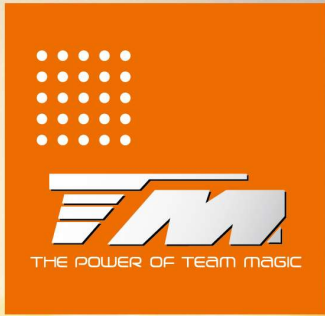




B8ER II

1/8 EP BUGGY



- NO.560022 INSTRUCTION / SETUP MANUAL -

TEAMMAGIC



560022 - 1/8 EP RACING BUGGY RTR [3S-4S]

Thank you for choosing the Team Magic 1/8 EP Racing Buggy RTR [3S-4S]

Team Magic 1/8 B8ERII EP Racing Buggy RTR [3S-4S]

Engineered with precision, high-quality components, and a durable chassis, the B8ERII is built to deliver outstanding performance and long-lasting reliability.

Before you get started, please take a few moments to read through this manual carefully. It will help you achieve optimal performance and ensure safe, trouble-free operation.

We hope you enjoy driving your new Team Magic B8ERII Racing Buggy!

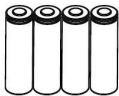
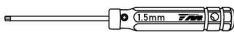
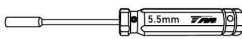
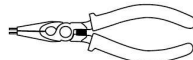
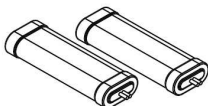
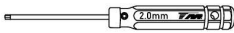
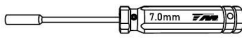
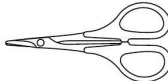
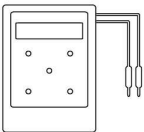
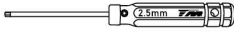
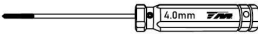
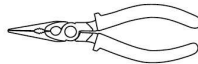
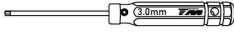
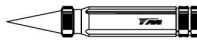
General Operation Tips

- Read this manual thoroughly before assembling or operating your buggy.
- Prepare a clean workspace. A light-colored desk mat can help you easily locate small dropped parts.
- Avoid overtightening screws or fasteners, as this may strip threads or damage components.
- Start operation slowly and check for any abnormal resistance, noise, or binding.
- If parts do not fit smoothly, inspect their alignment and reposition them carefully.
- For support or spare parts, contact your local authorized Team Magic dealer or visit the Team Magic Model website.
- Use the correct tools to make assembly and maintenance easier and more precise.

[Choosing a reputable dealer is essential.]

A trusted hobby dealer can provide valuable advice, support, and help resolve most issues you may encounter during setup or operation.

[Required Items and Helpful Equipments]

Required Items	Helpful Equipments	Helpful Equipments	Helpful Equipments
•AA Battery x4 	•TM RC Hex Wrench 1.5mm #117057-1 	•TM HC Nut Driver 5.5mm #117010 (For 3mm Nut) 	•Circlip Plier #117032 
Required Items	Helpful Equipments	Helpful Equipments	Helpful Equipments
•7.4v Lipo Battery x2 	•TM RC Hex Wrench 2.0mm #117057-2 	•TM HC Nut Driver 7.0mm #117011 (For 7mm NUT) 	•Curved Scissors #116006 
Required Items	Helpful Equipments	Helpful Equipments	Helpful Equipments
•Lipo Battery Charger 	•TM RC Hex Wrench 2.5mm #117057-3 	•Philips Screw Driver 4.0mm #117024 	•Needlenose Pliers 
	•TM RC Hex Wrench 3.0mm #117057-4 	•Body Reamer #117030 	•Hobby Knife 

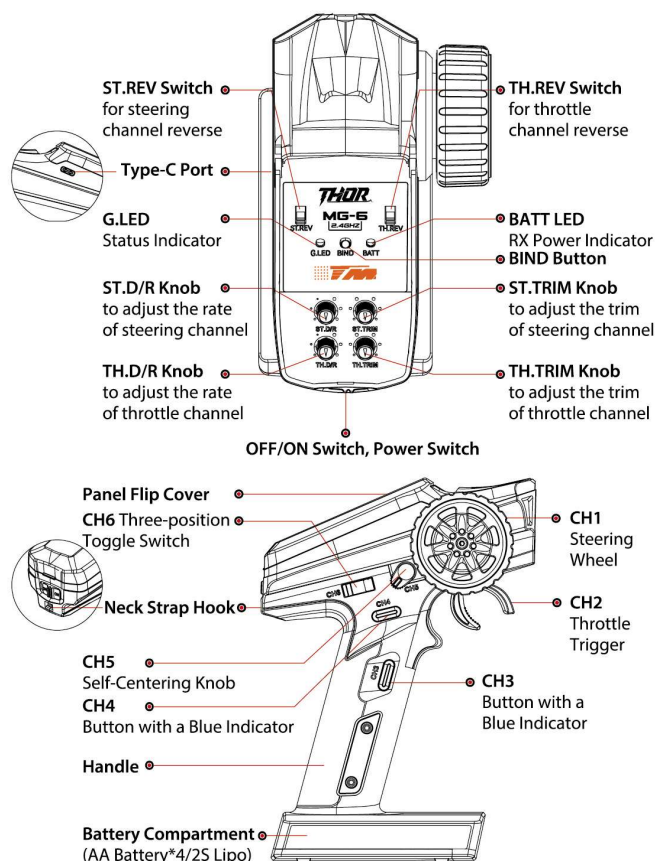


TRANSMITTER USER MANUAL

THOR MG-6 / RD-6 2.4G Transmitter and Receiver

[THOR 191032]

[Transmitter Overview]



[Transmitter Specifications]

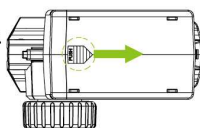
- Product Model : MG-6
- Compatible Receivers : RD-6
- Number of Channels : 6
- Compatible Models : RC CARS
- RF : 2.4GHz ISM
- Maximum Power : <20 dBm
- 2.4GHz Protocol : 2A-BS
- Distance : $\geq 150\text{m}$
- Resolution : 4096
- Input Power : 3.5 - 8.4V/dc
- Working Current : 60mA/6V
- Charging jack : none
- Low Voltage Alarm : AA <4.2V; LiPo <7.0V
- Antennas : Single Built-in Antenna
- Data / online Output : none
- Temperature Range : -100C ~ +600C
- Humidity Range : 20% ~ 95%
- Dimensions : 135.7*189.5*82.7mm
- Weight : 217g
- Certifications / NCC ID : CCAJ24LP5800T2

[Antenna]

- The transmitter has a built-in antenna. It activates automatically when powered on (no manual setup needed).

[Battery Installation]

- Installing AA Batteries:**
Open the battery cover $\rightarrow$ Insert 4 AA batteries and matching the polarities $\rightarrow$ Close the battery cover.
- Installing a LiPo Battery:**
Open the battery compartment cover $\rightarrow$ Insert the 2S LiPo battery $\rightarrow$ Connect the battery cable to the JST jack $\rightarrow$ Close the cover.
- Battery Safety**
 - Use only specified battery type.
 - Do not disassemble, puncture, or short-circuit.
 - Keep away from heat, liquids, and impact.
 - Store in a cool, dry place.
 - Do not use if damaged.



[Transmitter Instructions]

Powering ON

- Warning -**
Operate with caution to avoid damage or injury.
- 1. Ensure the batteries are fully charged and properly installed.
- 2. Turn on the transmitter using the power switch. The G.LED should be solid green.
- 3. Always power on the transmitter before the receiver.

LED Indicator

The G-LED is used to indicate the functional status of the transmitter. The BATT LED is used to indicate the power status of the transmitter.

1. G-LED

- Flashing rapidly: The transmitter is in binding state.
- Flashing slowly: The transmitter voltage is low.
- Stay in gradual light: The transmitter is in idle alarm/sleep mode.
- Working in two-flash-one-off: The transmitter is in end point adjustment status.

2. BATT LED

- Solid on in Green: The battery power is high.
- Solid on in Yellow: The battery power is medium.
- Solid on in Red: The battery power is low.
- Flashing slowly in Red: The battery power is ultra low.

Note

- Before Power-On: Shows transmitter battery status.
- 3 Seconds After Power-On: Shows receiver battery status.
- LED Off: No return signal from receiver.
- LED Stays Fixed: Receiver is de-binding.

Binding

- Enter Binding Mode:** Hold BIND, power on the transmitter, and release when the G.LED flashes rapidly.
- Power on Receiver:** Turn on the receiver and wait for 1 second. If it fails to connect, it will automatically re-enter binding mode. Once connected, the receiver LED will stay solid to indicate success.
- Binding:** Both the receiver LED and G.LED will be solid.
- Verify:** Test the connection; repeat the process if needed.

