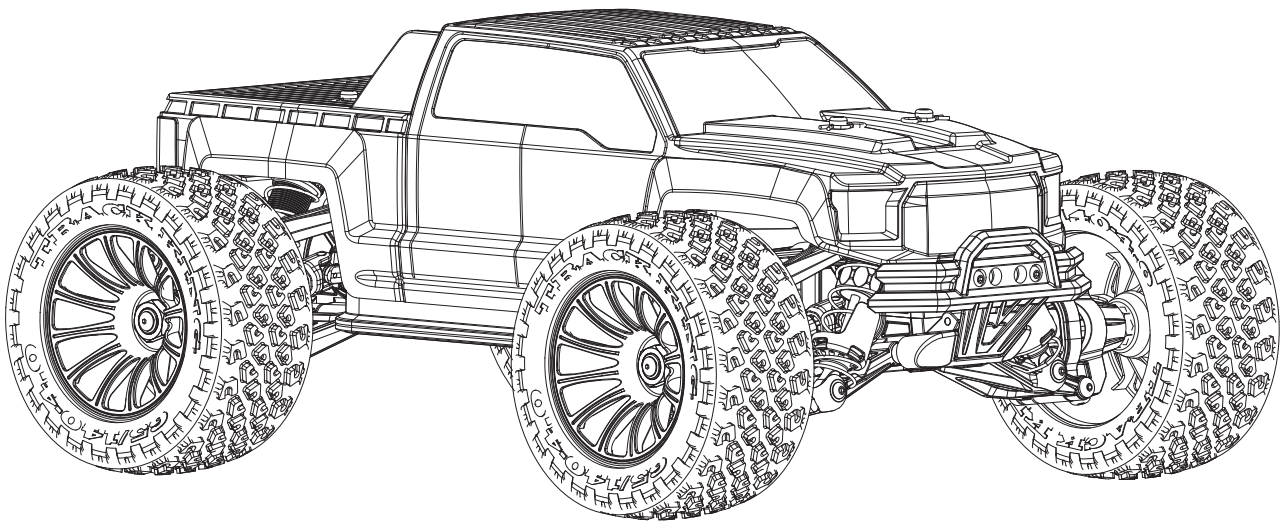
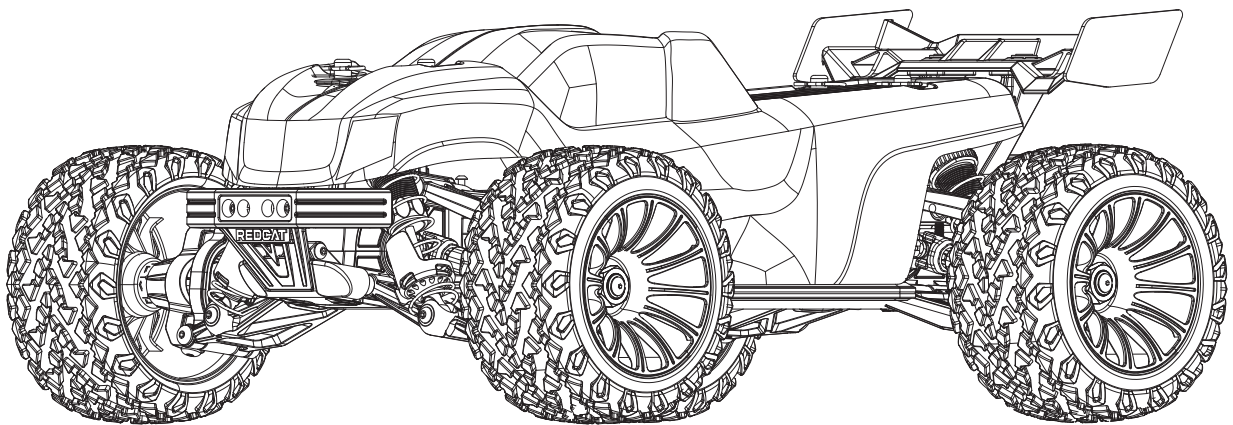


FERRING®

USER MANUAL

Truggy TR10&TR10 4S



Truck TK10&TK10 4S



SAFETY PRECAUTIONS & WARNINGS

It is essential to read the entire manual and familiarise yourself with the model and its operation.

Failure to operate the model correctly, may cause damage to the product, property and cause serious injury.

Not suitable for children under 14 years old.

Never operate the model with low powered transmitter batteries.

Never operate the model with a low powered battery pack.

Ensure that all batteries are of the correct voltage.

Always operate your model in an open space, away from, property, vehicles, roads, people, animals and obstacles.

Always keep the model in sight and at a safe operating distance.

Keep fingers clear of any moving, hot or rotating parts.

After use do not touch any parts which may still be hot, such as the ESC (Electronic Speed Controller) battery, motor and servos.

Before operating, always turn on the transmitter first and then the model.

Turn off the model and then the transmitter, when you have finished.

Disconnect battery after use and store in a safe place.

Check the operation of the model first (particularly the radio equipment, ESC and any servos) prior to usage and with the wheels off the ground.

It is the user's responsibility to ensure that the model is functioning correctly and that all nuts, bolts, screws and parts are tightened properly.

Be careful when conducting any maintenance, avoiding sharp edges, moving parts and exercise caution when using any tools.

Inspect your model for any damage after use and replace any worn or damaged parts, including cables and batteries.

Carry out any additional maintenance such as cleaning or lubrication after use.

Only used approved spare parts and never fit any unsuitable items.

Follow all instructions for the model and any associated ancillary items, such as batteries and chargers.

Running the model in wet conditions may cause damage and should be avoided.

Never operate the model when it's raining.

Avoid over heating – this can be caused by continued use of throttle, running in unsuitable terrain, such as sand, gravel, mud, long grass etc.



WARNING: READ AND UNDERSTAND ALL OF THE INSTRUCTIONS.

FAILURE TO FOLLOW THE INSTRUCTIONS CAN LEAD TO EXCESSIVE HEAT, FIRE, EXPLOSION, SERIOUS INJURY AND DAMAGE TO PROPERTY.

CHARGE THE BATTERY IN AN APPROVED BATTERY BAG OR TIN, ON A NON-FLAMMABLE SURFACE AND AWAY FROM COMBUSTIBLE MATERIALS.

NEVER LEAVE THE BATTERY UNATTENDED WHILST CHARGING.

- Disconnect batteries immediately if they become hot or swollen.
- Never charge batteries overnight.
- Do not modify or alter the battery or leads.
- Do not attempt to charge a damaged, swollen or hot battery.
- Only use an approved battery and charger and in accordance with the manufacturer's instructions.
- Batteries and chargers should only be used and charged by an adult.
- Never charge a battery in sunlight and/or excessive hot or cold temperatures.
- Check that the polarity is correct before charging.
- Disconnect the battery after charging and allow to cool before use.
- Only charge batteries in a well, ventilated area.

WARRANTY



The Warranty Does not cover:

Whilst some items may be water resistant, operating in wet conditions may cause water ingress or damage, which is not covered under the terms of the guarantee.

Any modifications whatsoever made to the manufacturing specification and ancillary items.

Overheating of the components due to continuous operation in unsuitable conditions.

Damage or failure, attributable to Acts of God, abuse, accident, impact damage, improper or abnormal use, loss of components whilst driving, failure to follow the instructions and loss of control.

Wear and tear.

Cosmetic damage.

Postal charges, shipping or insurance.

Returning the item.

Servicing and repairs.

Consumables.

Batteries and chargers.

Failure to conduct maintenance

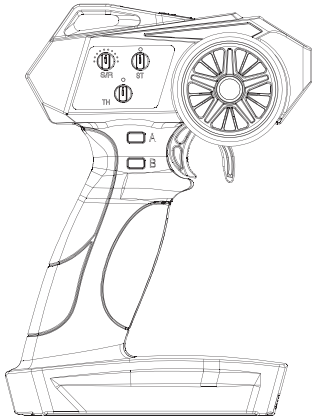
General Conditions

We reserve the right to change at any time and without notice, specifications, materials, design and packaging.

Specifications, information and designs of the actual product may vary from those shown in the instructions, manuals and packaging.

All manuals, operating and safety instructions, form part of this product and failure to follow these procedures will invalidate the warranty.

TRANSMITTER SPECIFICATIONS



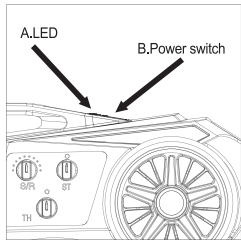
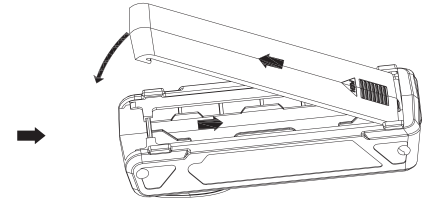
Model: BX300
Channel: 3CH
Frequency: 2.4GHz

INSTALLING THE TRANSMITTER BATTERIES

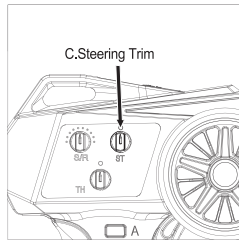
This transmitter requires 4 AA batteries.

