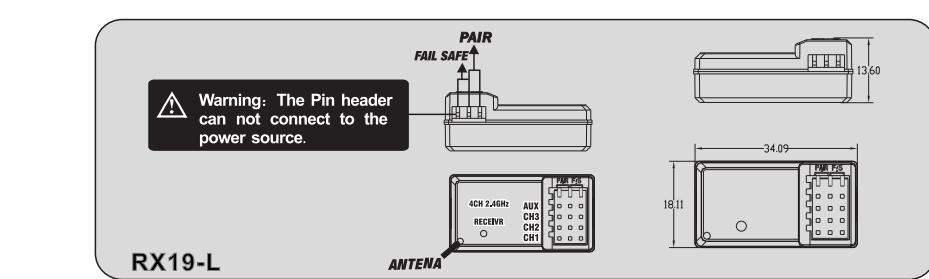
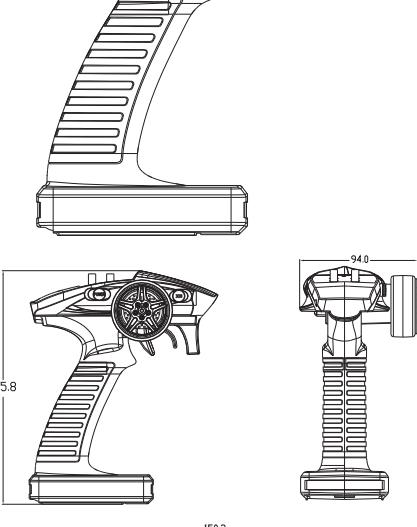
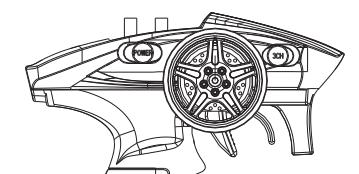




RGT 1/10 Rock Hammer Instruction Manual

| LENGTH | WIDTH | HEIGHT | WHEEL BASE | GROUND CLEARANCE | DIAMETER OF WHEEL | WIDTH OF WHEEL | GEAR RATIO |
|--------|-------|--------|------------|------------------|-------------------|----------------|------------|
| 505mm | 280mm | 235mm | 345mm | 95mm | 142mm | 54mm | 48:1 |

INSTRUCTION MANUAL

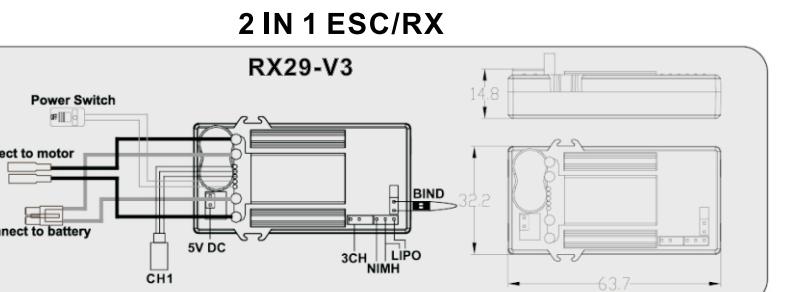
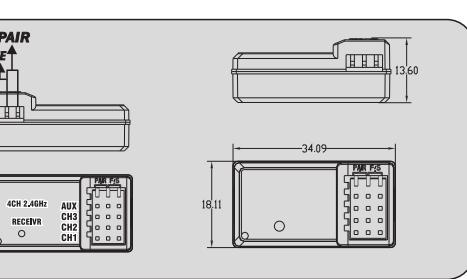
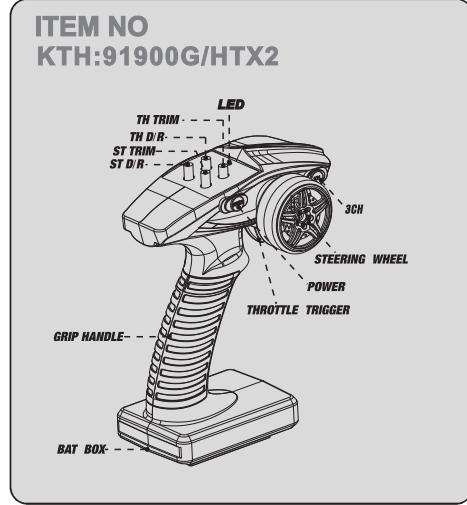