Stick Calibration

To correct mechanical deviations in the throttle trigger, steering wheel, and CH5 self-centering knob, follow these steps:

- Enter Calibration Mode**
 - Turn the wheel fully right, push throttle forward, then power on the transmitter.
 - Three beeps confirm entry into calibration mode.
- Steering Wheel Calibration**
 - Turn the wheel fully right, then fully left.
 - Buzzer beeps twice to confirm completion.
- Throttle Trigger Calibration**
 - Push throttle fully forward, then fully backward.
 - Buzzer beeps once to confirm calibration.
- CH5 Self-Centering Knob Calibration**
 - Turn knob fully clockwise, then fully counterclockwise.
 - Long beep confirms completion.
- Save and Exit Calibration**
 - Press BIND to save. A long beep confirms success. If it fails, BIND won't respond—repeat the steps.

Powering Off

- Start by turning off the receiver.
 - Switch the transmitter's power to the OFF position.
- Warning -**
Always disconnect the receiver power before turning off the transmitter. Failure to do so may cause damage or serious injury.



TRANSMITTER USER MANUAL

THOR MG-6 / RD-6 2.4G Transmitter and Receiver

[THOR 191032]

[Transmitter System Functions]

Channel Description

Transmitter Channel Functions.

- **CH1 – Steering Wheel**
Clockwise: Steer right. / Counterclockwise: Steer left.
- **CH2 – Throttle Trigger**
Push forward: Drive forward. / Pull back: Brake or reverse.
- **CH3 – Button**
Press to cycle through lighting modes (e.g., off, low, high).
- **CH4 – Button**
Custom function (e.g., adjust servo speed).
- **CH5 – Self-Centering Knob**
Rotate for fine control; auto-returns to center.
- **CH6 – 3-Position Toggle Switch**
Switch between three preset modes or functions.

Channel Reverse

The motion direction of servos for the steering and throttle.

1. **Steering and Throttle Channels**
 - ST.REV: Reverses the steering channel.
 - TH.REV: Reverses the throttle channel.
2. **Setup**
 - Toggle to Upper Side: One beep indicates normal output.
 - Toggle to Lower Side: Two beeps indicate reversed output.

Trim Adjustment

ST.TRIM: Adjusts steering trim.

- **TH.TRIM:** Adjusts throttle trim.
 - **Center Position:** Trim = 0.
 - **Counterclockwise:** Increases trim (up to +120 μ s).
 - **Clockwise:** Decreases trim (down to -120 μ s).
- Note:** Trim direction is reversed if the channel is set to reverse.

D/R Adjustment

- **TST.D/R:** Adjusts steering sensitivity
- **TH.D/R:** Adjusts throttle sensitivity
- **Turn Counterclockwise:** Increase sensitivity
- **Turn Clockwise:** Decrease sensitivity
- **Range:** 0–100%
- **Setup:** Rotate the D/R knobs to adjust; buzzer beeps once at center position.

End Point Adjustment

Adjusts the maximum range (travel limits) for all channels.

1. **Steering (CH1) End Point Adjustment**
 - Enter Setting Mode:
Power on → Press BIND twice → G.LED flashes (two-on, one-off) → Buzzer beeps twice.
 - Set First Point:
Rotate the steering wheel to the desired position → Hold → Press BIND → Buzzer beeps cyclically.
 - Set Second Point:
Rotate to the opposite side → Hold → Press BIND → Buzzer stops.
 - Save and Exit:
Press BIND for 1 second → Long beep → G.LED stays solid.
2. **CH6 End Point Adjustment**
 - Enter Setting Mode:
Same as above
 - Set Points:
 1. First Position: Toggle CH6 → Rotate steering to desired point → Press BIND → Buzzer beeps twice.
 2. Second Position: Toggle CH6 → Rotate → Press BIND → Buzzer beeps once.
 3. Third Position: Toggle CH6 → Rotate → Press BIND → Buzzer turns off. (At least two positions required)
 - Save and Exit:
Press BIND for 1 second → Long beep → G.LED stays solid.

3. Other Channels End Point Adjustment

- Enter Setting Mode:
Same as above.
- Select Channel:
Move the control of the channel you wish to adjust.
- Set First Point:
Rotate to the desired limit → Hold → Press BIND → Buzzer beeps cyclically.
- Set Second Point:
Rotate to the opposite limit → Hold → Press BIND → Buzzer stops.
- Save and Exit:
Press BIND for 1 second → Long beep → G.LED stays solid.

Notes:

- If setup fails: Restart the process.
- Multiple channel setup: After adjusting one channel, you can directly adjust others.
- Throttle channel: Throttle output remains active during the adjustment of other channels.

Failsafe Function

The failsafe protects the model and operator if the receiver loses signal.

- **Default:**
Not set; all channels hold their last output when signal is lost.
- **Throttle (CH2):**
Always outputs no signal when failsafe is triggered, regardless of settings.
- **Other Channels:**
Hold last output unless a failsafe position is set on the transmitter.
- **How to Set Failsafe:**
 1. Power on the system normally.
 2. Move the control (stick, knob, switch) for the desired channel to the failsafe position.
 3. Press and hold the BIND button for 3 seconds until the buzzer gives a long beep (confirming the setting).

Note: Rebinding the receiver will reset failsafe settings to default.

Idle Alarm

The transmitter enters idle alarm if there is no operation for 10 minutes.

- **G.LED:** Gradual light
- **Buzzer:** Beeps 3 times cyclically
- **Exit:** Move any control to resume normal operation

Sleep Mode

After 2 minutes idle, the transmitter enters sleep mode:

- **G.LED:** Gradual light
- **Other LEDs, RF, and buzzer:** Turn off
- **Exit:** Power off, then restart the transmitter

Low Voltage Alarm

When battery voltage is low, the system triggers an alarm:

1. **< 4.2V (AA) / 7.0V (LiPo):**
 - G.LED flashes slowly
 - Buzzer beeps cyclically
2. **< 3.5V (ultra-low):**
 - Transmitting function disabled
 - G.LED shows gradual light
 - Avoid continued use under low voltage to prevent damage.

Data Reset

Resets end point values to **factory default**.

1. Press BIND and CH4 buttons together.
2. Power on the transmitter.
3. A long beep confirms the reset.

Note: Only resets end point values—not other settings.

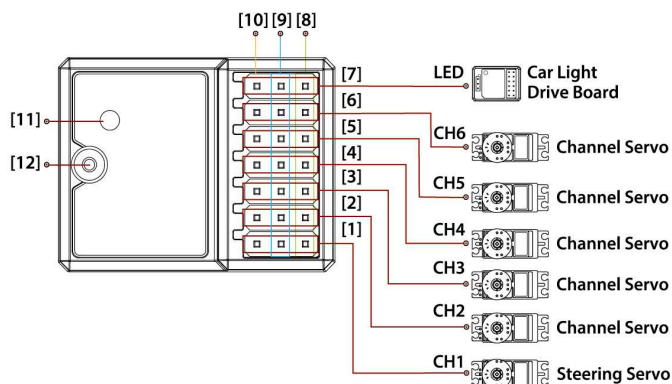


TRANSMITTER USER MANUAL

THOR MG-6 / RD-6 2.4G Transmitter and Receiver

[**THOR** 191032]

[Receiver Overview]



- | | |
|---------------------|--------------------------------------|
| [1] CH1 Interface | [7] LED Car Light Interface |
| [2] CH2 Interface | [8] "-" (CH Interface Cathode) |
| [3] CH3 Interface | [9] "+" (CH Interface Anode) |
| [4] CH4 Interface | [10] "S" (CH Interface Signal Pin) |
| [5] CH5 Interface | [11] LED |
| [6] CH6 Interface | [12] Antenna |

[Specifications]

- Product Model : RD-6
- Compatible Receivers : MG-6
- Number of Channels : 6
- Compatible Models : RC CARS
- RF : 2.4GHz ISM
- Maximum Power : <20 dBm
- 2.4GHz Protocol : 2A-BS
- Distance : ≥ 150m
- Resolution : 4096
- Input Power : 3.5 - 8.4V/dc
- Antennas : Single External Antenna
- Data Output : PWM
- Online Output : None
- Temperature Range : -100C ~ +600C
- Humidity Range : 20% ~ 95%
- Waterproof: PPX4
- Dimensions : 29*22*16.2mm
- Weight : 7.7g
- Certifications / NCC ID : CCAJ24LP5800T2

[Receiver Details]

- Receiver LED Status
Off: Receiver not powered / Solid ON: Receiver operating normally.
Fast Flashing: Binding mode.
Slow Flashing: Transmitter is off / Not yet bound / No signal received.
- Interface - All ports use 2.54mm, 3-pin standard connectors.
- Antenna - External antenna.
- ⚠ Caution - Do not pull on the antenna or tie it with servo cables.
- ⚠ Warning - Keep the antenna at least 1cm away from metal or conductive materials.

[Receiver and Servo Installation]

- Avoid placing the receiver near motors or other sources of electrical noise.
- Keep the antenna away from conductive materials. Maintain at least 1 cm of clearance for reliable performance.
- ⚠ Caution - Do not power on the receiver during installation to prevent damage. Connect the servos and car light drive board to the receiver according to the diagram provided.