1. Open the battery cover from the transmitter.
2. Install the batteries as shown.
3. Close the battery cover.

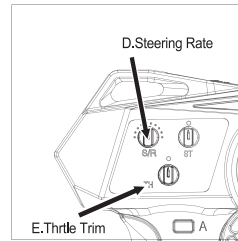
(Does not include the 4 AA batteries.)



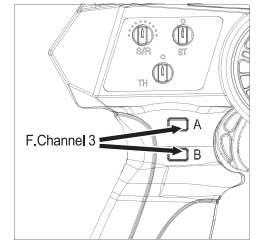
A.LED B.Power switch



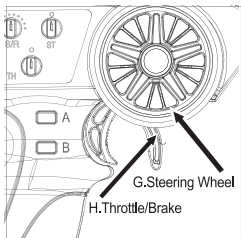
C.Steering Trim



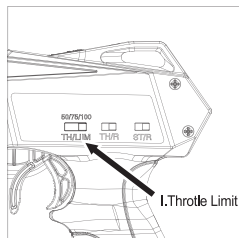
D.Steering Rate
E.Throttle Trim



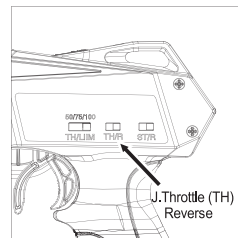
F.Channel 3



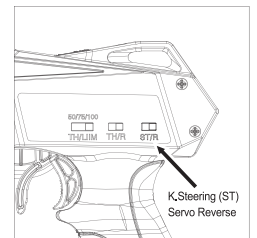
G.Steering Wheel
H.Throttle/Brake



I.Throttle Limit

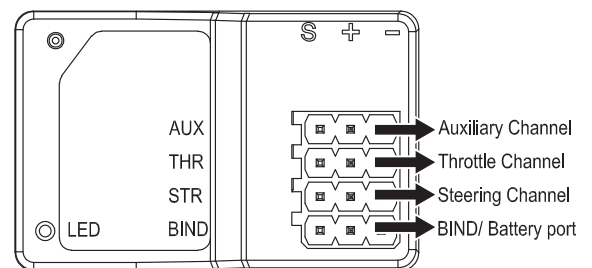


J.Throttle (TH) Reverse



K.Steering (ST) Servo Reverse

Model: BRX300	Weight: 6 grams
Type: FHSS 2.4GHz	Band: 2.4GHz
Antenna Length: 140mm	Voltage Range: 4.5- 10V
Channels: 3	Bind Type: Bind Plug
Dimensions (LxWxH): 33.5mm x 21.5mm x 12.5mm	



BRX300 BINDING

1. Insert the bind plug into the bind port on receiver.
2. Power on the receiver, the LED will flash rapidly to indicate it is in bind mode
3. Rotate the steer full to right and hold up, then power on the transmitter; the LED on the transmitter will flash, the LED on the receiver stops flashing and lights illuminated indicate that the binding procedure is completed.

RECEIVER SPECIFICATIONS



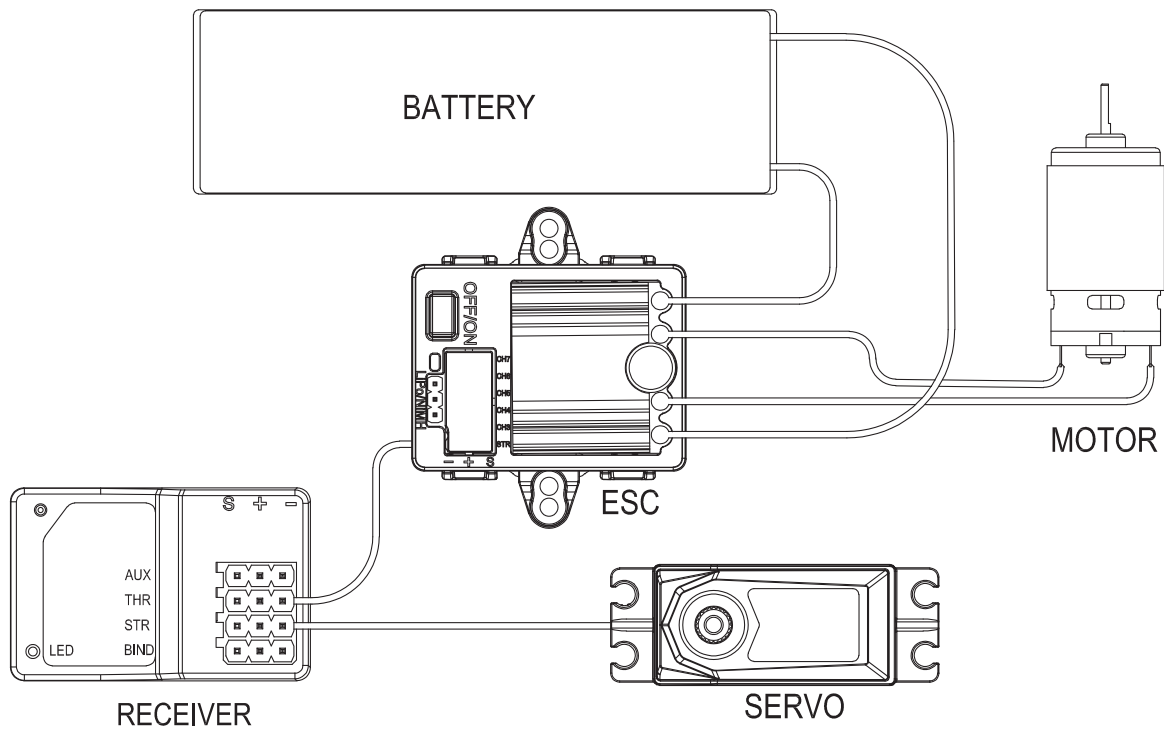
SPECIFICATIONS

- Brushed ESC
- Continuous current 60A
- LiPo/NiMH Cells 2s Lipo, 6-7 Cells NiMH BEC output 6V/5A
- Battery Connector T (T head)
- Motor Connectors 4mm Female Bullet Connectors Weight 52g
- Dimensions 45 x 34x 26mm
- Compatible Motors RC540/RC550/RC570/RC590

Features

Jumper selector for battery mode (LiPo or NiMH, jumper pin to put ESC into NIMH mode is included in a separate bag)

Installation when a motor controller is used



RECEIVER ANTENNA

RECEIVER ANTENNA

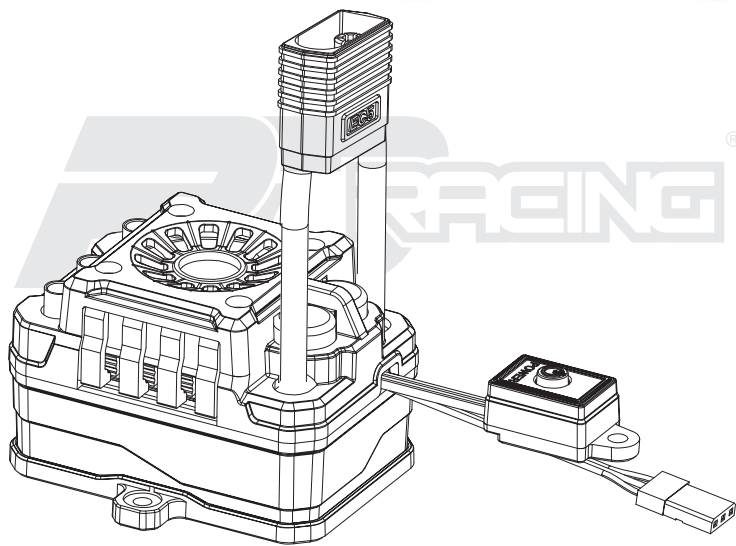
Do not kink, cut or damage the antenna wire. The antenna is made of a coaxial wire; if the outer sheath becomes damaged, the receiver will not work properly. If the antenna is damaged in any way, replace before attempting to use the receiver.

USER MANUAL

Brushless Electronic Speed Controller
120A.150A



Congratulations and thanks for purchasing the PD Racing electronic speed controller (ESC) series . The power system for RC model can be very dangerous, so please read this manual carefully. Since we have no control over the installation, application, use or maintenance of this product, in no case shall we be liable for any damages, losses or costs.