Install the batteries

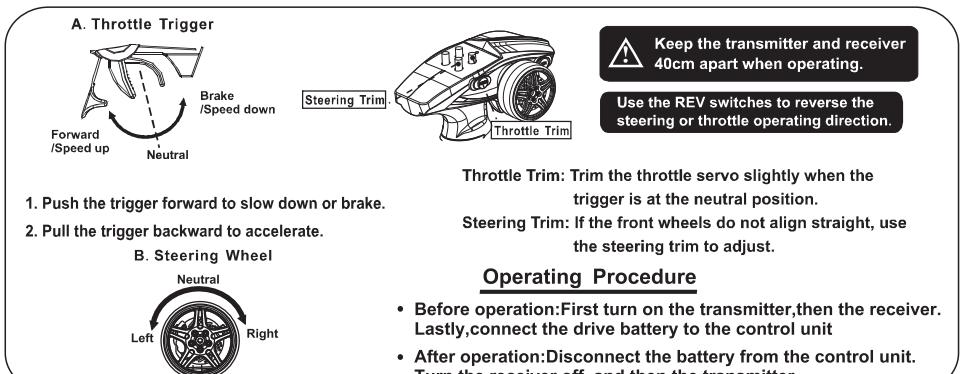
- (1) Remove the battery compartment cover.
- (2) Replace the used batteries with new AA size batteries.

Please replace batteries when the power indicator blinks or the buzzer beeps.

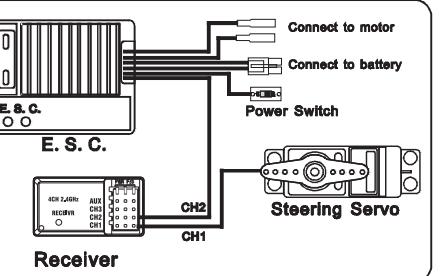
Function



Transmitter Adjustment



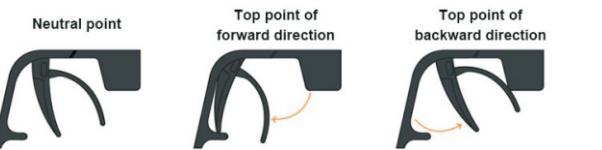
Electrical powered model



[BEEP SOUND AND LED STATUS]

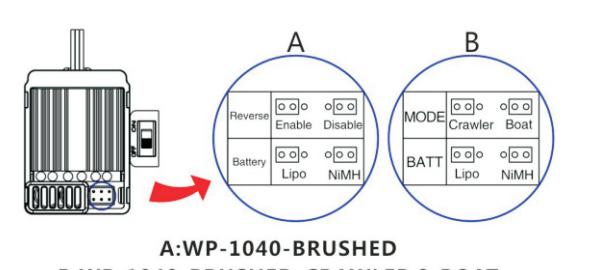
| The Meaning of Beep Sound | LED Status |
|--|---|
| # 1 short Beep: The battery is NiMH/NiCd | # When the throttle stick is in neutral range, red LED is off |
| # 2 short Beeps: The battery is 2S Lipo | # Forward, brake or reverse at partial throttle, red LED blinks |
| # 3 short Beeps: The battery is 3S Lipo | # Forward, brake or reverse at full throttle, red LED is solid |
| # 4 short Beeps: The battery is 4S Lipo | |
| # 1 long Beep: Self-test and throttle calibration is OK, the ESC is ready to run | # Forward, brake or reverse at full throttle, red LED is solid |

[THROTTLE STICK POSITION]



[SET THE ESC]

The ESC is programmed by the jumpers (Tweezers is recommended to plug and unplug the jumper).