[Receiver System Functions]

Attention

Safety Precautions

1. Ensure correct installation and calibration to avoid injury.
2. Verify proper power matching between the ESC, motor, and car frame.
3. Keep system temperature below 90°C (194°F) to prevent damage.
4. Always disconnect the receiver battery before turning off the transmitter to avoid loss of control.
5. Mount the receiver away from motors or high-interference devices.
6. Keep the receiver antenna at least 1cm away from metal or carbon materials.
7. Do not power on the receiver during setup to prevent accidental activation.

Binding Instruction

If rebinding the receiver and transmitter, refer to **Binding** for details.

Failsafe

The receiver supports the failsafe function, which needs to be set on the



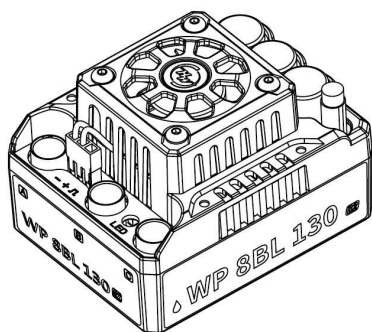
191032 [MG-6 2.4G Transmitter w/Receiver]
191033 [RD-6 Receiver (Water Proof IPX4)]



G2 ESC USER MANUAL

THOR 130A Waterproof G2 ESC [Brushless Motor]

[THOR 191034]



• Disclaimer

Thank You for Your Purchase!
Please read the following statement carefully before using this product. By proceeding with use, you are deemed to have accepted all terms and conditions outlined below. For your safety and to ensure proper operation, follow the instructions in this manual closely during installation. Any unauthorized modifications may result in personal injury or damage to the product. We reserve the right to update the product's design and performance without prior notice.

• Warnings

Read all manuals and check your gearing and installation.
Use a quality soldering station to ensure secure connections and avoid short circuits.
Follow voltage, current, and temperature guidelines—even with built-in protections.
Always disconnect the battery after use to prevent full discharge and ESC damage (not covered under warranty).

[Features]

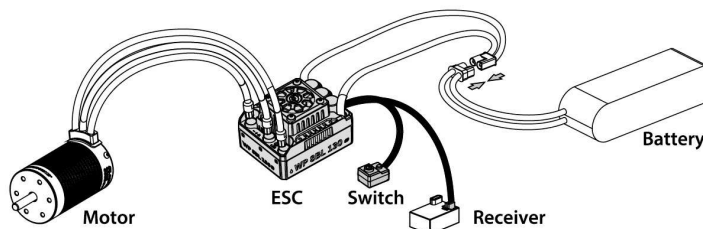
- Excellent waterproof and dustproof design for reliable use in all weather and harsh environments.
- Smart freewheeling technology enhances efficiency, reduces temperature, and improves ESC stability.
- Built-in powerful switch-mode BEC with 6V/7.4V adjustment supports high-voltage servos.
- Multiple protection features: low voltage, overheat, signal loss, current, and capacitor protection.
- Dedicated programming port allows easy setup without unplugging the throttle cable.

[Specifications]

- **Continuous Current :** 130A
- **Motor Type :** Sensorless / Sensored Brushless Motor (Sensor mode only in sensored setup)
- **Applications :** 1/8 Buggy, On-Road, 1/10 Monster Truck
- **Motor Limit :** 3S LiPo: KV ≤ 4300
4S LiPo: KV ≤ 3000
Motor Size: 4268 / 4274
- **Lipo Cells :** 3–4S LiPo
- **BEC Output :** 6V / 6A
- **Size / Weight :** 60mm(L) x 48mm(W) x 40.4mm(H)
- **Weight (w/wire&connectors) :** 190g
- **Programming Method :** SET button, LED program box

[Connections]

- **Motor Connection :** No wire order required for sensorless brushless motors. Swap any two wires to reverse direction.
- **Receiver Connection :** Connect the ESC throttle cable to the receiver's throttle channel. Do **not** add extra power to the receiver—disconnect the red wire if external power is needed.
- **Battery Connection :** Match ESC and battery polarity (+ to +, – to –). Reversed connections will damage the ESC and are not covered by warranty.



[ESC Setup]

1. ESC Throttle Range Calibration Process :

Calibration must be performed during first use or after installing a new radio or receiver. Failure to calibrate may result in improper ESC operation.

We strongly recommend enabling the transmitter's **Fail Safe** function.

Set the throttle channel's no-signal protection (F/S) to **OFF** or to the **Neutral Position** to ensure the motor stops if signal is lost.

a) Transmitter Setup

Set throttle channel parameters (D/R, EPA, ATL) to 100%, and TRIM to 0. (Skip if using default settings. For non-LCD transmitters, turn knobs to max or neutral.)

b) Enter Calibration Mode

With ESC off, hold the SET button and power on the ESC. When the RED LED flashes and motor beeps, release SET immediately. (Holding longer than 3 seconds enters programming mode - restart if needed.)

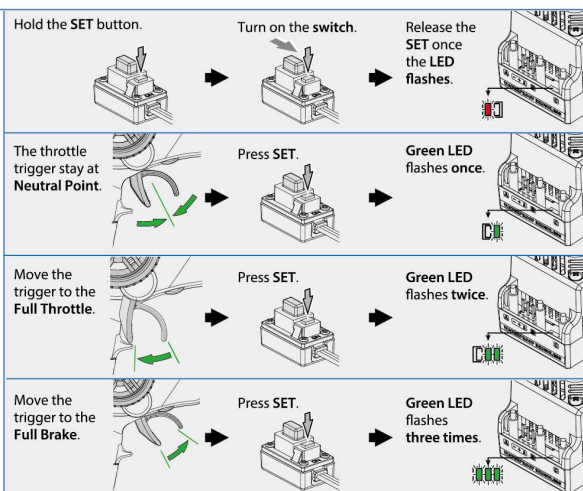
Note: Motor beeps may be faint; check LED status.

c) Set Throttle RangeNeutral

- Leave trigger at center, press SET - GREEN LED flashes once, 1 beep.
- Full Throttle: Pull trigger fully, press SET - GREEN LED flashes twice, 2 beeps.
- Full Brake: Push trigger fully, press SET - GREEN LED flashes three times, 3 beeps.

d) Calibration Complete

ESC is now ready for normal operation.





G2 ESC USER MANUAL

THOR 130A Waterproof G2 ESC [Brushless Motor]

[THOR 191034]

[ESC Setup]

2. Programmable Items (The highlighted options are the default settings of the system)

Parameter List of WP 8BL130 RTR G2 :

Item	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8	Option 9
① Running Mode	F/ with brake	F/R with Brake	F/ with reverse						
② Low Voltage Cut-off	Disabled	2.6V/Cell	2.8V/Cell	3.0V/Cell	3.2V/Cell	3.4V/Cell			
③ Punch	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9
④ Drag Brake Force	0%	5%	10%	20%	40%	60%	80%		100%
⑤ Max. Brake Force*	25%	50%	75%	100%	Disabled				

① Running Mode

- **Forward with Brake:** Racing mode, no reverse.
- **Forward/Reverse with Brake:** Reverse enabled only after full stop to prevent accidental reversing.
- **Forward with Reverse:** Immediate reverse when throttle is pushed back.

② Low Voltage Cut-off

- Protects LiPo batteries from over-discharge.
- When voltage drops below the set level, power reduces and shuts off after a few seconds.
- Red LED flashes in pattern: ☆ — , ☆ — , ☆ —
- For NiMH batteries, set this to **Disabled**.

③ Punch

- Controls acceleration strength (Level 1–9). Higher levels = faster acceleration, but it also means high current (high temperature)
- Lower level can help with low traction situations, or stuttering when the throttle is aggressively applied.

④ Drag Brake Force

- Refers to the brake force generated by the motor when the throttle trigger returns to neutral position.
- Typically drag brake will be 0. Drag brake can add some heat so use only as needed.

⑤ Max. Brake Force

- Sets braking power when full brake is applied.
- Higher values stop faster but may damage gears.

Note:
Default reverse force is 50% for 10BL series ; 25% for 8BL, 12BL, and 16BL series.

3. ESC Programming

[1] Program your ESC with the SET Button

Turn on transmitter with ESC off.

Hold SET, then power on ESC.

RED LED flashing.

RED LED flashes indicate the selected value.

[Enter Items]

Green LED flashes 1 time. Release SET. No 1. Running mode Press SET.

Green LED flashes 2 time. Release SET. No 2. Drag Brke Force Press SET.

Green LED flashes 3 time. Release SET. No 3. Low-Voltage Cutoff Press SET.

Green LED flashes 4 time. Release SET. No 4. Forward/Reverse with Brake Press SET.

Green LED flashes 5 time. Release SET. No 5. Drag Brake Force Press SET.

Green LED flashes 6 time. Release SET. No 6. Max. Brake Force Press SET.

Green LED flashes 7 time. Release SET. No 7. Drag Brake Force Press SET.

Green LED flashes 8 time. Release SET. No 8. Drag Brake Force Press SET.