01 Features

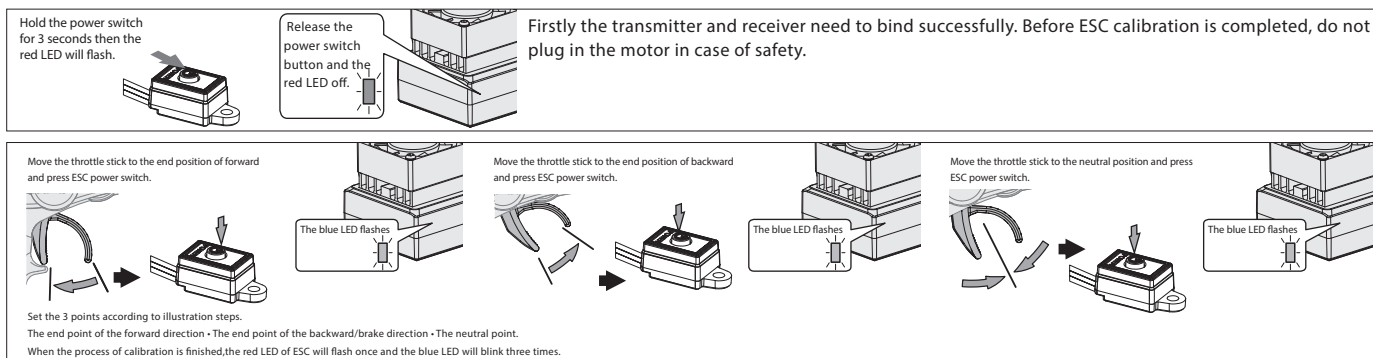
- High performance but low price, users can own this reliable race-ready ESC at an affordable cost.
- Compact size, suitable for various car chassis.
- Core competition program for excellent control feel & multiple programmable items.
- Proportional brake with 4 levels of Maximum Brake Force adjustment, 10 levels of Drag Brake Force adjustment and 6 steps of Initial Brake Force adjustment.
- 15 levels of acceleration (punch) adjustment, from " soft " to "very aggressive" to it for different kinds of cars, tires and tracks.
- Multiple protections: Low voltage cut-off protection for Lipo / Over-heat protection / Throttle signal loss protection
- One-button (the "power switch" button on the ESC) to calibrate the Throttle signal, and easy to setup all parameters to expected settings and reset to the factory default settings by APP .

ESC Type	BrushLess
Power control	On/off Button
Input voltage range	12.6-16.8v (3S-4S LiPO)
# cells battery	LiPo:3S-4S
Current	Max. constant≥120a
BEC	Voltage: 6V/Current: ≥10A
	BEC Type:Switching
Low voltage cutoff	LiPo: 3.4V/1cell (Cutoff action: Soft cut (50% TH) then stop after 20 sec)
Reversible	Yes(50%)
Brake	Yes(selectable by phone APP;default:62%)
(Heat sink)	Yes(Alum6063)
Protection	Thermal(temp(125);Cutoff action: Soft cut (50% TH) then stop after 20 sec)
Battery connection	Wire diameter:12awg/Wire length:150mm/Connector type: EC5-M Plug-Black shell
Motor connection	4.0MM Golden plug -Female head
Case material	Plastic
Receiver connection	Wire diameter:22awg/Wire length:200MM/Connector type:JR-3P
Fan	Plug type
Max. dims (mm)	L58MM*W41MM*H35MM
Max weight (g)	130g

2 Throttle calibration operation

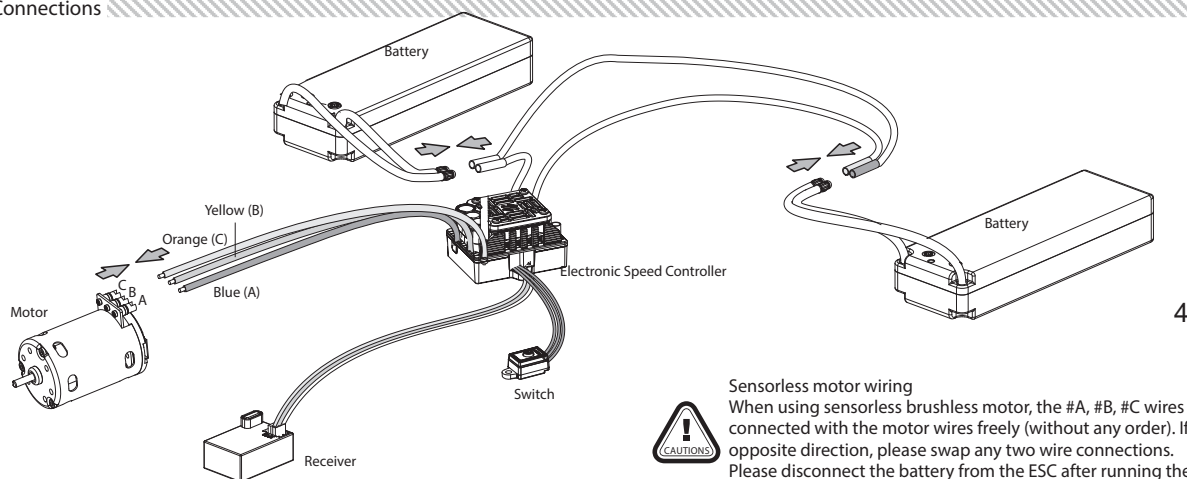


In order to make sure the ESC fits the throttle range of your transmitter, you must calibrate it when begin to use a new ESC, or a used transmitter if some of its settings have been changed, like the Throttle Trim, D/R, EPA or other parameters. Otherwise, the ESC cannot work properly. Besides, we strongly recommend users to enable the "failsafe" function of the transmitter, set the "F/S" of the throttle channel to the Shutdown mode or set the protection value to the neutral position, so the car can be stopped if the receiver fails to get the radio signals from the transmitter. Please calibrate the throttle range according to the following steps.



02 Begin to Use a New Brushless ESC

1 Connections



Specifications					
Battery type	2S Lipo	2-3S Lipo	2-3S Lipo	3-4S/ (2)2S Lipo	4-6S/ (2)3S Lipo
Continuous Current/Peak Current	>45A	>60A	>80A	>120A	>150A
BEC Output	6V/ Minimun5.0A	6V/ Minimun5.0A	6V/ Minimun5.0A	6V/ Minimun10A	6V/ Minimun10A
Battery Connector	T head	T head	T head	EC5 (IC5 compatible)	EC5 (IC5 compatible)
Motor connect port Supported	Ø 4.0	Ø 4.0	Ø 4.0	Ø 4.0	Ø 5.0
Waterproof standard	IP67 standard	IP67 standard	IP67 standard	P67 standard	IP67 standard

2 Steps of Throttle calibration operation and check the LED Status

Before beginning to use a new ESC, you need to calibrate it in order to make sure the ESC matches the throttle ratio of your transmitter. Due to the difference in the throttle signal pulse width of the transmitter, the throttle signal needs to be calibrated in order to have 100% power control. Once finish calibration, the transmitter, receiver, and ESC are matched and connected successfully. Steps are as follows:

- (1) Firstly the transmitter and receiver need to bind successfully.
- (2) Before ESC calibration is completed, do not plug in the motor in case of safety. Press and hold the power switch for about 3 seconds then the red LED will blink. then release the power switch , the red LED will stop blinking and turn off. you successfully enter the calibration mode.
- (3) Keep your transmitter in full accelerate throttle position at the same time click ESC power switch once, and the blue LED will blink once.
- (4) Keep your transmitter in full brake throttle position at the same time click ESC power switch once, and the blue LED will blink once.
- (5) Keep your transmitter returns to the neutral position (release the throttle), click ESC power switch once, and the blue LED will blink once.
- (6) After completing steps 3-4-5, the red LED of ESC will lash once and the blue LED will blink three times to enter the normal operation mode. Then the throttle calibration operation is completed.
- (7) If the LED status in the preceding steps are incorrect then the operation is failed, you need to repeat all steps from beginning.

03 Program the ESC

Brushless ESC - APP parameter setting																
Item No.	Item Name	Parameter List														
		Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8	Option 9	Option 10	Option 11	Option 12	Option 13	Option 14	Option 15
1	Operation mode	forward+Brake	Forward+Reverse+Brake	Forward + Reverse												
2	Drag Brake Force	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%				
3	Low Voltage Cutoff threshold	No protection	2.6V/CELL	2.8V/CELL	3.0V/CELL	3.2V/CELL	3.4V/CELL									
4	Start Mode(Punch)	1.0Level	2.0Level	3.0Level	4.0Level	5.0Level	6.0Level	7.0Level	8.0Level	9.0Level	10.0Level	11.0Level	12.0Level	13.0Level	14.0Level	15.0Level
5	Throttle Rate	1.0Level	2.0Level	3.0Level	4.0Level	5.0Level	6.0Level	7.0Level	8.0Level	9.0Level						
6	Max Brake Force	25%	50%	75%	100%	Disable										
7	Max Reverse Force	25%	50%	75%	100%											
8	Initial Brake Force	Drag Brake Force	0%	10%	20%	30%	40%	50%								
9	Throttle Neutral Range	3.0	4.0	5.0	6.0	7.0	8.0	9.0	90.0	10.0	11.0	12.0				
10	Over Temperature Protection	Disable	105 degree	115 degree	125 degree											
11	Motor rotate direction	Clockwise(CW)	Counter Clockwise(CCW)													
12	LiPo Cells	Auto Calculate	2 Cells	3 Cells	4 Cells	5 Cells	6 Cells	7 Cells	8 Cells							
13	Low Voltage Cutoff Delay	0 Seconds	10 Seconds	15 Seconds	20 Seconds	25 Seconds	30 Seconds									
	BEC Voltage	6.0V	7.4V													

- (1) Ensure that all connections have been completed.
- (2) When begin to use a new ESC, the throttle of the ESC needs to be calibrated.
- (3) When connected the motor and pull the throttle of transmitter, you can confirm that the motor rotates in the correct direction or not. If the direction is reversed, please switch any two output motor cables to adjust the running direction.
- (4) Please ensure that the operation status of ESC is normal then all would be under controlled.
- (5) When you need to shut down the ESC, please hold the power switch then the blue LED would blink three times and ESC is shut down successfully.

