



TEAM MAGIC

1/8th UCP RACING PICKUP TRUCK

WWW.TEAMMAGIC.COM.TW



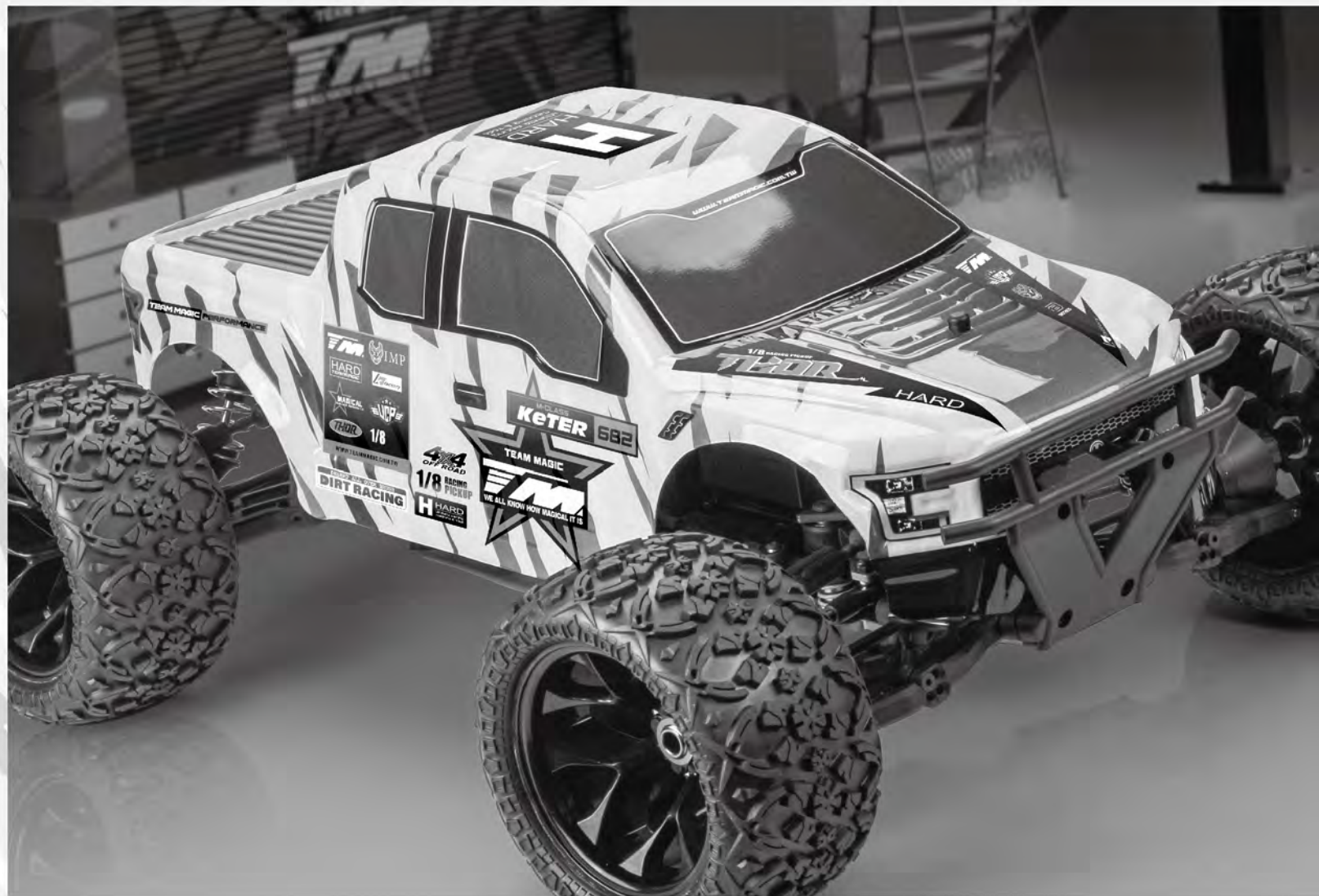
560018

1/8th UCP Racing Pickup

80 km/h
MAX SPEED

Specifications

- Length : 500mm
- Width : 413mm
- Height : 220mm
- Wheelbase : 372mm
- Ground Clearance Front : 40mm
- Ground Clearance Rear : 50mm
- Weight : 3950g





560018-1/8 UCP RACING PICKUP

THANK YOU FOR CHOOSING THE TEAM MAGIC 1/8 UCP RACING PICKUP.

The 1/8 UCP RACING PICKUP (RTR), which is assembled with the top-quality parts and tough structures to present the performance and durability. Before you start, we suggest reading through the instruction manual first. Hopes you have fun and enjoy our product.

GENERAL OPERATION TIPS

- Read the instruction manual before operating.
- Clear a work area and try to work on a light color towel to avoid missing dropped parts.
- Do not over-tighten fasteners. Over-tightening screws or nuts may be causing damage to parts.
- Please drive it slowly and feel the resistance force's feedback.
- If parts do not fit together, please double-check if it is correct with the assemble position or the combination parts.
- If you cannot figure out what is wrong with your device, please contact with dealers, the distributor, or Team Magic directly.
- Using the right tools makes assembly or fixing much easy.

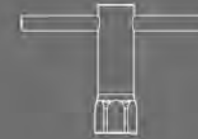
Choose **A GOOD DEALER** is extremely important!!

A good hobby dealer helps you to deal with most problems you might encounter.