Green LED flashes 9 time. Release SET. No 9. Drag Brake Force Press SET.

Green LED flashes 10 time. Release SET. No 10. Drag Brake Force Press SET.

Green LED flashes 11 time. Release SET. No 11. Drag Brake Force Press SET.

Green LED flashes 12 time. Release SET. No 12. Drag Brake Force Press SET.

Green LED flashes 13 time. Release SET. No 13. Drag Brake Force Press SET.

Green LED flashes 14 time. Release SET. No 14. Drag Brake Force Press SET.

Green LED flashes 15 time. Release SET. No 15. Drag Brake Force Press SET.

Green LED flashes 16 time. Release SET. No 16. Drag Brake Force Press SET.

Green LED flashes 17 time. Release SET. No 17. Drag Brake Force Press SET.

Green LED flashes 18 time. Release SET. No 18. Drag Brake Force Press SET.

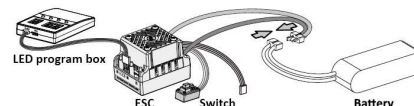
Green LED flashes 19 time. Release SET. No 19. Drag Brake Force Press SET.

Green LED flashes 20 time. Release SET. No 20. Drag Brake Force Press SET.

Note:
During programming, the motor beeps while the RED LED flashes.
A long flash and long beep ("B—") represent option 5.
Long + 1 short flash ("B—B—") = option 6
Long + 2 short flashes ("B—BB—") = option 7
Long + 3 short flashes ("B—BBB—") = option 8

[2] Program your ESC with a LED program box

- Power off the ESC.
- Use a JR plug cable to connect the ESC's 3-pin "-" "+" port to the matching "-" "+" port on the top-right of the LED program box.
- Power on the ESC.
- After a few seconds, ESC parameters will appear on the program box.
- Use ITEM and VALUE buttons to select settings.
- Press OK to save changes to the ESC.



Caution: The program box supports multiple ESC models, so its labels may not match your ESC's parameters exactly. Refer to your ESC's manual for correct settings.
Left window = parameter item number
Right window = selected value number

[Factory Reset]

Using the SET Button

- Turn on the transmitter (throttle in neutral).
- Power on the ESC (LED off).
- Hold the SET button for over 3 seconds.
- RED & GREEN LEDs flash = reset successful.
- Power cycle the ESC to apply defaults.

Using the LED Program Box

- Connect the box to the ESC.
- Press RESET, then OK to restore factory settings.

[Trouble Shooting]

- Issue : Power on failure; No LED, no fan, motor doesn't start.

Possible Causes : 1. No battery voltage to ESC / 2. Damaged switch

Solutions : 1. Check battery connection and plug soldering / 2. Replace switch

- Issue : Beep-beep warning tone with flashing red light.

Possible Causes : Battery voltage out of range

Solutions : Check or replace battery

- Issue : Red LED flashes quickly after power-on

Possible Causes : 1. Throttle signal not detected / 2. Throttle not calibrated

Solutions : 1. Check wire connection and transmittre receiver / 2. Recalibrate throttle

- Issue : Car moves in reverse when throttle is forward.

Possible Causes : Motor direction is reversed

Solutions : Swap any two motor wires (A, B, or C)

- Issue : Motor suddenly stops or weakens

Possible Causes : 1. Signal interference / 2. Low voltage protection / 3. Overheat protection

Solutions : 1. Check receiver and transmitter battery / 2. Replace battery if red LED flashes / 3. If green LED flashes, reduce load and continue

- Issue : Motor stutters or doesn't start

Possible Causes : 1. Poor ESC-motor connection / 2. ESC fault (e.g., burned MOSFET)

Solutions : 1. Inspect and re-solder connections / 2. Contact dealer

- Issue : No reverse, only forward works

Possible Causes : 1. Throttle neutral position incorrect / 2. Running Mode misconfigured / 3. ESC is damaged

Solutions : 1. Recalibrate ESC / 2. Check Running Mode setting / 3. Contact distributor

- Issue : LED program card shows "--" or LCD shows "Connecting ESC"

Possible Causes : Incorrect port connection

Solutions : Use programming port, not throttle cable.

- Issue : Throttle travel setup fails

Possible Causes : ESC doesn't receive correct throttle signal

Solutions : 1. Confirm throttle cable connection and port / 2. Recheck channel and rebind transmitter/receiver



SHOCK ABSORBERS / DIFFERENTIALS

560022 - 1/8 EP RACING BUGGY RTR [3S-4S]

**561601
FRONT
SHOCK
ABSORBERS**



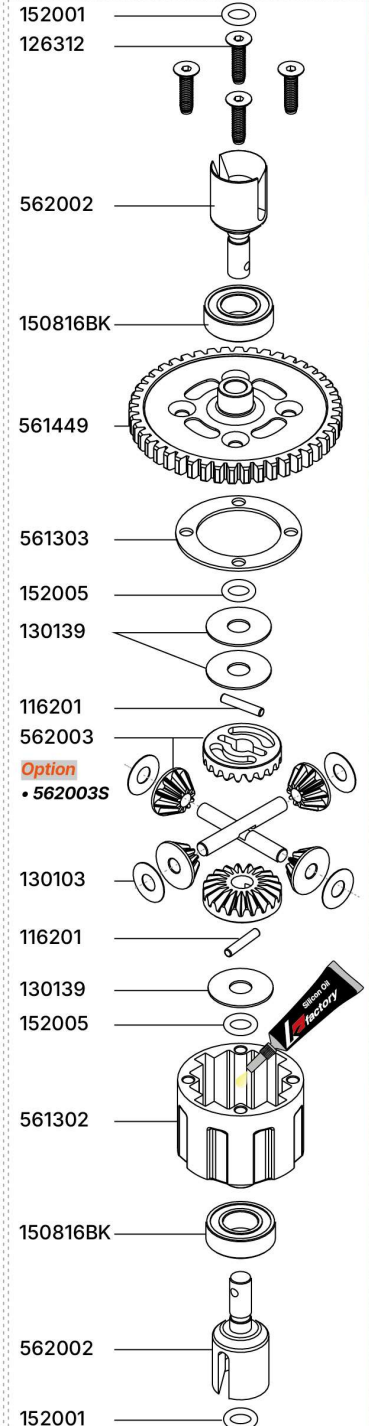
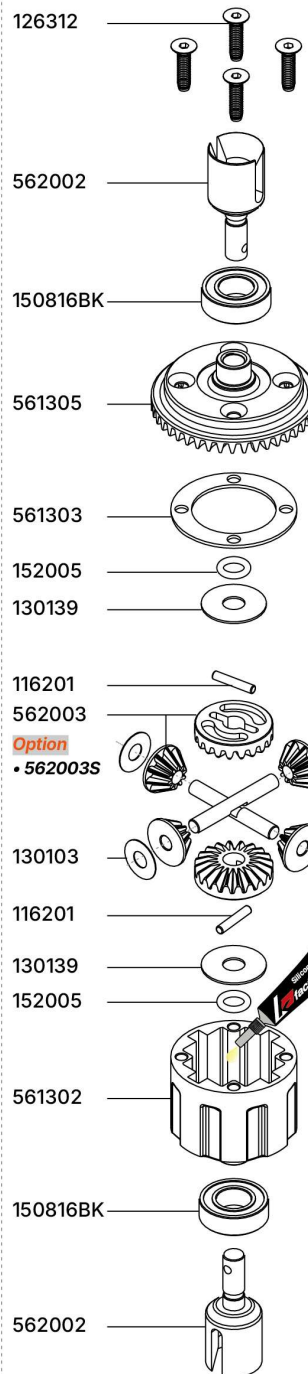
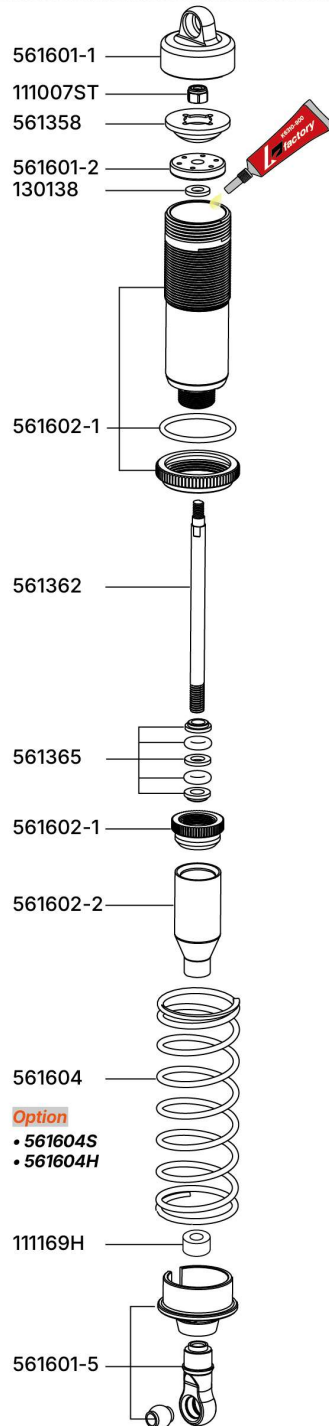
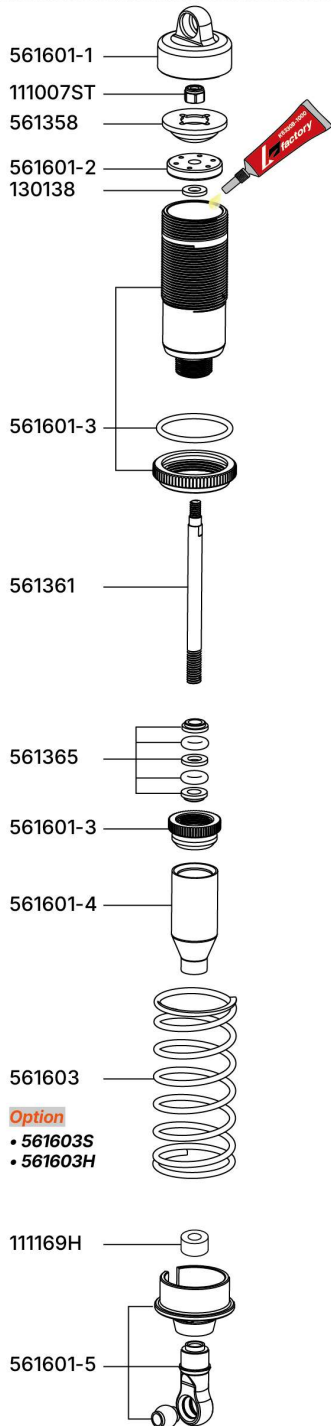
**561602
REAR
SHOCK
ABSORBERS**