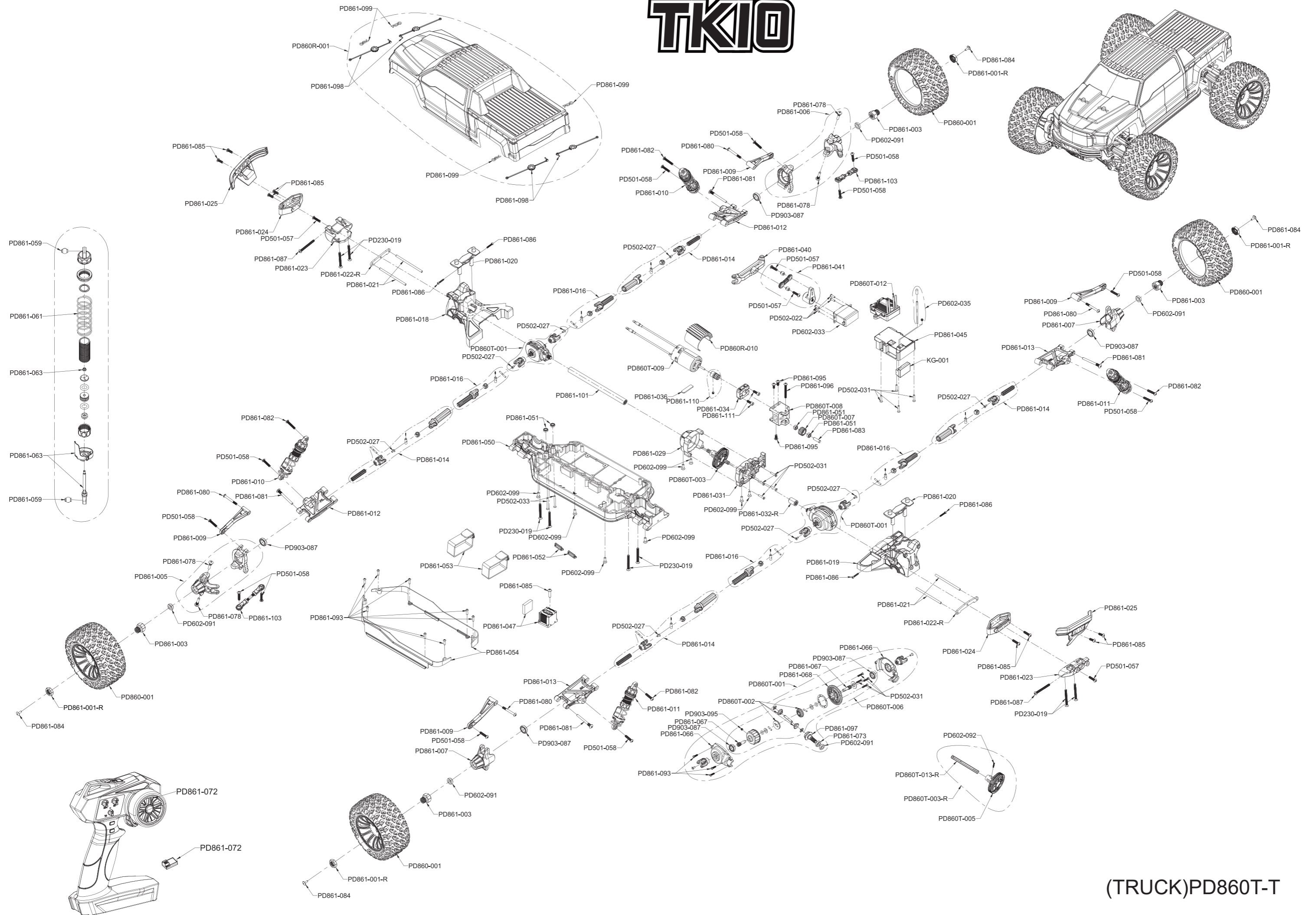
04 Reset All Items to Default Values

At any time you can reset the parameters to its default value by mobile phone APP. Of course you also can set up the parameters to your expected value easily by APP.

05 Trouble Shooting

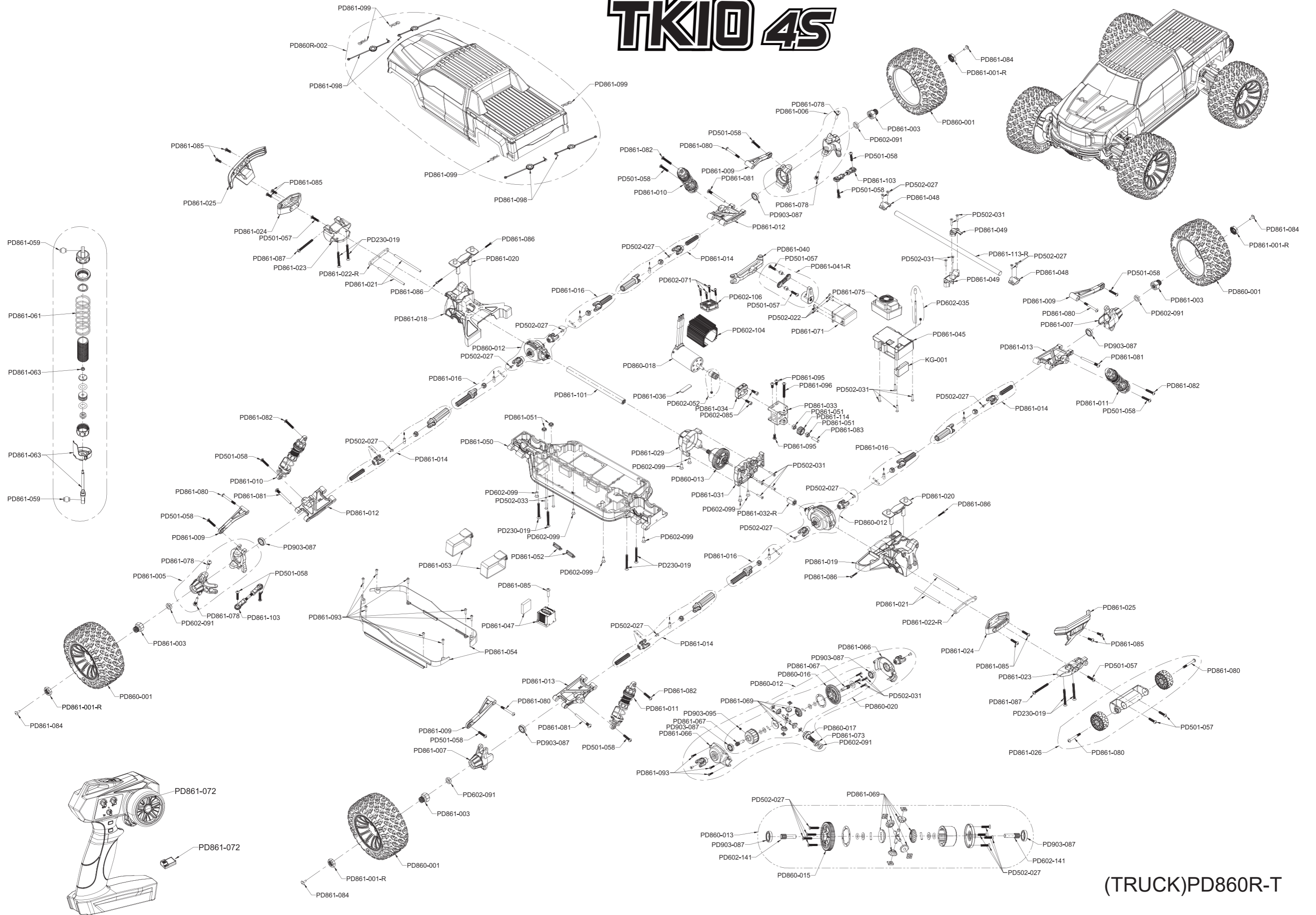
Trouble(s)	Possible Causes	Solution(s)
When powering on the ESC, the red LED light blinks twice to stop for once and the repetition period is one second.	No throttle PWM signal is received	1)Check connect of wire of the PWM signal 2)check if the receiver and the transmitter works normally. 3)check if the receiver has bind to transmitter.
When power on the ESC, the red LED blinks rapidly.	Throttle stick is not in neutral or offset of throttle- trim position	1)Make sure the position of throttle stick is in neutral 2)Make sure no offset of throttle- trim
The blue LED blink rapidly and the motor power will be cut off, when the temperature restore 65 degree. If the red LED flashes rapidly, the motor stutters and can not start up.	High temperature warning: (alarm temperature: 125 degree), ESC enter into thermal protection. Throttle stick is not in neutral or offset of throttle- trim position	Wait several minutes to cool the ESC, When the temperature drops down to (65 degrees), the blue LED will go off and ESC will be restored to normal working operation. Make sure the position of throttle stick is in neutral Make sure no offset of throttle- trim
The red LED will flash slowly and the power will be halved, and the power will stop about 25 seconds later. the red LED keep blinking slowly all the time.	ESC enter into Low voltage cutoff protection	Check the battery voltage. If still has some capacity, lower the cut-off threshold voltage; if not, replace a new battery.