THE 1/8 UCP RACING PICKUP INCLUDED TOOL AND REQUIRED ITEMS

1 INCLUDED TOOLS

- 17mm Cross Wrench



2 REQUIRED ITEMS

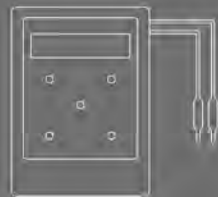
- AA Battery or Rechargeable x4



- 7.4v Rechargeable Battery Pack X 2



- Battery Pack charger

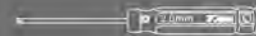


3 HELPFUL EQUIPMENTS

- TM RC Hex Wrench 1.5mm #117057-1



- TM RC Hex Wrench 2.0mm #117057-2



- TM RC Hex Wrench 2.5mm #117057-3



- TM RC Hex Wrench 3.0mm #117057-4



- TM HC Nut Driver 5.5mm #117010 (for 3mm nut)



- TM HC Nut Driver 7.0mm #117011 (for 7mm nut)



- Circlip Plier #117032



- Needlenose Pliers



- TM HC Philips Screw Driver 4.0mm #117024



- Hobby Knife



- Curved Scissors #116006

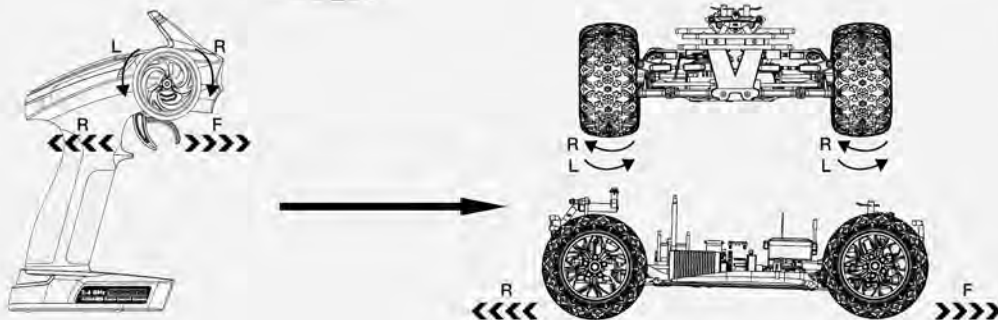


- Body Reamer #117030





★ Transmitter Overview ★



★ Basic Operations ★

► Install the Battery

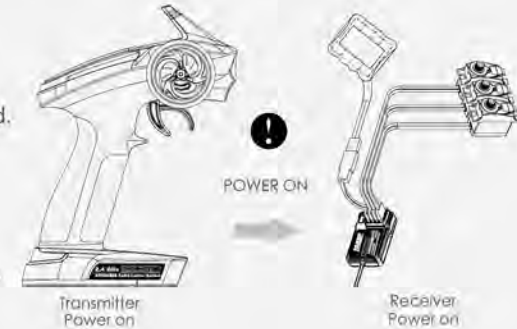
1. Remove the battery compartment cover.
2. Insert 4 fully-charged AA batteries into the compartment.



► Power On

Please follow the following steps:

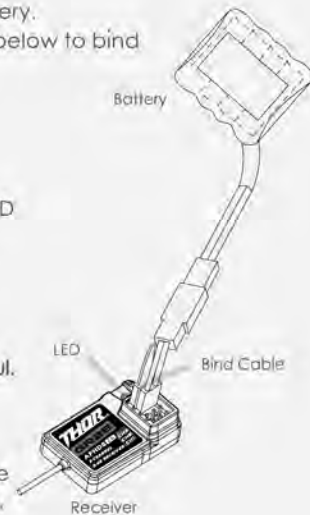
1. Connect everything.
 - Make sure that the batteries are fully charged.
 - Make sure the receiver is off.
2. Move the transmitters power switch to its on position.
3. Connect the power supply to the receiver. The receivers LED should be solid to indicate that it is connected.



► Binding

The transmitter and receiver have been pre-bound before delivery. If you are using another transmitter or receiver, follow the steps below to bind the transmitter and receiver:

1. Ensure you are using the AFHDS 2A protocol.
2. Insert the transmitters batteries.
3. Connect the bind cable to the receivers B/CH3 port.
4. Connect power to the reciever's VCC port. The receiver's LED should begin to flash indicating that it has entered bind mode.
5. On the transmitter:
 - Hold the bind button and toggle the transmitters power switch to its on position.
 - If the receiver's LED stops flashing then binding has been successful.
6. Let go of the transmitter's bind button and remove the bind and power cable from the receiver.
7. Reconnect power to the receivers VCC port and test to make sure everything is working as expected, if not, repeat the steps above.



► Power Off

1. Disconnect the receiver power.
2. Hold the transmitter's power buttons to turn off the transmitter. Make sure to disconnect the receiver's power before turning off the transmitter. If you turn off the transmitter forcefully (by removing the battery), it may lead to unintended operation and cause an accident.



★ WP-8BL100-RTR / WP-8BL150 RTR User Manual ★



Thanks for purchasing our Electronic Speed Controller (ESC). The power system for RC model can be very dangerous, so 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. Any claims arising from the operating, failure of malfunctioning etc. will be denied. We assume no liability for personal injury, consequential damages resulting from our product or our workmanship.

Warnings

- Ensure all wires and connections are well insulated before connecting the ESC to related devices.
- Ensure all devices are well connected to prevent poor connection that may cause your vehicle out of control or other unpredictable issues.
- Read through the manuals of all power devices and chassis and ensure the power configuration is rational before using this unit.
- Please use a soldering iron with the power of at least 60W to solder all input/output wires and connectors.
- Do not hold the vehicle in the air and rev it up to full throttle, as rubber tires can expand to extremely large size until they explode and cause serious injury.
- Stop using the ESC when its casing temperature exceeds 90 °C / 194 °F to avoid the ESC or the motor getting damaged even destroyed. (We recommend setting the "ESC Thermal Protection" to 105 °C/ 221 °F; this refers to the internal temperature of the ESC.)
- We recommend removing the cooling fan from ESC before exposing vehicle to liquids, and fully dry it right after use.
- Always disconnect batteries after use, as the ESC will continue to consume the current power even if the ESC is turned off. (A long-time connecting will cause batteries discharge completely and break the ESC.)