[PROTECTION FUNCTIONS]

1. Low voltage Cut-off (LVC) protection: If the voltage of battery pack is lower than the threshold for 2 seconds, the ESC will enter the protection mode. When the car stops, the red LED blinks to indicate the low voltage cut-off protection has been activated.

Table A: LVC protection for WP-1040-BRUSHED, (F/B/R or F/B mode).

| 2S Lipo |
|--|
| Output reduces 50% at 6.5V |
| Output cuts off at 6.0V, cannot be recovered |

Table B: LVC protection for WP-1040-BRUSHED-CRAWLER&Boat,

2S Lipo

| 2S Lipo |
|---|
| Output cuts off at 6.5V. If the throttle stick moves to neutral and then up again, the output can be recovered to 50%. If the voltage drops to 6.5V again, the above process repeats in circles. |

2. Over-heat protection: When the internal temperature of the ESC is higher than 100 Celsius degree or 212 Fahrenheit degree for 5 seconds, the ESC will reduce and cut off the output power. When the car stops, the red LED blinks to indicate the over-heat protection has been activated. If the ESC cools down to 80 Celsius degree (176 Fahrenheit degree) the output power is recovered to normal state.

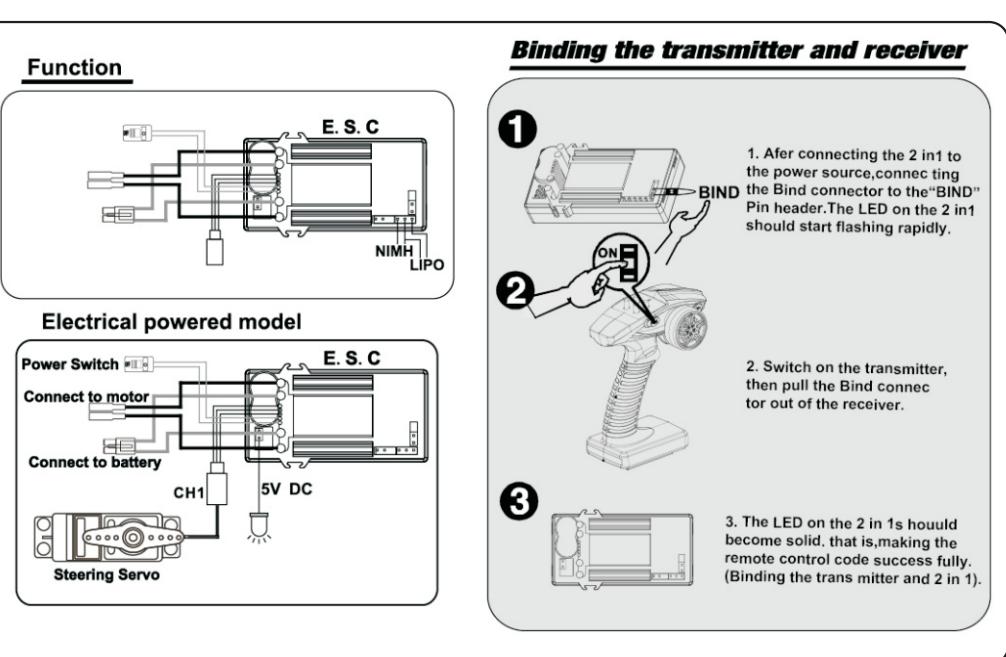
3. Throttle signal loss protection: The ESC will cut off the output power if the throttle signal has been lost for 0.1 second. The "Fail Safe" function of the radio system is strongly recommended to be activated.