TK10



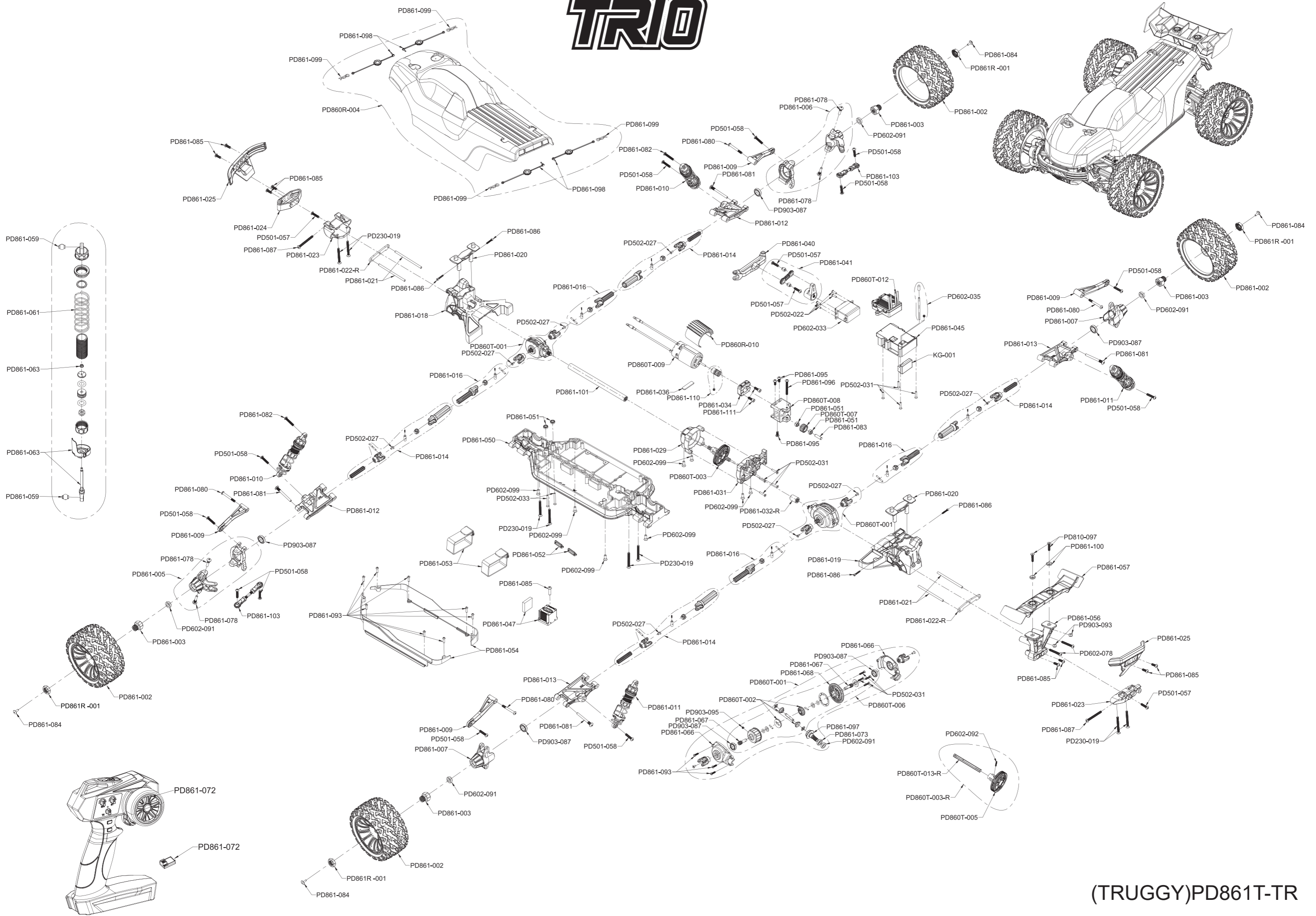
(TRUCK)PD860T-T

TK10 4S



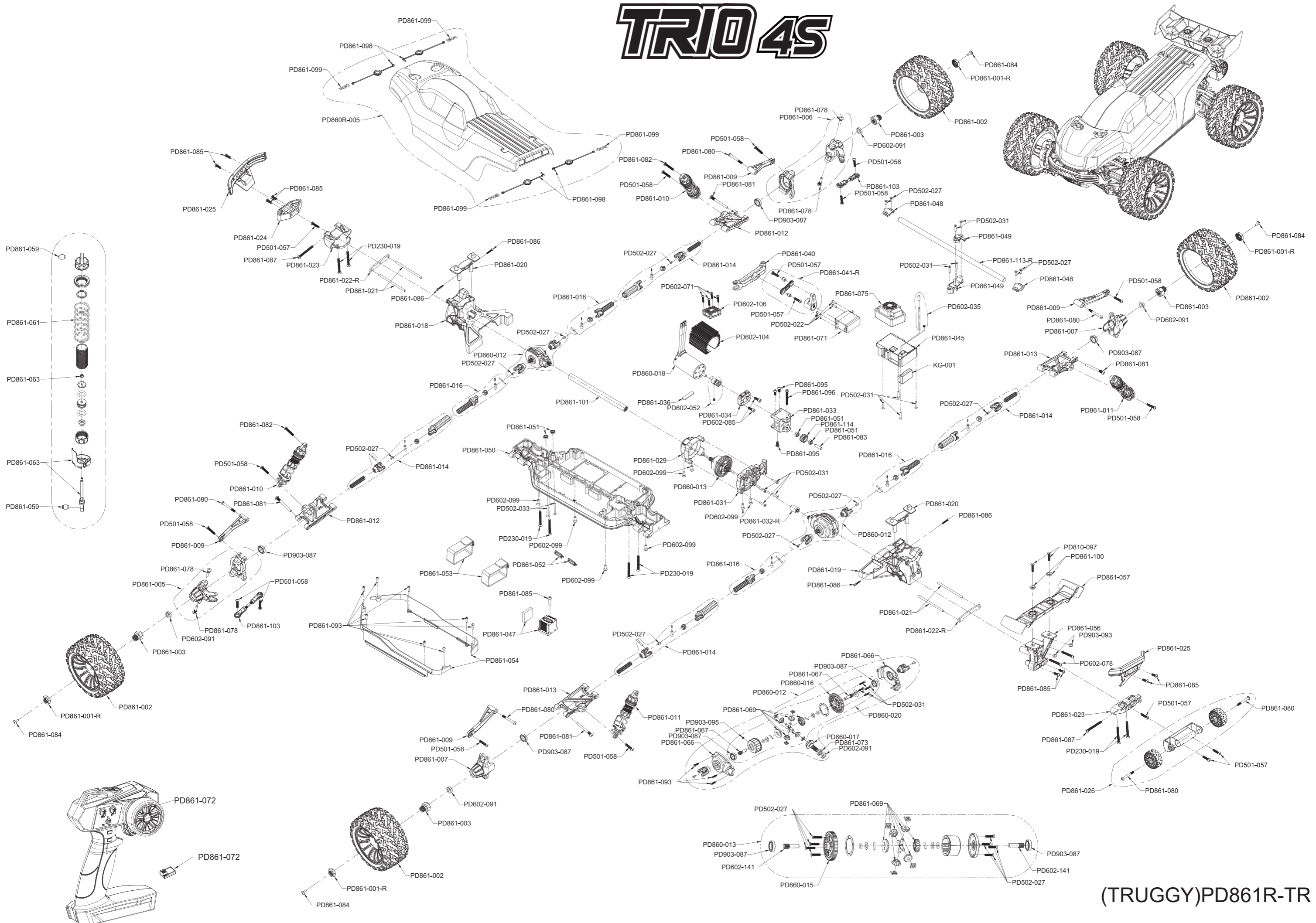
(TRUCK)PD860R-T

TRIO

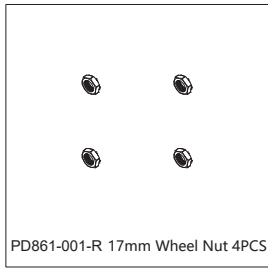


(TRUGGY)PD861T-TR

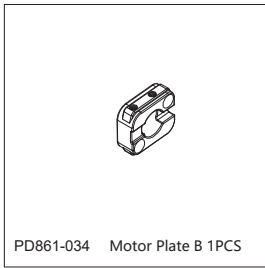
TRIO 4S



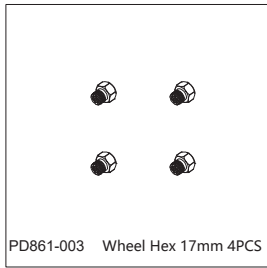
(TRUGGY)PD861R-TR



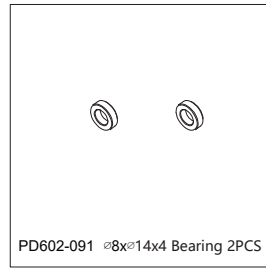
PD861-001-R 17mm Wheel Nut 4PCS



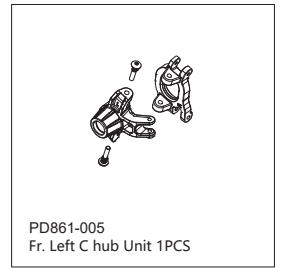
PD861-034 Motor Plate B 1PCS



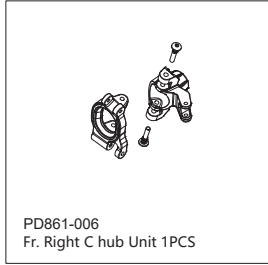
PD861-003 Wheel Hex 17mm 4PCS



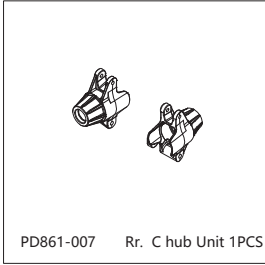
PD602-091 8x14x4 Bearing 2PCS



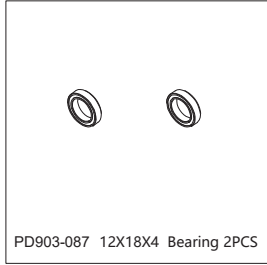
PD861-005 Fr. Left C hub Unit 1PCS



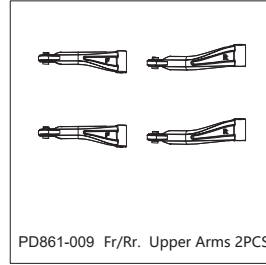
PD861-006 Fr. Right C hub Unit 1PCS



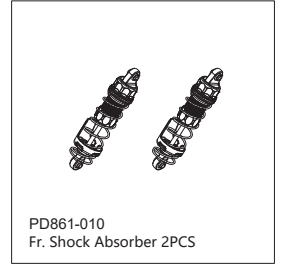
PD861-007 Rr. C hub Unit 1PCS



PD903-087 12X18X4 Bearing 2PCS



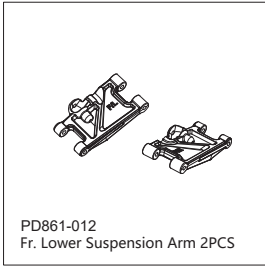
PD861-009 Fr/Rr. Upper Arms 2PCS