Features

- Completely water-proof and dust-proof. The ESC works properly even under water. (Please remove the cooling fan when running car in water, and after running, please make the ESC clean and then dry it to avoid the oxidation of copper connectors.)
- External Programming Port (EPP), easy to connect with program card, and also works as power port for cooling fan.
- Excellent start-up, acceleration and linearity features, suitable for truggy (especially short course trucks) and buggy.
- The built-in switching mode BEC has powerful output to supply all electronic equipments.
- There is a mounting stand for installing the ESC on chassis easily and firmly.
- Proportional ABS brake function with 5 steps of maximum brake force adjustment, 8 steps of drag-brake force adjustment. Also compatible with the mechanical disc-brake system.
- Multiple protection features:
Low voltage cut-off protection / Over-heat protection / Throttle signal loss protection / Motor blocked protection
- Easily programmed with the SET button of the ESC, and also compatible with pocket-sized Program Card.

Specifications

Model	WP-8BL100-RTR	WP-8BL150-RTR
Cont. / Peak Current	100A / 650A	150A/950A
Motor Supported	Sensored / Sensorless Brushless Motor (only in sensorless mode)	
Cars Applicable	1/8 Touring Car, SCT, Buggy, 1/10 Truggy, Buggy	
Motor Limit	Note 1 3S LiPo : 4068 size motor * KV≤3000 4S LiPo : 4068 size motor * KV≤2400	
Resistance	0.0005 ohm	0.00035 ohm
Battery	8-12 Cells NiMH + 3-4S LiPo	8-18 Cells NiMH + 3-6S LiPo
BEC Output	6V/5A, Switch mode	
Programming Port	FAN / PRG Port	
Dimension	59.5(L) × 48(W) × 42(H)	
Weight (with wires)	173g	178g

Note 1 : The cooling fans of ESC is supplied by the built-in BEC, so it is always working under 6V .

Connection

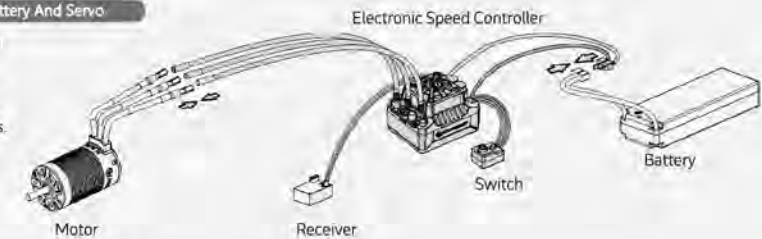
[BEGIN TO USE THE NEW ESC]

Connect The ESC, Motor, Receiver, Battery And Servo

- The #A, #B, #C wires of the ESC can be connected with the motor wires freely (without any sequence). If the motor runs in the opposite direction, please swap any two wire connections.

WARNING!

- For safety, please always keep the wheels away from the track when switching on the ESC.



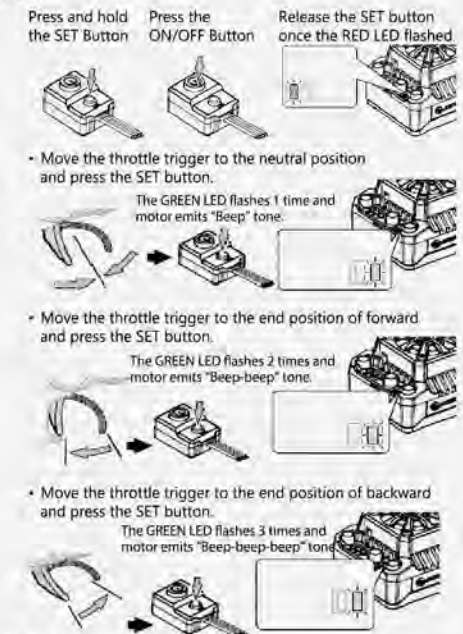
Throttle Range Setting (Throttle Range Calibration)

- In order to make the ESC match the throttle range, you must calibrate it when you begin to use a new ESC, or a new transmitter, or change the settings of neutral position of the throttle stick, ATV or EPA parameters, etc.

- Switch off the ESC, turn on the transmitter, set the direction of throttle channel to "REV", set the "EPA/ATV" value of throttle channel to "100%", and disable the ABS function of your transmitter.
- Hold the "SET" key and then switch on the ESC, and release the "SET" key as soon as possible when the red LED begins to flash. **Note 2**
- Set the 3 points according to the steps shown in the pictures on the right side.
 - The neutral point
Move the throttle stick at the neutral point, and then click the SET key, the green LED flashes 1 time.
 - The end point of forward direction
Move the throttle stick at the end point of forward direction, and then click the SET key, the green LED flashes 2 times.
 - The end point of backward direction
Move the throttle stick at the end point of backward direction, and then click the SET key, the green LED flashes 3 times.
- Throttle range is calibrated; motor can be started after 3 seconds.

Note 2

If you don't release the "SET" key as soon as the red LED begins to flash, the ESC will enter the program mode, in such a case, please switch off the ESC and re-calibrate the throttle range again from step A to step D.



Check LED Status In Normal Running

- When the throttle stick is in the neutral range, neither the Red LED nor the Green LED lights up.
- When the car moves forward, the Red LED solidly lights; the Green LED also lights up when the throttle stick is at the top position.
- When the car brakes, the Red LED solidly lights; the Green LED also lights up when the throttle stick is at the bottom position and the maximum brake force is set to 100%.
- When the car reverses, the Red LED solidly lights.



