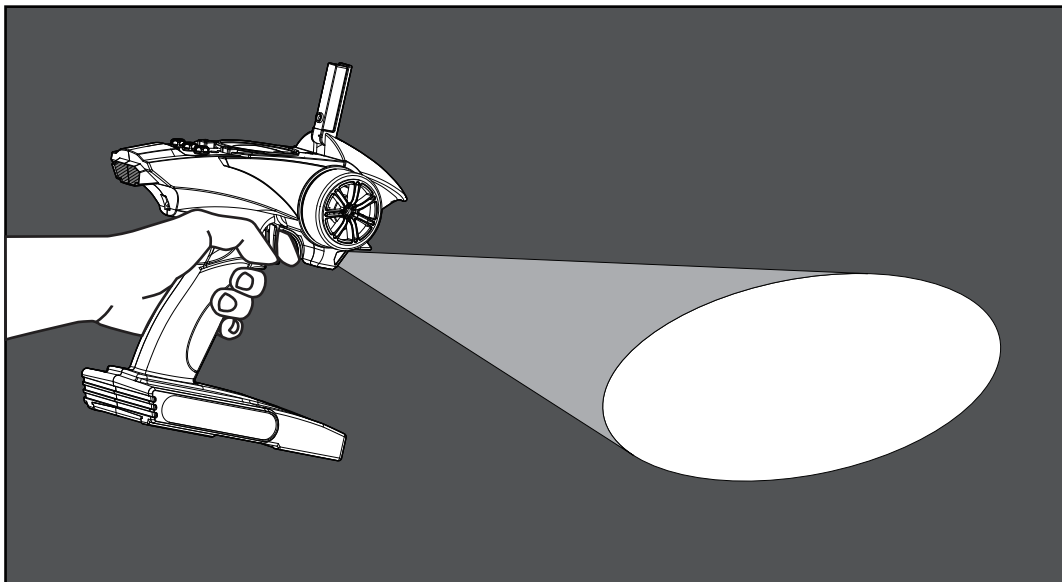
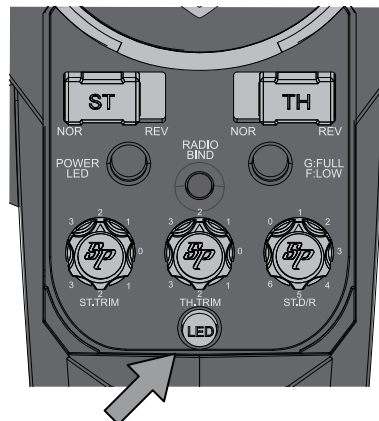


- 4** Turn off transmitter and flip the antenna down.



Additional Function

- When you switch on the transmitter, you can press the LED button on the panel to switch on the lighting function.



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1/10 SCALE EP TOURING CAR

Memo



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www.speedpassion.net

Email: sale@king-golden.com
Tel: (852) 3586-2398 Fax: (852) 3586-2148

USA Support email: usasupport@king-golden.com
USA Toll Free line: 866-369-0636