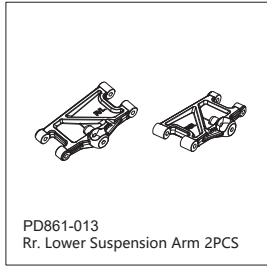
PD861-010 Fr. Shock Absorber 2PCS



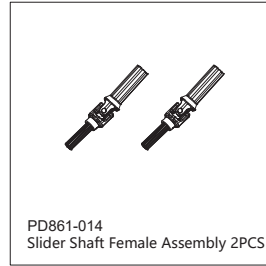
PD861-011 Rr. Shock Absorber 2PCS



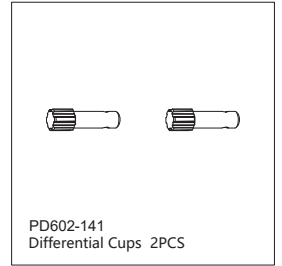
PD861-012 Fr. Lower Suspension Arm 2PCS



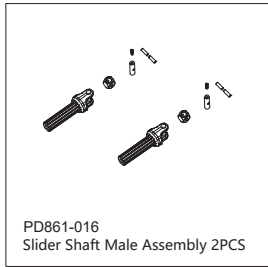
PD861-013 Rr. Lower Suspension Arm 2PCS



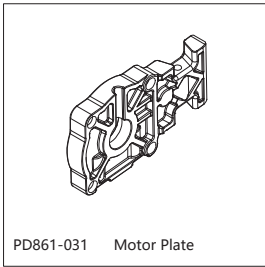
PD861-014 Slider Shaft Female Assembly 2PCS



PD602-141 Differential Cups 2PCS



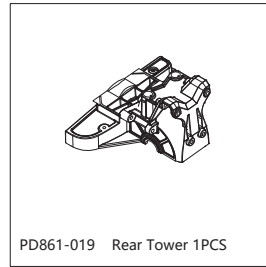
PD861-016 Slider Shaft Male Assembly 2PCS



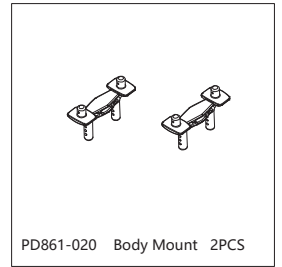
PD861-031 Motor Plate



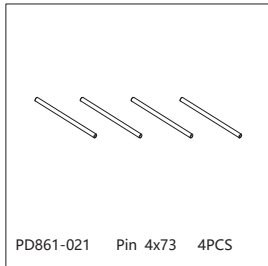
PD861-032-R Centre Diff Shaft Sleeve 1PCS



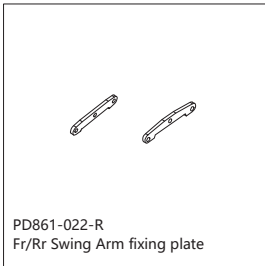
PD861-019 Rear Tower 1PCS



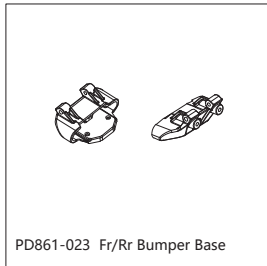
PD861-020 Body Mount 2PCS



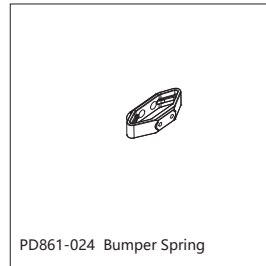
PD861-021 Pin 4x73 4PCS



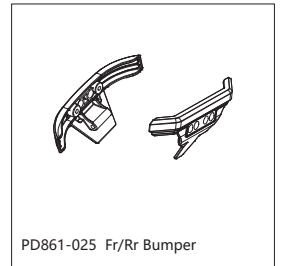
PD861-022-R Fr/Rr Swing Arm fixing plate