WP-8BL100-RTR / WP-8BL150 RTR User Manual



Programmable Items

Programmable Items	Programmable Value								
	1	2	3	4	5	6	7	8	9
1. Running Mode	Forward with Brake	F&R with Brake	Forward & Reverse						
2. Drag Brake Force	0%	5%	10%	20%	40%	60%	80%	100%	
3. Low Voltage Cut-Off Threshold	Non Protection	2.6V/Cell	2.8V/Cell	3.0V/Cell	3.2V/Cell	3.4V/Cell			
4. Start Mode(Punch)	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9
5. Max Brake Force	25%	50%	75%	100%	Disable				

Programmable Values

Running Mode

- "Forward with Brake" mode : The car can go forward and brake, but cannot go backward, this is suitable for competition.
- "Forward/Reverse with Brake" mode : Provides backward function, which is suitable for daily training.

Note:

- "Forward/Reverse with Brake" mode 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 1st "click"), the ESC begins to brake the motor, the motor speeds down but it is still running, not completely stopped, so the backward action is NOT happened immediately. 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 happen. The "Double-Click" method can prevent mistakenly reversing action when the brake function is frequently used in steering. By the way, in the process of braking or reversing, if the throttle stick is moved to forward zone, the motor will run forward at once.
- "Forward/Reverse" mode uses "Single-click" to make the car go backward. When you move the throttle stick from forward zone to backward zone, the car will go backward immediately. In the process of braking or reversing, if the throttle stick is moved to forward zone, the motor will run forward at once.

Drag Brake Force

- Set the amount of drag brake applied at neutral throttle to simulate the slight braking effect of a neutral brushed motor while coasting.

Low Voltage Cut-Off

- The function prevents the lithium battery pack from over discharging. The ESC detects the battery's voltage at any time, if the voltage is lower than the threshold for 2 seconds, the output power will be cut off, and the red LED flashes in such a way: ☆☆☆☆.

Start Mode

- Select from "Level1" to "Level9" as you like. Level 1 has a very soft start effect, while level 9 has a very aggressive start effect. From Level 1 to Level 9, the start force is increasing. Please note that if you choose "Level 7" to "Level 9" mode, you must use good quality battery with powerful discharge ability, otherwise these modes cannot get the burst start effect as you want. If the motor cannot run smoothly (that means the motor is trembling), it may caused by the weak discharge ability of the battery, please choose a better one or a softer gear ratio.

Maximum Brake Force

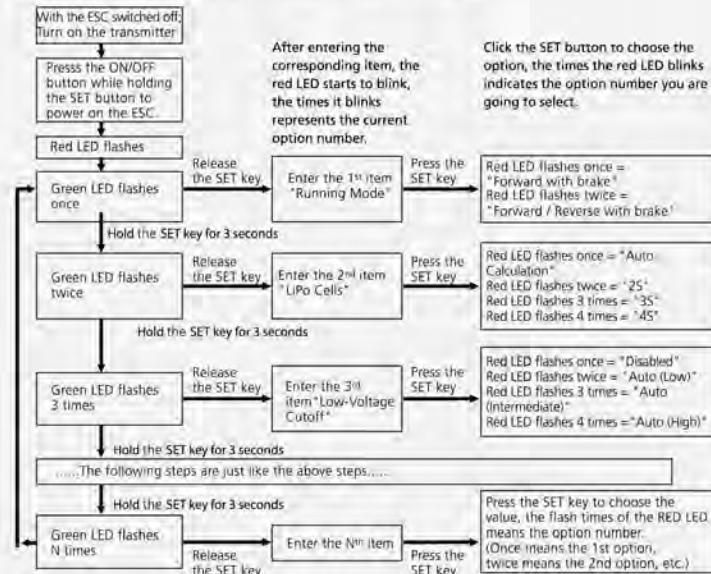
- The ESC provides proportional brake function. The brake force is related to the position of the throttle stick. Maximum brake force refers to the force when the throttle stick is located at the end point of the backward zone. A very large brake force can shorten the brake time, but it may damage the gears. The "Disable" option inhibits the inherent brake function of the speed controller. When this option is selected, the brake function is realized by a traditional mechanical disc-brake system driven by a servo.

Factory Reset

- At any time when the throttle is located in neutral zone (except in the throttle calibration or parameters program process), hold the "SET" key for over 3 seconds, the red LED and green LED will flash at the same time, which means each programmable item has be reset to its default value. It needs to be restarted to complete the whole process.

Program The ESC

Program the ESC with the SET button on the ESC



Note :

- In the program process, the motor will emit "Beep" tone when the LED is flashing.
 - We use a long time flash and long "Beep" tone to represent number "5" for identify the items of the big number.
 - A long time flash (Motor sounds "B---") = the No. 5
 - A long time flash + 1 short time flash (Motor sounds "B—B") = the No. 6
 - A long time flash + 2 short times flash (Motor sounds "B---BB") = the No. 7
 - A long time flash + 3 short times flash (Motor sounds "B---BBB") = the No. 8
 - A long time flash + 4 short times flash (Motor sounds "B---BBBB") = the No. 9
- Program the ESC w/ the LED program box
- The Program Card is optional equipment which needs to be purchased separately. It has 3 digital LEDs to display the programmable items' number and the options' number. (Please refer to the user manual of the program card for detail info)

! The Rx wire of the ESC (for connecting receiver) CANNOT be used to connect with the LED Program Card. Please only use the special port between the terminals ABC to connect with the Program Card.