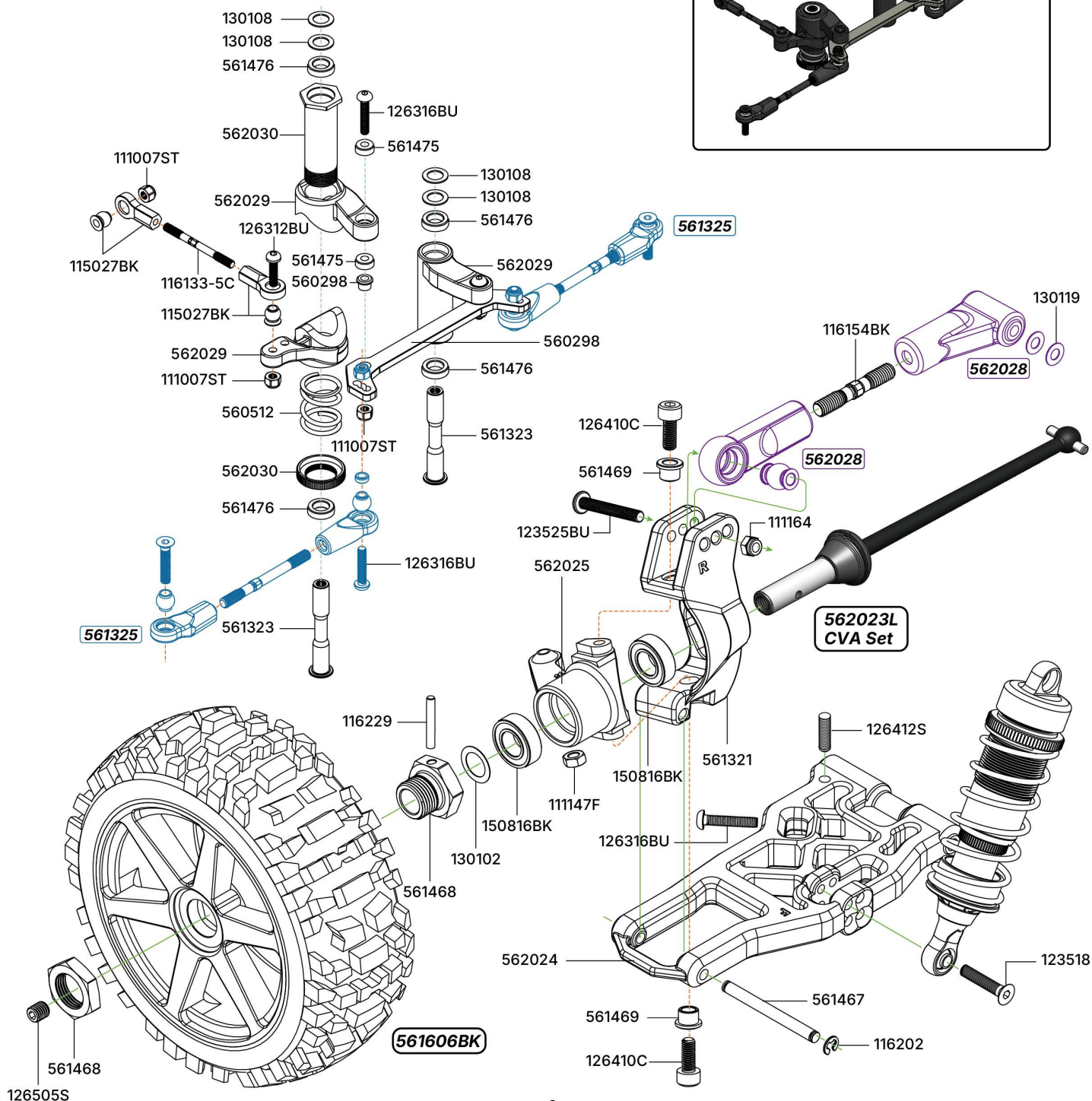


**561605
FRONT/REAR
DIFFERENTIAL**



**561459
CENTER
DIFFERENTIAL**

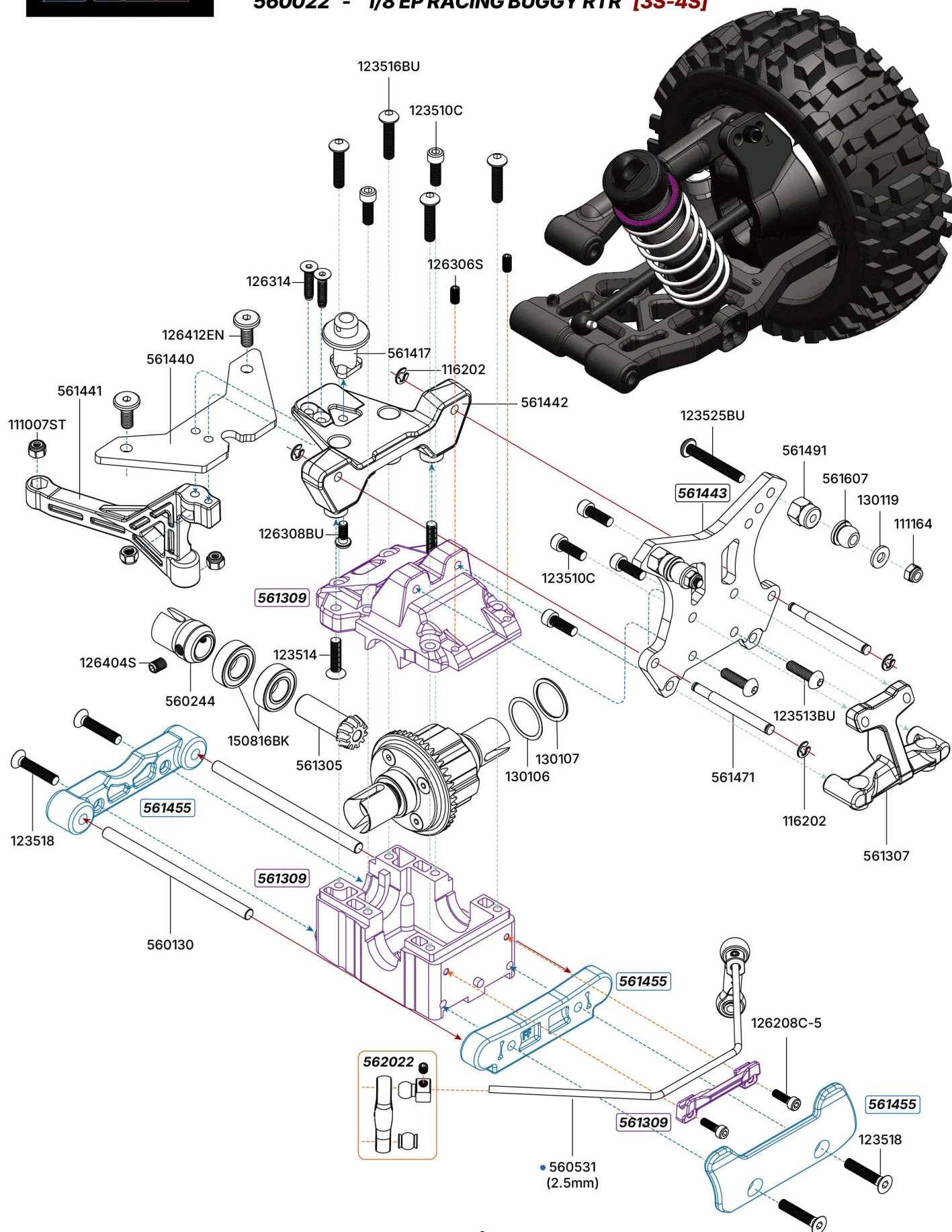


**560022 - 1/8 EP RACING BUGGY RTR [3S-4S]**



FRONT STRUCTURE

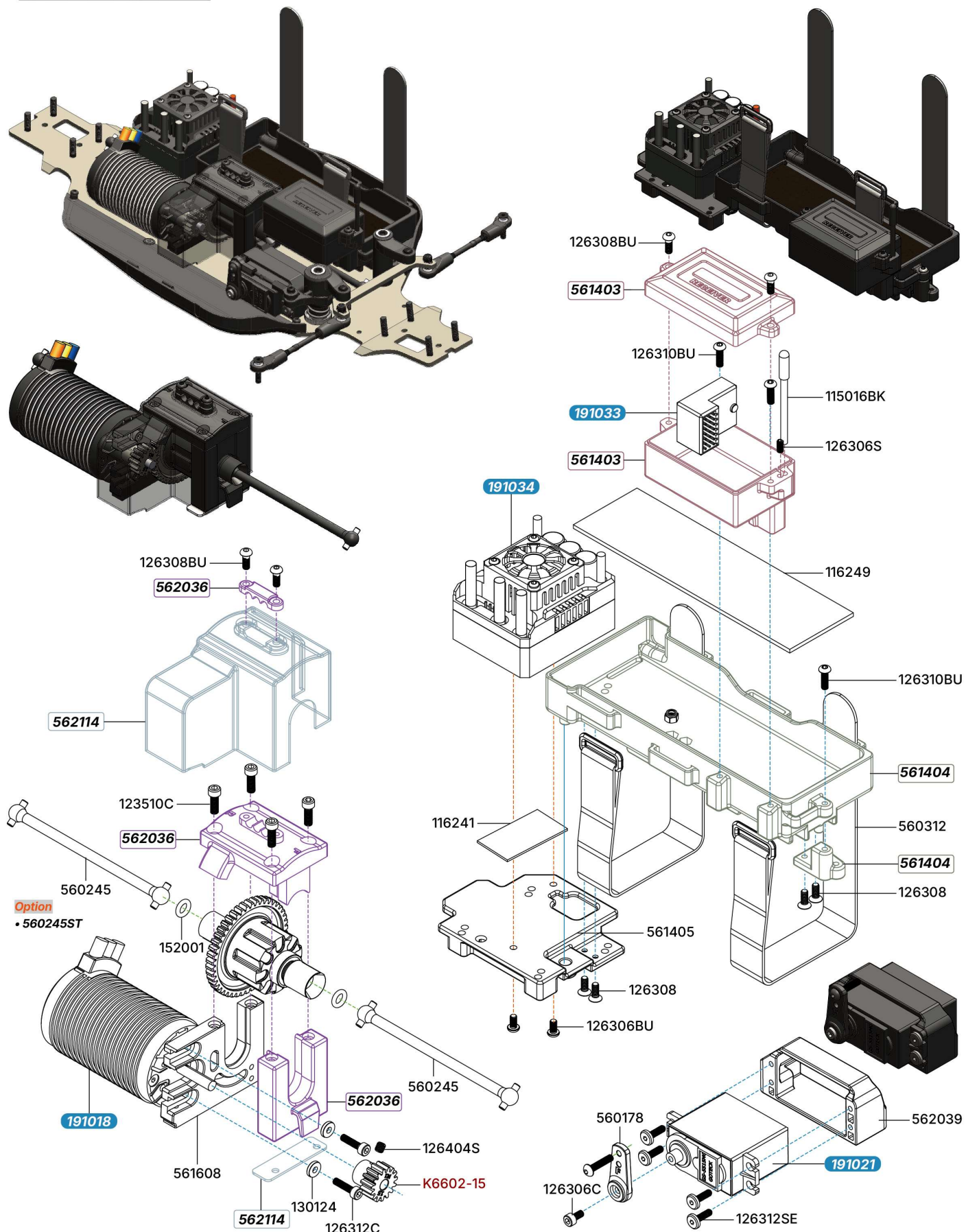
560022 - 1/8 EP RACING BUGGY RTR [3S-4S]





CENTER STRUCTURE

560022 - 1/8 EP RACING BUGGY RTR [3S-4S]





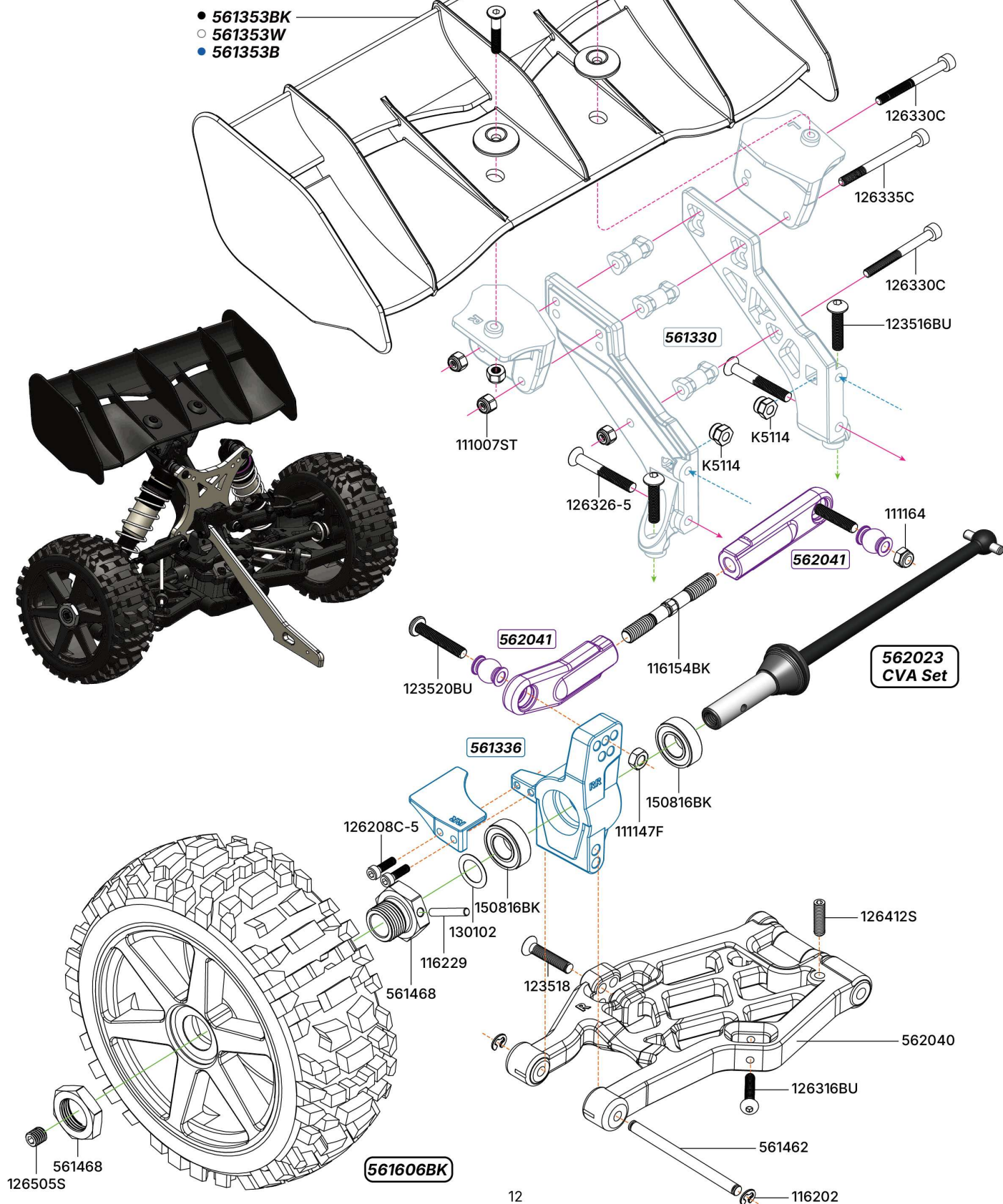
This diagram illustrates the assembly of a robotic arm, showing the motor, gearbox, and various structural components. The parts are labeled with their respective part numbers:

- 126416**: Mounting bracket/bottom plate.
- 126412**: Small cylindrical fasteners.
- 126310**: Small cylindrical fasteners.
- 126306**: Small cylindrical fastener.
- 111007F**: Small cylindrical fastener.
- 126308**: Main arm body.
- 126308BU**: Motor/gearbox assembly.
- 562078**: End effector/ gripper.
- 561609**: Mounting bracket/bottom plate.