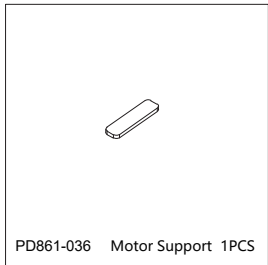
PD861-023 Fr/Rr Bumper Base



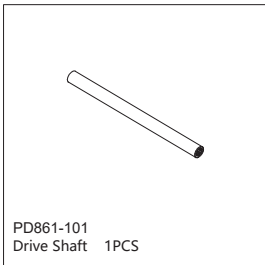
PD861-024 Bumper Spring



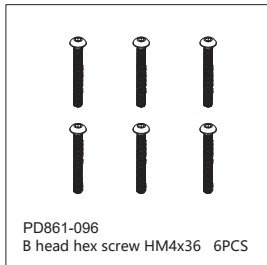
PD861-025 Fr/Rr Bumper



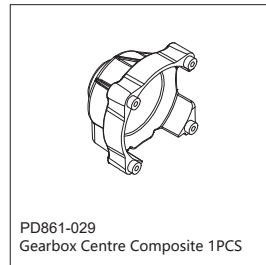
PD861-036 Motor Support 1PCS



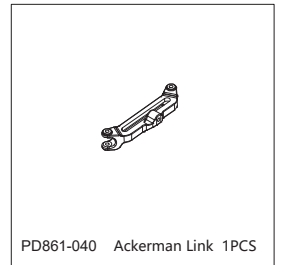
PD861-101 Drive Shaft 1PCS



PD861-096 B head hex screw HM4x36 6PCS



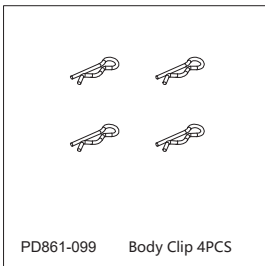
PD861-029 Gearbox Centre Composite 1PCS



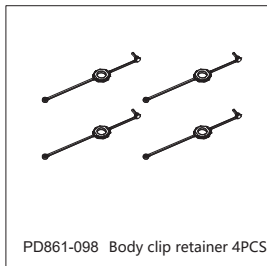
PD861-040 Ackerman Link 1PCS



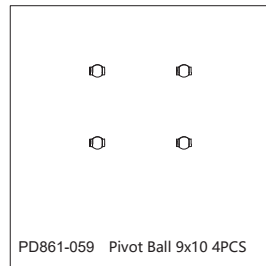
PD860-017 14T Input Gear



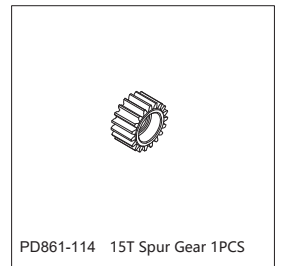
PD861-099 Body Clip 4PCS



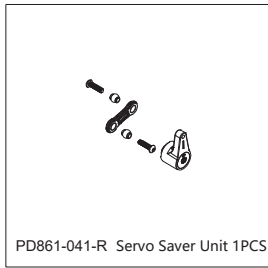
PD861-098 Body clip retainer 4PCS



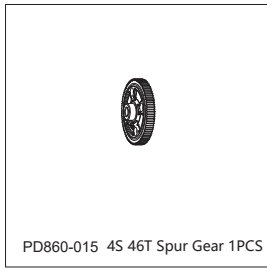
PD861-059 Pivot Ball 9x10 4PCS



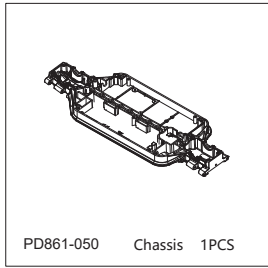
PD861-114 15T Spur Gear 1PCS



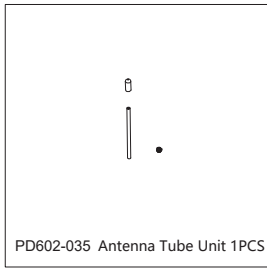
PD861-041-R Servo Saver Unit 1PCS



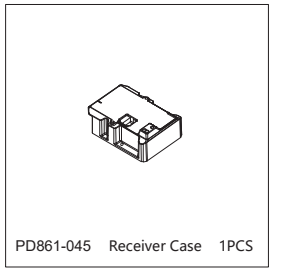
PD860-015 4S 46T Spur Gear 1PCS



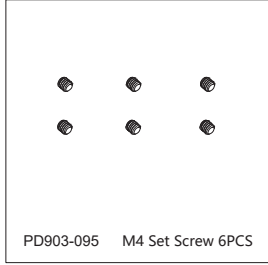
PD861-050 Chassis 1PCS



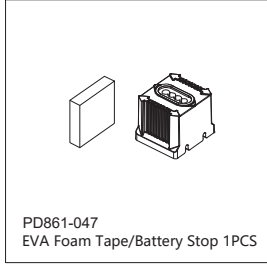
PD602-035 Antenna Tube Unit 1PCS



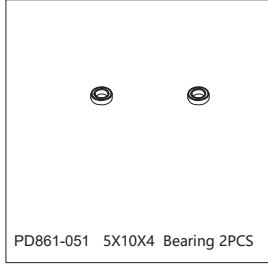
PD861-045 Receiver Case 1PCS



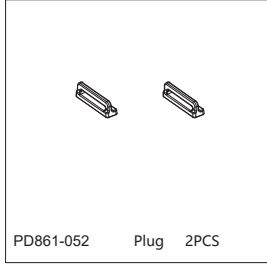
PD903-095 M4 Set Screw 6PCS



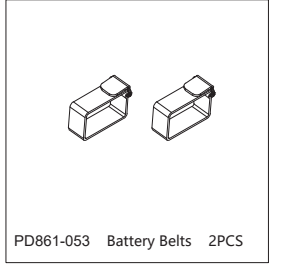
PD861-047
EVA Foam Tape/Battery Stop 1PCS



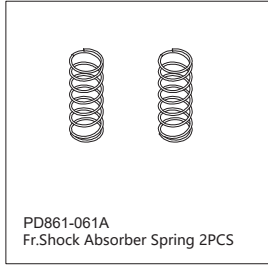
PD861-051 5X10X4 Bearing 2PCS



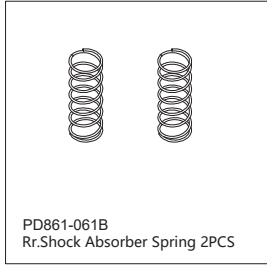
PD861-052 Plug 2PCS



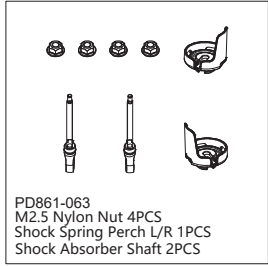
PD861-053 Battery Belts 2PCS



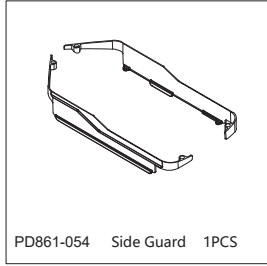
PD861-061A
Fr.Shock Absorber Spring 2PCS



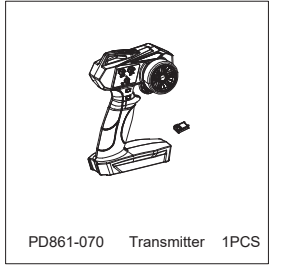
PD861-061B
Rr.Shock Absorber Spring 2PCS



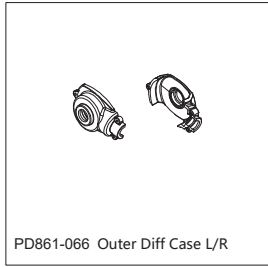
PD861-063
M2.5 Nylon Nut 4PCS
Shock Spring Perch L/R 1PCS
Shock Absorber Shaft 2PCS



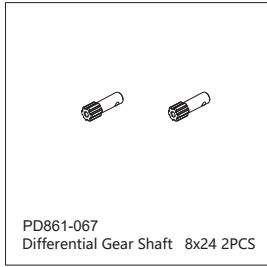
PD861-054 Side Guard 1PCS



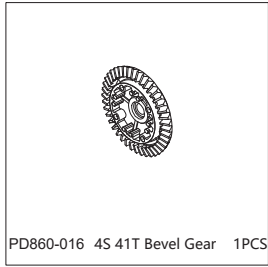
PD861-070 Transmitter 1PCS



PD861-066 Outer Diff Case L/R



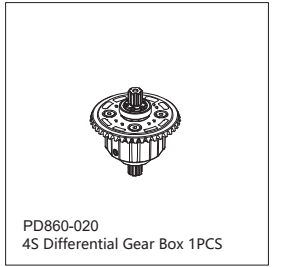
PD861-067
Differential Gear Shaft 8x24 2PCS



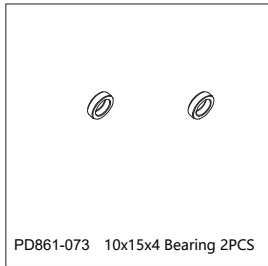
PD860-016 4S 41T Bevel Gear 1PCS



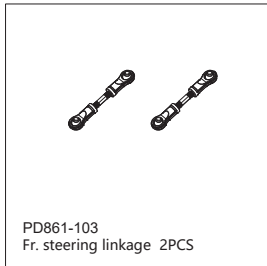
PD861-069
Centre Differential Inner Gear



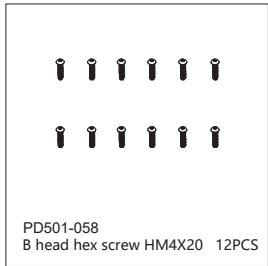
PD860-020
4S Differential Gear Box 1PCS



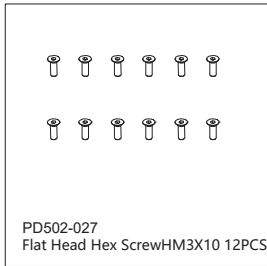
PD861-073 10x15x4 Bearing 2PCS



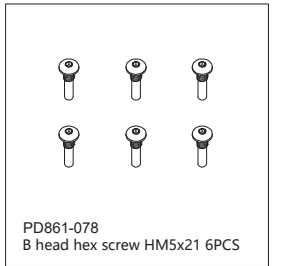
PD861-103
Fr. steering linkage 2PCS



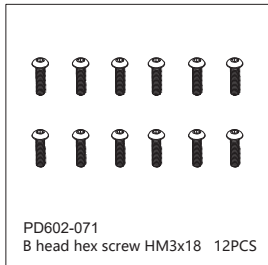
PD501-058
B head hex screw HM4x20 12PCS



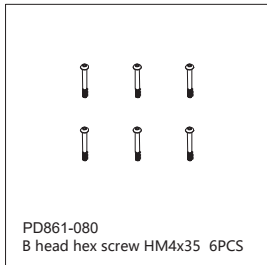
PD502-027
Flat Head Hex Screw HM3x10 12PCS