Trouble Shooting

TROUBLE	POSSIBLE REASON	SOLUTION
After power on, motor doesn't work, and the cooling fan doesn't work.	The connections between battery pack and ESC are not correct.	Check the power connections. Replace the connectors.
After power on, motor can't work, but emits "beep-beep, beep-beep" alert tone. (Every "beep-beep" has a time interval of 1 second.)	Input voltage is abnormal, too high or too low.	Check the voltage of the battery pack
After the ESC was powered on and finished LiPo cells detection (the GREEN LED flashed N times), and then the RED LED flashed rapidly.	1. The ESC didn't detect any throttle signal. 2. The neutral throttle value stored on your ESC is different from the value stored on the transmitter.	1. Check if the throttle wire is reversely plugged in or in the wrong channel and if the transmitter is turned on. 2. Re-calibrate the throttle range after you release the throttle trigger to the neutral position.
The motor runs in the opposite direction when it is accelerated.	1. The (ESC-to-motor) wiring order was incorrect. 2. Your chassis is different from popular chassis.	Swap any two wire connections between the ESC and the motor.
The motor suddenly stops running while in working state.	1. The throttle signal is lost. 2. The ESC has entered the Low Voltage Protection Mode or Over-heat Protection Mode	1. Check the transmitter and the receiver, or the signal wire from the throttle channel of your receiver. 2. Red LED flashing means Low Voltage. Green LED flashing means Over-heat.
The LED program card kept display 3 short lines (---) after you connected it to your ESC.	The programming card/box was connected to the ESC via the throttle control cable (Rx cable).	The programming port of this ESC is also the fan port, so please connect the ESC and programming card/box by plugging the programming cable into the fan port.
The vehicle could run forward (and brake), but could not reverse.	1. The throttle neutral position on your transmitter was actually in the braking zone. 2. Set the "Running Mode" improperly. 3. The ESC was damaged.	1. Re-calibrate the throttle neutral position. No LED on the ESC will come on when the throttle trigger is at the neutral position. 2. Set the "running mode" to "F/R with Brake". 3. Contact the distributor for repair or other customer services.
The car ran forward/backward slowly when the throttle trigger was at the neutral position.	1. The neutral position on the transmitter was not stable, so signals were not stable either. 2. The ESC calibration was not proper.	1. Replace your transmitter. 2. Re-calibrate the throttle range or fine tune the neutral position on the transmitter.