REAR STRUCTURE

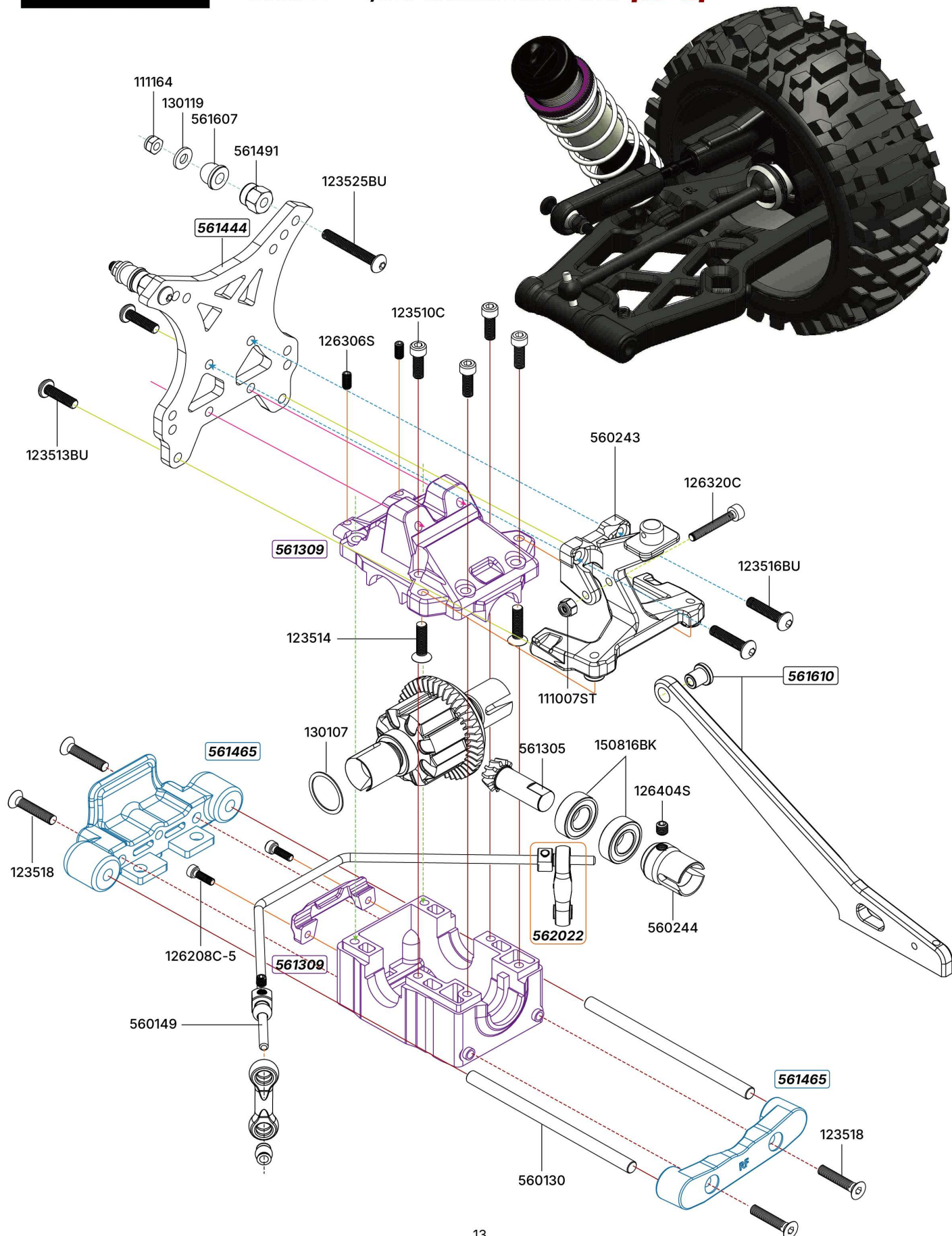
560022 - 1/8 EP RACING BUGGY RTR [3S-4S]





REAR STRUCTURE

560022 - 1/8 EP RACING BUGGY RTR [3S-4S]





BODY SHIELD

560022 - 1/8 EP RACING BUGGY RTR [3S-4S]



111170



111166

- 561611P
- 561611B
- 561611C

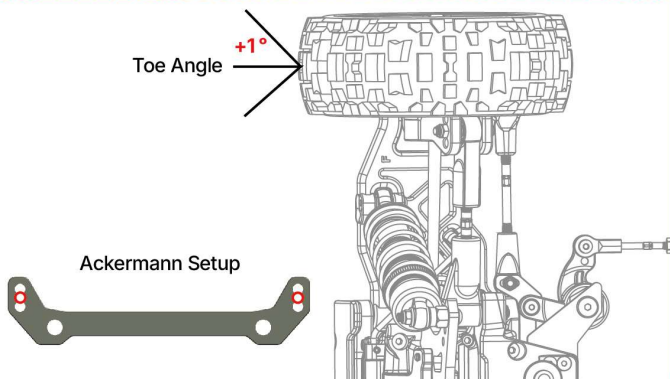
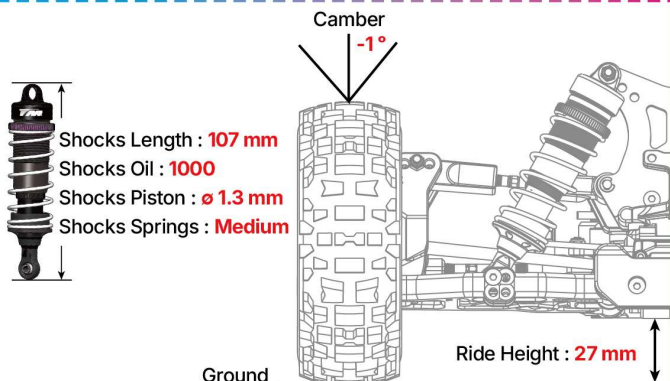
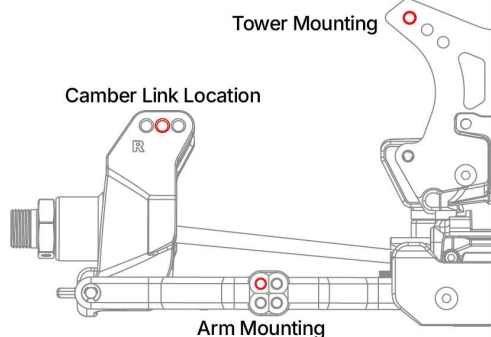




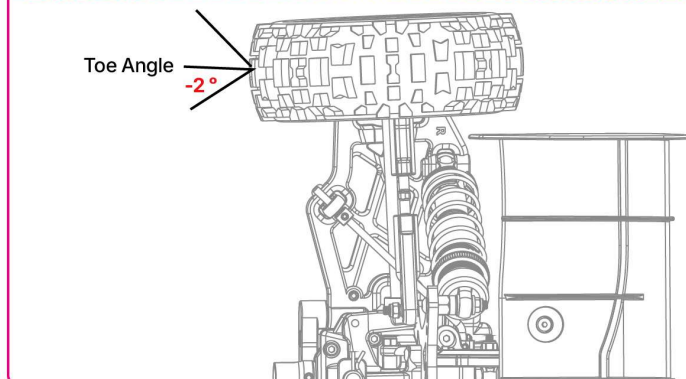
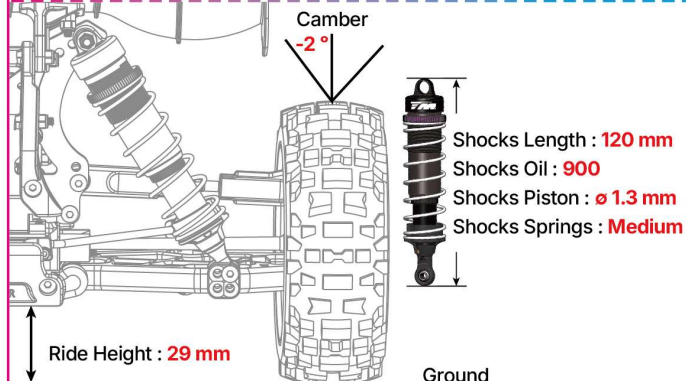
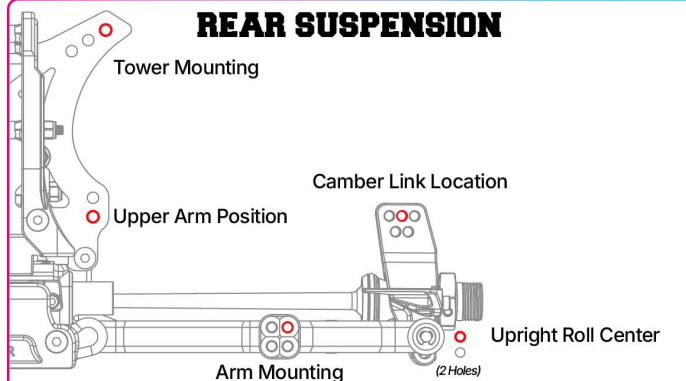
FACTORY SETUP SHEET

560022 - 1/8 EP RACING BUGGY RTR [3S-4S]