[THE DIFFERENCE BETWEEN "BRUSHED" AND "BRUSHED-CRAWLER&BOAT" ESC]

1. "Brushed" and "Brushed-Crawler& Boat" ESCs have different backward-running modes. "Brushed" ESC uses "Double-Click" method to make the car go backward. When you move the throttle stick from forward zone to backward zone for the first time, the ESC begins to brake the motor, the motor speeds down but still running, so the backward action is NOT happened at this moment. When the throttle stick is moved to the backward zone again (The 2nd "click"), if the motor speed is slowed down to zero (i.e. stopped), the backward action will be activated. The "Double-Click" method prevents mistakenly reverse when the brake function is frequently used in steering.
2. The maximum reverse force (for backward running) is 50% for the general "Brushed" ESC, 100% for the "Crawler" mode of a "Brushed-Crawler & Boat" ESC, and 25% for the "Boat" mode of a "Brushed-Crawler & Boat" ESC.
3. The Low Voltage Cut-off Protection modes are different (Please check the instructions in the section of "PROTECTION FUNCTIONS").

[TROUBLE SHOOTING]

| Trouble | Possible Reason | Solution |
|--|--|--|
| After power on, motor can't work, no sound is emitted, and LED is off. | The ESC doesn't get its working voltage; Connections between battery pack and ESC are broken. | Check the battery wires connection or replace the defective connectors. |
| Switch is damaged. | Replace the switch. | |
| After power on, motor can't work; red LED blinks. | Check the throttle wire connection; make sure it is plugged into the throttle channel of the receiver. | |
| Automatic throttle range calibration is failed. | Set the "TRIM" of throttle channel to 0 or turn the knob to its neutral position. | |
| The car runs backward while giving throttle. | The wire connections between ESC and the motor need to be changed. | Swap two wire connections between the ESC and the motor. |
| The car can't go backward. | The jumper position is wrong. | Check the jumper and plug it to the correct position. |
| The neutral point of throttle channel is changed or drifted. | Set the "TRIM" of throttle channel to 0 or turn the knob to its neutral position. | |
| The car can't go forward, but can go backward. | The direction of throttle channel is not correct. | Reset the direction of throttle channel from original "NOR" to "REV", or from original "REV" to "NOR". |
| The motor doesn't work, but the LED in the ESC works normally. | The connections between motor and ESC are broken. | Check the connections and replace the defective connectors. |
| Motor is damaged. | Replace the motor. | |
| The motor suddenly stops running while in working state | The throttle signal is lost. | Check the transmitter and the receiver. |
| The car cannot get top speed and the red LED doesn't solid on at full throttle | Low voltage cut-off protection or Over-heat cut-off protection has been activated. | Replace the battery pack, or cool down the ESC. |
| Some setting in the transmitter are incorrect. | Check the settings. | Set D/R, EPA, ATL to 100% or turn the knobs to maximum value. |
| Motor is cogging when accelerated quickly. | The battery has limited discharge ability. | Use battery with better discharge ability. |
| Motor RPM is too high, the gear ratio is too aggressive. | Motor RPM is too high, or use smaller pinion to get softer gear ratio. | Use motor with lower RPM, or use smaller pinion to get softer gear ratio. |
| Something wrong in the driving system of the car. | Check the driving system of the car. | |



ESC Instruction

The power system for RC model can be very dangerous, please read this manual carefully. In that we have no control over the correct use, installation, application, or maintenance of our products, no liability shall be assumed nor accepted for any damages, losses or costs resulting from the use of the product.

FEATURES

1. Water-proof and dust-proof for all weather races.
2. Small size with built-in capacitor module.
3. Automatic throttle range calibration, easy to use.
4. Multiple protections: Low voltage cut-off protection for Lipo or NiMH battery / Over-heat protection / Throttle signal loss protection.
5. Easily programmed with the jumpers.