3 Differentials & F/R Shock Absorbers

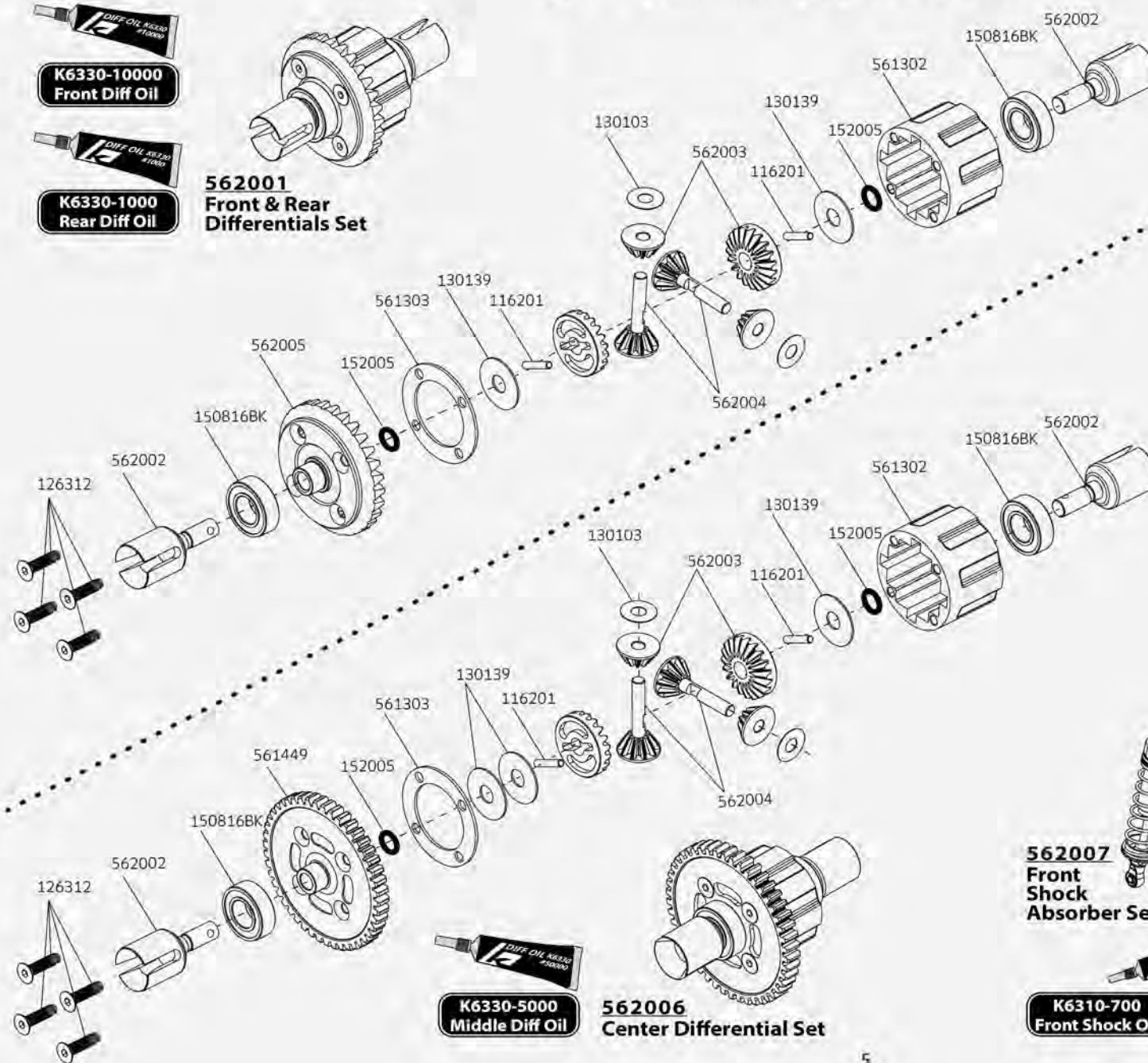


K6330-10000
Front Diff Oil



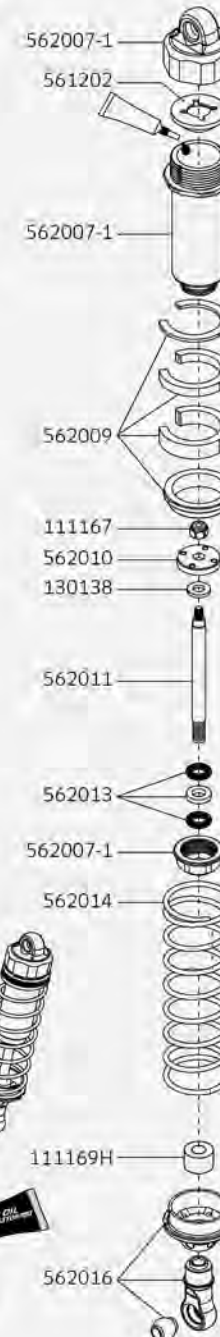
K6330-1000
Rear Diff Oil

562001
Front & Rear
Differentials Set



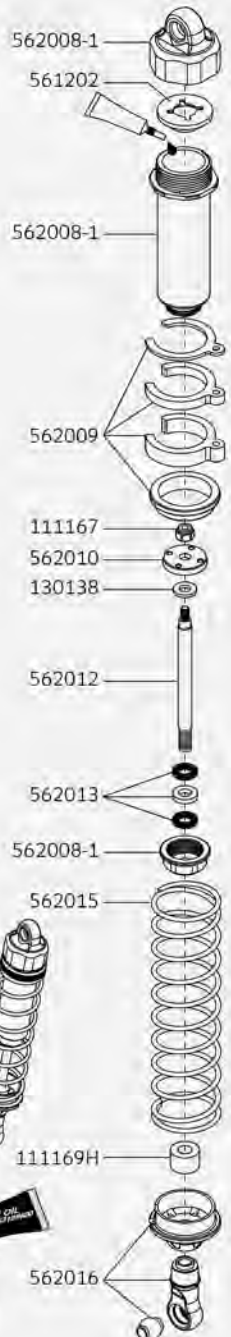
K6330-5000
Middle Diff Oil