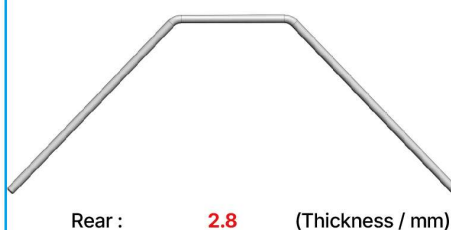
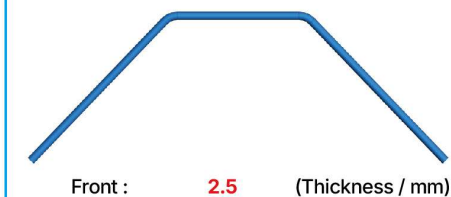
[FRONT SUSPENSION]



REAR SUSPENSION



ANTI-ROLL BAR



DIFFERENTIALS OIL



ELECTRONICS

Motor : **2500 KV**
 ESC : **130 A**
 Servo : **16 KG**
 Pinion Gear : **15 T**
 Spur Gear : **46 T**

TIRES

Front	Rear
Type :	Type :
Insert :	Insert :
Wheel :	Wheel :

COMMENTS

Race Time :
 Lap :
 Best Lap Time :
 Position :
 Notes :



PARTS LIST

560022 - 1/8 EP RACING BUGGY RTR [3S-4S]

No.	Description	No.	Description	No.	Description
111007ST	3mm Steel Locknut (10)	130106	13.2x15.9x0.1mm Shim (6)	561462	Rear Lower Outer Hinge Pin(2)
111147F	3.5mm Steel Flat Nut (6)	130107	13.2x15.9x0.5mm Shim (6)	561465	Rear Arm Mount
111164	3.5mm Lock Nut (10)	130108	6.05x9.5x0.5mm Shim(10)	561467	Front Lower Outer Hinge Pin(2)
111166	R8 Angled Body Clip (10)	130119	3.6x8x1mm Washer (10)	561468	Wheel Lock Nut (4)
111169H	4mm Shock Shaft Bump Stop -Hard (4)	130124	3x7.5x1.5mm Washer (10)	561469	Steering Block Carrier Bushing (4)
111170	Body Clip Retainer (4)	130138	3.5x7x1 Washer (10)	561471	Front Upper Inner Hinge Pin(2)
115016BK	Antenna Rod (2)-Black 1134-1	130139	5.2x15x0.5 Washer (10)	561475	3x7x3mm Steel Bushing(4)
115027BK	5.8mm Single Flanged Steel Ball & Ball End (6) Black	150816BK	8x16x5mm Bearing-Black	561476	6x10x3mm Steel Bushing(4)
116133-5C	3x35mm CR Adjustable Rod (2)	152001	O-RING P5(10)	561491	Shock Cap Bushing (4)
116154BK	5x40mm Hardened Adjustable Rod -BK (2)	152005	O-Ring 4.7X1.4mm(10)	561601	16mm Alum. Shock Absorber Set -Front (2)
116201	2x11mm Pin (10)	191018	THOR 4068 Brushless Motor 2500KV (14.8V)	561601-1	Alum. Shock Upper Caps (2)
116202	E-clip 2.5 (10)	191021	S1601 Servo 16KG	561601-2	Shock Piston (4)
116229	2.5x16.8mm Pin (10)	191032	THOR MG-6 2.4G Transmitter w/Receiver	561601-3	Alum. Shock Body - Front (2)
116241	3M Double Side Tape 4x2.2cm	191033	THOR RD-6 Receiver (Water Proof IPX4)	561601-4	Shock Absorber Dust Boots - Front (2)
116249	EVA Tape 4x14cm	191034	THOR WP-8130 G2 ESC for Brushless Motor (14.8V)(3-4S)	561601-5	Shock lower Joint (2)
123510C	3.5x10mm Steel Cap Screw (6)	560130	ST Steel 4x68.8mm Hinge Pin (2)	561602	16mm Alum. Shock Absorber Set -Rear (2)
123513BU	3.5x13mm Steel B.H. Screw (6)	560149	Rear Anti-Roll Bar 2.8mm	561602-1	Alum. Shock Body - Rear (2)
123514	3.5x14mm Steel F.H. Screw (6)	560178	Servo Arm (Futaba) (2)	561602-2	Shock Absorber Dust Boots - Rear (2)
123516BU	3.5x16mm Steel B.H. Screw (6)	560243	Rear Body Mount	561603	16mm Front Shock Spring (2)
123518	3.5x18mm Steel F.H. Screw (6)	560244	ST Steel Small Bevel Gear Outdrive (2)	561604	16mm Rear Shock Spring (2)
123520BU	3.5x20mm Steel B.H. Screw (6)	560245	Hard Coated Alum. 7075 Center Drive Shaft (2)	561605	F/R Complete Differential Set
123525BU	3.5x25mm Steel B.H. Screw (6)	560512	Servo Saver Spring (K=2.0) Black	561606BK	Pre-mounted Block Tires -6 Spokes Black (2)
126208C-5	2.5x8mm Steel Cap Screw (6)	560531	Front Anti-Roll Bar 2.5mm Blue	561607	Shock Pivot Ball 7.5mm (4)
126306	3x6mm Steel F.H. Screw (6)	561302	Diff Case Set	561608	Motor Mount-Quick Release- G2
126306BU	3x6mm Steel B.H. Screw (6)	561303	Diff Case Gasket (4)	561609	B8ERII Chassis
126306C	3x6mm Cap Screw (6)	561305	Bevel Gear 43T&11T	561610	B8ERII Rear Stiffener
126306S	3x6mm Set Screw (6)	561307	Front Shock Tower Stiffener	561611B	B8ERII Body-Blue
126308	3x8mm Steel F.H. Screw (6)	561309	Front & Rear Diff Gear Box (1 set)	561611C	B8ERII Body-Clear
126308BU	3x8mm Steel B.H. Screw (6)	561321	Caster Block (1 pair)	561611P	B8ERII Body-Purple/Pink
126310	3x10mm Steel F.H. Screw (6)	561323	Servo Saver Post (2)	562002	F/R Differential Outdrive (2)
126310BU	3x10mm B.H. Screw (6)	561325	Steering Rod Nylon Ball & Ball End Set	562003	Differential Bevel Gear Set (for 1 diff)
126312	3x12mm Steel F.H. Screw (6)	561330	Wing Mount & Holding Set	562022	Anti-Roll Bar Linkage Joints (2)
126312BU	3x12mm B.H. Screw (6)	561336	Rear Hub Carrier & Mud Sweeper (1 pair)	562023	CVA Joints (2)
126312C	3x12mm Cap Screw (6)	561353BK	Rear Wing-Black	562023L	CVA Joints +1mm (2)
126312SE	3x12mm Steel Flat Round Servo Mount Screw (6)	561358	Shock Bladder 16mm	562024	Front Lower Arm(2)
126314	3x14mm Steel F.H. Screw (6)	561361	ST Steel 4x55mm Front Shock Shaft (2)	562025	Steering Block (2)
126316BU	3x16mm B.H. Screw(10)	561362	ST Steel 4x65mm Rear Shock Shaft (2)	562028	Front Upper Arm Set (2)
126320C	3x20mm Cap Screw (6)	561365	Shock O-Ring & Washer (4pcs/each)	562029	Servo Saver Nylon Parts
126326-5	3.5x26mm Steel F.H. Screw (6)	561403	Receiver Box	562030	Servo Saver Spring Holder
126330C	3x30mm Cap Screw (6)	561404	Battery Box	562036	Center Differential Mount
126335C	3x35mm Cap Screw (6)	561405	ESC Mount	562039	Servo Mount
126404S	4x4mm Set Screw (6)	561417	Front Body Post Set	562040	Rear Lower Arm(2)
126410C	4x10mm Steel Cap Screw(6)	561440	Triangle Plate (Front)	562041	Rear Upper Arm Set (2)
126412	4x12mm Steel F.H. Screw (6)	561441	Front Stiffener	562078	Side Guard
126412EN	4mm Steel Flat Round Engine Mount Screw (6)	561442	Front Upper Arm Mount	562114	Gear Protection Cover
126412S	4x12mm Set Screw (6)	561443	Front Shock Tower	K5114	K Factory Alum. 3.5mm Locknut (6)
126416	4x16mm Steel F.H. Screw (6)	561444	Rear Shock Tower	K6310-900	K Factory Silicone Oil 70ml/2.5oz #900
126505S	M5x5mm Set Screw(6)	561449	46T Main Gear	K6330-7000	K Factory Silicone Oil 40ml #7000
130102	8.1x12x0.2mm Shim (10)	561455	Front Lower Arm Mount	K6330B-1000	K Factory Silicone Oil 70ml #1000
130103	4.2x10x0.2mm Shim (6)	561459	Middle Differential Set	K6602-15	M1.0 Pinion Gear for 5mm Shaft 15T



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- **NO.560022 INSTRUCTION / SETUP MANUAL** -

TEAMMAGIC