[SPECIFICATIONS]

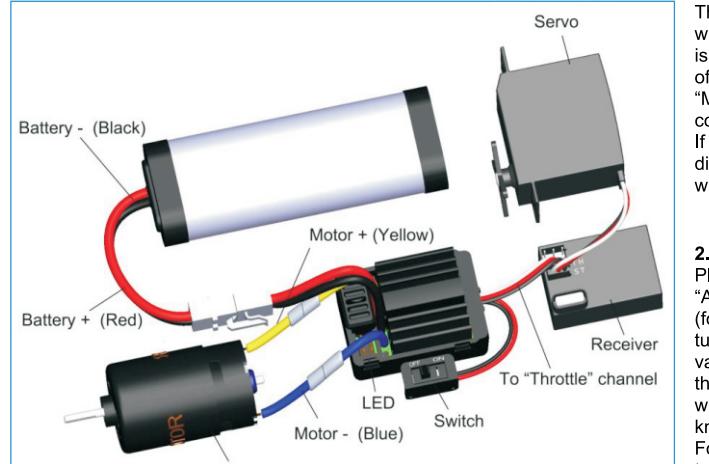
| Model | WP-1040-BRUSHED | WP-1040-BRUSHED-CRAWLER& Boat * |
|-----------------------|--|---|
| Cont. / Burst Current | Forward: 40A / 180A Backward: 20A / 90A | |
| Input | 2-3S Lipo, 5-9 Cells NiMH | |
| Cars Applicable | 1:10 Crawler, Boat | |
| Motor Limit | 540 or 550 size motor ≥ 12T or RPM < 30000 @ 7.2V 3S Lipo or 7-9 cells NiMH | 540 or 550 size motor ≥ 18T or RPM < 20000 @ 7.2V |
| Resistance | Fwd: 0.002 Ohm, Bwd: 0.004 Ohm | |
| Built-in BEC | 2A/6V (Linear mode BEC) | |
| Dimension& Weight | WP-1040-BRUSHED: 46.5*28.5, 65g WP-1040-BRUSHED-CRAWLER: 46.5*28.5, 70g | |

[BEGIN TO USE]

1. Connect the ESC, motor, receiver, battery and servo according to the following diagram

+" and "-" wires of the ESC are connected to the battery pack.

Attention: The incorrect polarity will damage the ESC immediately.



The control cable of the ESC (trio wires with black, red and white color) is connected to the throttle channel of the receiver (usually CH2). The "Motor +" and "Motor -" wires are connected to ESC without any order. If the motor runs in the opposite direction, please swap these two wire connections.

2. Set the Transmitter

Please set the "D/R", "EPA" and "ATL" to 100% for throttle channel (for transmitter without LCD, please turn the knobs to the maximum value), and set the "TRIM" of the throttle channel to 0 (for transmitter without LCD, please turn the TRIM knob to its neutral position).

For Futaba™ and the similar transmitters, the direction of throttle channel shall be set to "REV", while other radio systems shall be set to "NOR".

The "Fail Safe" function of the radio system is strongly recommended to be activated. Please make sure that the motor can be stopped when the "Fail Safe" happens.

3. Throttle Range Setting (Throttle Range Calibration)

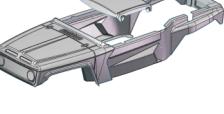
In order to make the ESC match the throttle range of different transmitters, the calibration of the ESC is necessary.

To calibrate the ESC, please turn on the transmitter, keep throttle stick at its neutral position, wait for 3 seconds to let the ESC execute self-test and automatic throttle calibration. When the ESC is ready to run, a long beep sound is emitted from the motor.

Note: Please calibrate the throttle range again when using a new transmitter or changing the settings of the neutral position of throttle channel, D/R, ATP, ATL or EPA parameters, otherwise the ESC may not work properly.