562006
Center Differential Set



562007
Front Shock
Absorber Set

K6310-700
Front Shock Oil



562008
Rear Shock
Absorber Set

K6310-600
Rear Shock Oil

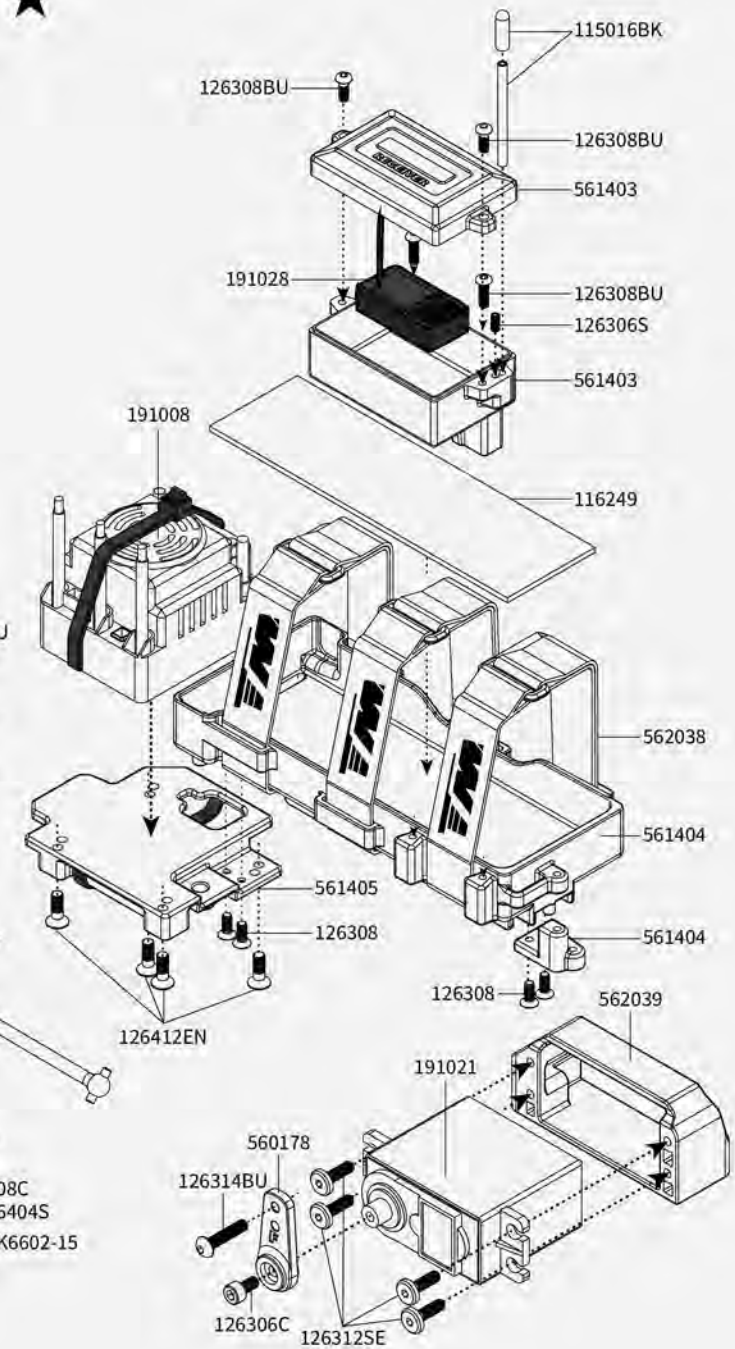
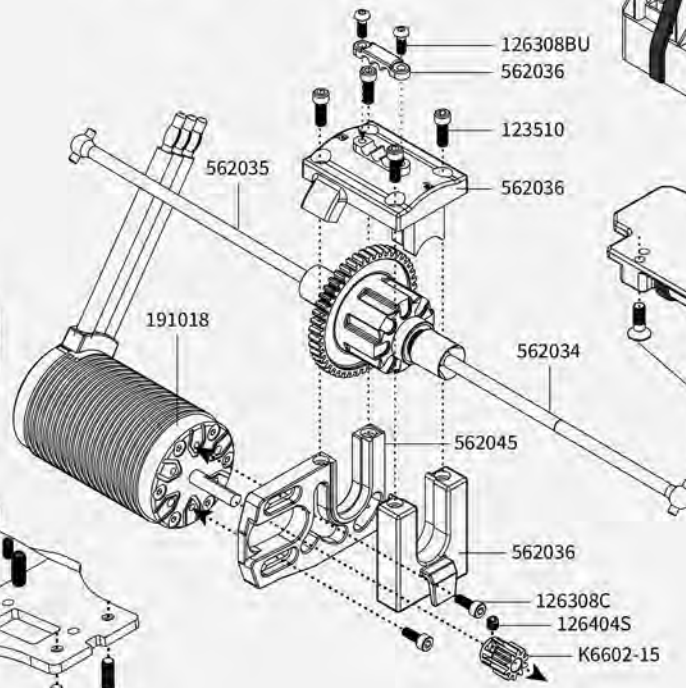
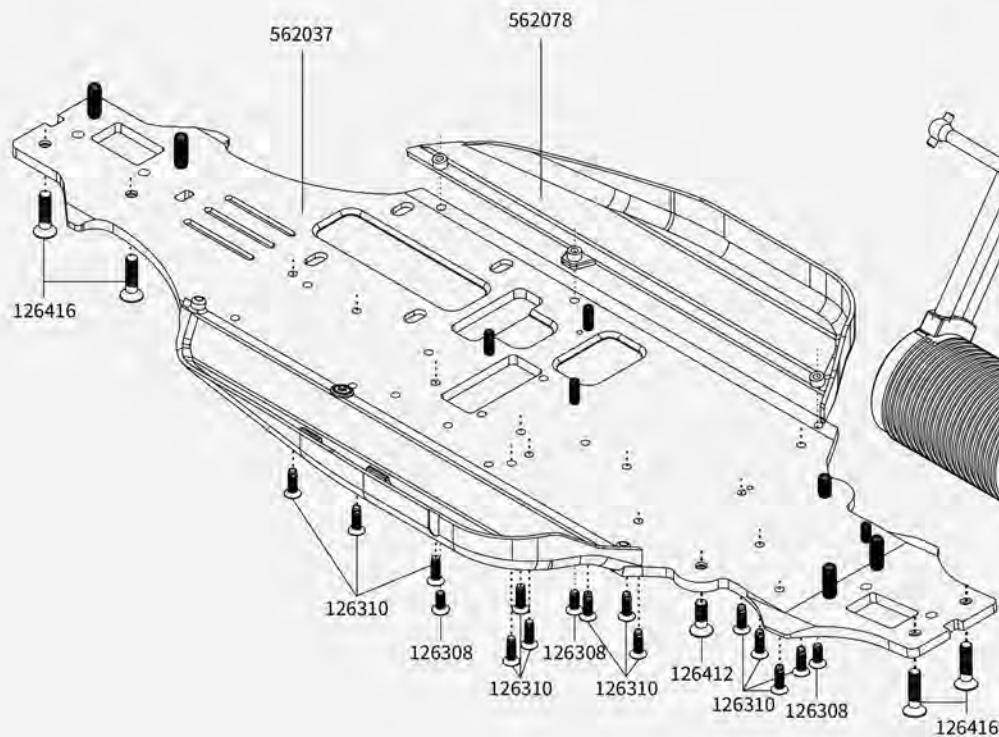




Middle Part



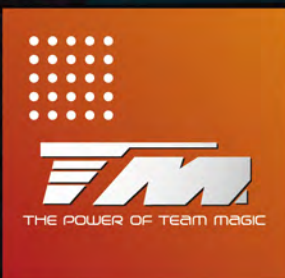
- 562088G
- 562088R





560018-1/8 UCP RACING PICKUP-PART LIST

ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION
111007ST	3.0mm Steel Locknut (10)	126412	4x12mm Steel F.H. Screw (6)	561406	Side Guard	562024	Front Lower Arm(2)
111147F	3.5mm Steel Flat Nut (6)	126412EN	4mm Steel Flat Round Engine Mount Screw (6)	561440	Triangle Plate (Front)	562025	Steering Block (2)
111164	3.5mm Lock Nut (10)	126412S	4x12mm Set Screw (6)	561441	Front Stiffener	562026	Wheel Adapter Set (2)
111166	R8 Angled Body Clip (10)	126416	4x16mm Steel FH Screw (6)	561442	Front Upper Arm Mount	562027	Mounted Tires (2)
111167	2.6mm Lock Nut (10)	126505S	M5x5mm Set Screw(6)	561443	Front Shock Tower	562028	Front Upper Arm Set (2)
111169H	4.0mm Shock Shaft Bump Stop -Hard (4)	130102	8.1x12x0.2mm Shim (10)	561444	Rear Shock Tower	562029	Servo Saver Nylon Parts
115016BK	Antenna Rod (2) BLACK	130103	4.2x10x0.2mm Shim (6)	561449	46T Main Gear	562030	Servo Saver Spring Holder
115027BK	Ball End & 5.8mm Single Flanged Steel Ball (6)	130107	13.2x15.9x0.5mm Shim (6)	561462	Rear Lower Outer Hinge Pin(2)	562034	Center Driveshaft - Front
116135C	3x50mm CR Adjustable Rod (2)	130108	6.05x9.5x0.5 mm Shim(10)	561467	Front Lower Outer Hinge Pin(2)	562035	Center Driveshaft - Rear
116154BK	5x40mm Hardened Adjustable Rod -BK (2)	130119	3.6x8x1mm Washer (10)	561469	Steering Block Carrier Bushing (4)	562036	Center Differential Mount
116201	2x10.8mm Pin (10)	130138	3.5x7x1 Washer (10)	561471	Front Upper Inner Hinge Pin(2)	562037	Chassis
116202	E-clip 2.5 (10)	130139	5.2x15x0.5 Washer (10)	561475	3x7x3mm Steel Bushing(4)	562038	Quick Released Battery Fastener (3)
116229	2.5x16.8mm PIN(10)	150816BK	8x16x5mm Bearing-Black	561476	6x10x3mm Steel Bushing(4)	562039	Servo Mount
116249	EVA Tape 4x14cm	152005	O-Ring 4.7X1.4mm(10)	561491	Shock Cap Bushing (4)	562040	Rear Lower Arm(2)
123510C	3.5x10mm Steel Cap Screw (6)	152014	3.9x2.0 O-RING (10)	562001	Complete Differential Kit (F/R)	562041	Rear Upper Arm Set (2)
123513BU	3.5x13mm Steel Button Head Screw (6)	191008	THOR WP-8100 ESC for Brushless Motor	562002	F/R Differential Outdrive (2)	562042	Rear Stiffener
123514	3.5x14mm Steel FH Screw (6)	191018	THOR 4068 Brushless Motor 2500KV (14.8V)	562003	Differential Bevel Gear Set (for 1 diff)	562043	Rear Bottom Arm Hinge Pin Mount
123516BU	3.5x16mm Steel BH Screw (6)	191021	S1601 Servo 16KG	562004	Differential Bevel Shaft (2)	562044	Rear Bumper Set
123518	3.5x18mm Steel FH Screw (6)	191028	THOR GT2E 2.4G Transmitter w/Receiver	562005	Machined Bevel Gear -29T/9T	562045	Motor Mount
123520BU	3.5x20mm Steel BH Screw (6)	560130	ST Steel 4x68.8mm Hinge Pin (2)	562006	Center Differential Set	562084	High Performance All-Terrain Tires (2)
123525BU	3.5x25mm Steel BH Screw (6)	560178	Servo Arm (Futaba) (2)	562007	Shock Absorber Set-Front (2)	K6310-600	K Factory Shock Oil 70ml/2.5oz #600
123550BU	3.5x50mm Steel BH Screw (6)	560243	Rear Body Mount	562007-1	Shock Body -Front (2)	K6310-700	K Factory Shock Oil 70ml/2.5oz #700
126306C	3x6mm Cap Screw (6)	560244	ST Steel Small Bevel Gear Outdrive (2)	562008	Shock Absorber Set-Rear (2)	K6330-1000	K Factory Diff Oil 40ml #1000
126306S	3x6mm Set Screw (6)	560298	Steering Linkage Set	562008-1	Shock Body -Rear (2)	K6330-10000	K Factory Diff Oil 40ml #10000
126308	3x8mm Steel F.H. Screw (6)	560511	Servo Saver Spring (1.5mm) Blue	562009	Shock Spring Holder (2)	K6330-50000	K Factory Diff Oil 40ml #50000
126308BU	3x8mm Steel Button Head Screw (6)	561202	M8 Neo-Shock Bladder (4)	562010	Shock Piston (4)	K6602-15	M1.0 Pinion Gear for 5mm Shaft 15T
126308C	3x8mm Steel Cap Screw (6)	561302	Diff Case Set	562011	Shock Shaft - Front (2)		
126310	3x10mm Steel F.H. Screw (6)	561303	Diff Case Gasket (4)	562012	Shock Shaft - Rear (2)		
126310BU	3x10mm Button Head Screw (6)	561307	Front Shock Tower Stiffener	562013	Shock O-Ring & Washer (2)		
126312	3x12mm Steel F.H. Screw (6)	561309	Front & Rear Diff Gear Box (1 set)	562014	Shock Spring - Front (2)		
126312BU	3x12mm Button Head Screw (6)	561321	Caster Block (1 pair)	562015	Shock Spring - Rear (2)		
126312SE	3x12mm Steel Flat Round Servo Mount Screw (6)	561323	Servo Saver Post (2)	562016	Shock lower Joint (2)		
126314	3x14mm Steel FH Screw (6)	561325	Steering Rod Nylon Ball & Ball End Set	562019	Shock Pivot Ball 5.8mm (4)		
126314BU	3x14mm Button Head Screw (6)	561336	Rear Hub Carrier & Mud Sweeper (1 pair)	562020	Front Bottom Arm Hinge Pin Mount		
126320C	3x20mm Cap Screw (6)	561403	Receiver Box	562021	Front Bumper Set		
126404S	4x4mm Set Screw (6)	561404	Battery Box	562023	CVA Joints (2)		
126410C	4x10mm Steel Cap Screw(6)	561405	ESC Mount	562023L	CVA Joints +1mm (2)		



1/8 RACING PICKUP

560018 - 1/8th UCP Racing Pickup



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