Spare Part

| | | | |
|---|---|---|---|
| 18110-Front And Rear Axle Cover | 18003-Center Link Mount | 18004-Steering Spindle With Bushing Included | 18006-Front Steering Hub |
| 18010-Aluminum Servo Plate With Mount | 18018-Chassis Skid Plate | 18120-Front & Rear Universal Main Drive Shaft | 03200-Battery (Ni-MH 7.2V 2000mAh) |
| 18170 -Complete Built Transmission Set | (whole part) | (20T) (53T) (10*35mm) (2.5*17mm) | (28T) (5*18mm) (2*9mm) (87T) |
| 18129-Transmission Gear Set(20T+28T+53T) | 18130-Transmission Gear Housing Set With 3x24mm Screw 3pcs | 18165-Front/Rear Axle Pinion And Ring Gear Set (Metal Gear 38T+13T) | 18131-Front/Rear Solid Axle Hub |
| 18166-Transmission Gear Hardware Set (Shaft & Pin) | 18141-Front Bumper With Winch Mount Ready & LED Light Holder Included | 18142-Body Post Set | 18143-Front Bumper Mount And Chassis Holder Set |
| 18144-Chassis Brace Set | 18145-Electronics And Battery Tray Set With Battery Strap | 18146-Rear Straight Axle Cover | 18160-Shock Absorber |
| 18161-Shock Spring (Medium) | 18147-Suspension Linkage Ball Cup Set | 18148-Shock Plastics Parts Set 24P | 18156-Aluminum Anodize Chassis Plate Set |
| 18149-RGT-WARHEAD RX29-V3 2in1 Receiver Built In Brushed ESC (Waterproof) | 20pcs | 4pcs | 02053-Body Clip |
| 18167-LED Light | 20pcs | 4pcs | 18167-LED Light |

| Spare Part | | | | |
|---|---|---|--|---|
| 68182-RGT HTX-2 2.4ghz 3 Channel Radio Transmitter  | 68179-RGT RX19-L 3 Channel Waterproof Receiver  | 03221-O -Travel Charger  | SP1501-15kg Metal Gear Waterproof Servo  | |
| 13660-Finished Body Panel (Red)  | 13660-1-Finished Body Panel(Yellow)  | 13660-2-Finished Body Panel(Blue)  | 13660-3-Pre-Cut Transparent Body (Transparent LEXAN)  | |
| 18168-Vehicle Hardware & Screw Bag | | | | |
| 08027-Pin 2*10  X4 | 18150-Oring Locker  X4 | 68035-E-Clips ϕ 3.2  X2 | 50043-E-Clips ϕ 4.0  X4 | 18033-Ball Bearings (5*10*4)  X17 |
| 18032-Ball Bearings (10*15*4)  X10 | 02102-Nylon Nuts M3  X39 | 02055-Nylon Nuts M4  X1 | 14598-Wheel Locknut M4  X4 | 68055-Column Head Self- Tapping Screw 2*5mm  X24 |
| 18151-Round Head Self-Tapping Screw 2.5*10mm  X8 | 98068-Cap Head Machine Screw M3*8  X21 | 02096-Cap Head Machine Screw M3*10  X20 | 98064-Cap Head Machine Screw M3*12  X7 | 98066-Cap Head Machine Screw M3*14  X4 |
| 18042-Cap Head Machine Screw M3*16  X17 | 18043-Cap Head Machine Screw M3*20  X19 | 18046-Cap Head Machine Screw M3*26  X5 | 98069-Cap Head Machine Screw M4*8  X2 | 18048-Countersink Head Machine Screw M3*10 8P  X12 |
| 02099-Grub Hex. Screw M4*4  X4 | 86081-Grub Hex. Screw M3*3  X5 | | | |

| Upgradable Optional | | | |
|--|---|---|--|
| 180001-Center Link Ball Mounts (AL.)  | 180002-Steering Arm Mounts (AL.)  | 180003-Caster Mounts (L/R) (AL.)  | 180006-Chassis(A)  |
| 180009-Connect Box (W/Gear 38T) (AL.)  | 180010-Servo Mount (AL.)  | 180013-Gear Box (Shell Only) (AL.)  | 180016-Wheel Hex W/Pins (2*10) (AL.)  |
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