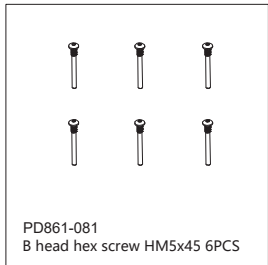
PD861-078
B head hex screw HM5x21 6PCS



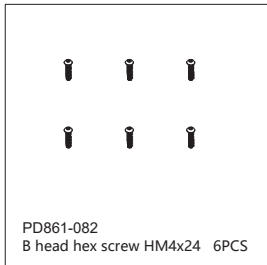
PD602-071
B head hex screw HM3x18 12PCS



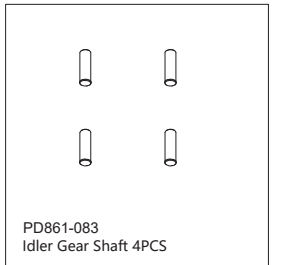
PD861-080
B head hex screw HM4x35 6PCS



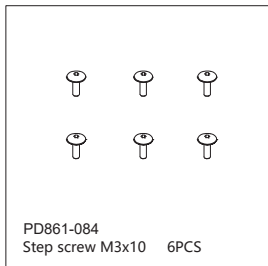
PD861-081
B head hex screw HM5x45 6PCS



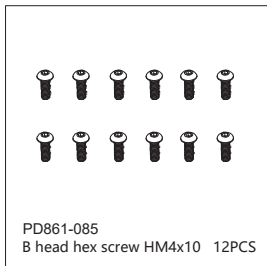
PD861-082
B head hex screw HM4x24 6PCS



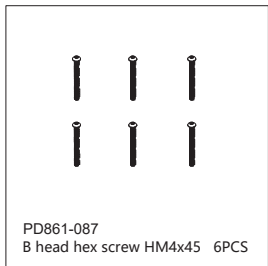
PD861-083
Idler Gear Shaft 4PCS



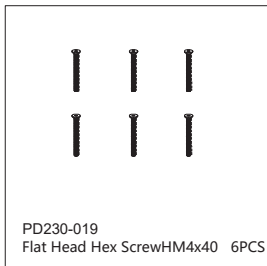
PD861-084
Step screw M3x10 6PCS



PD861-085
B head hex screw HM4x10 12PCS



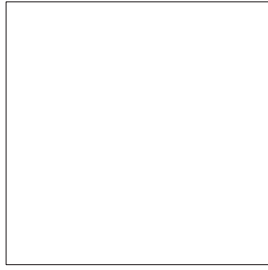
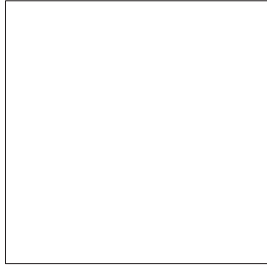
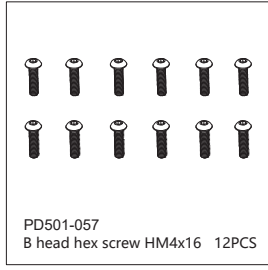
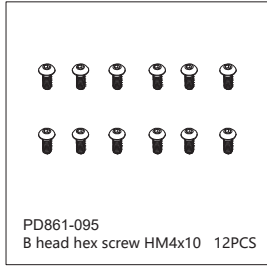
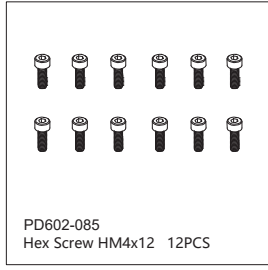
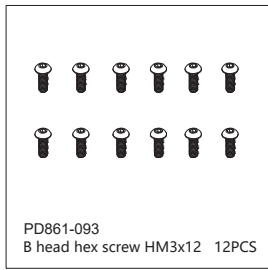
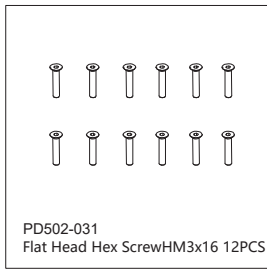
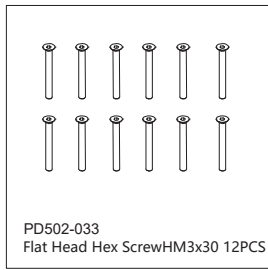
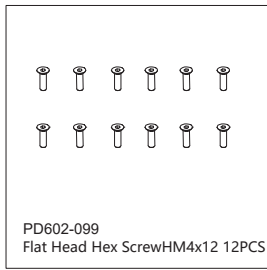
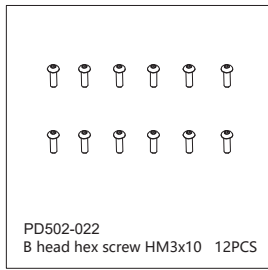
PD861-087
B head hex screw HM4x45 6PCS



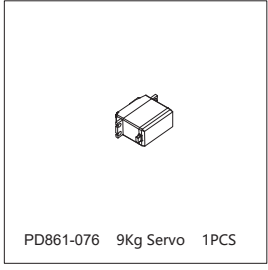
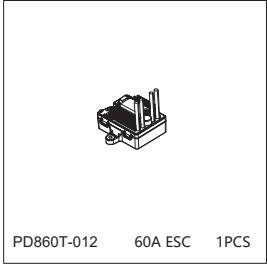
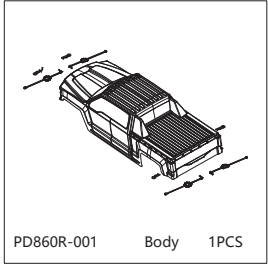
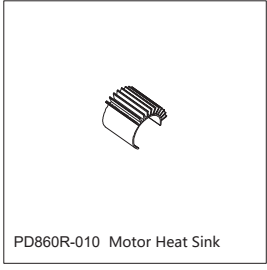
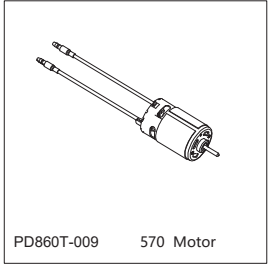
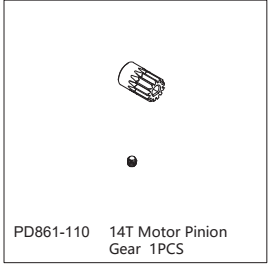
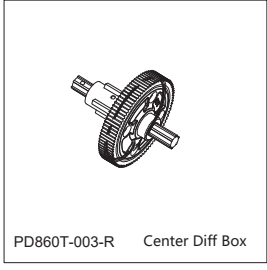
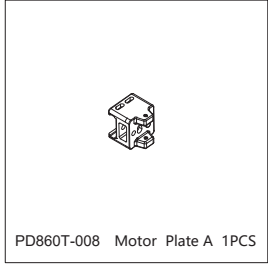
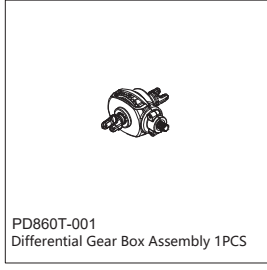
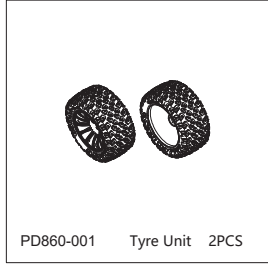
PD230-019
Flat Head Hex Screw HM4x40 6PCS



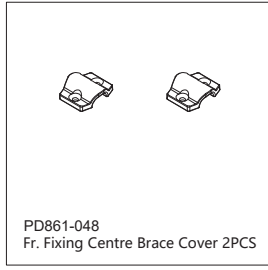
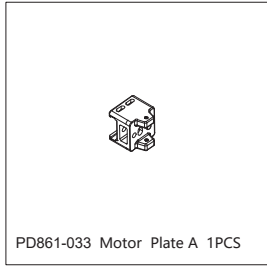
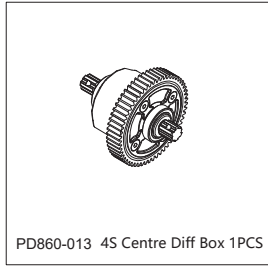
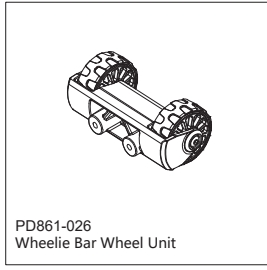
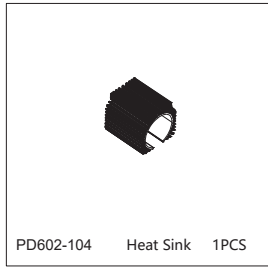
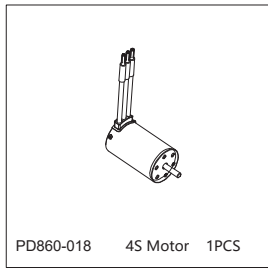
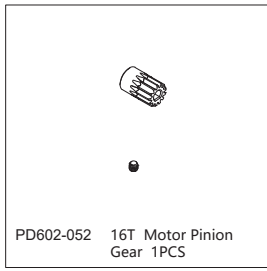
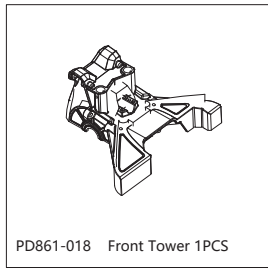
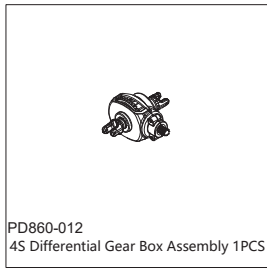
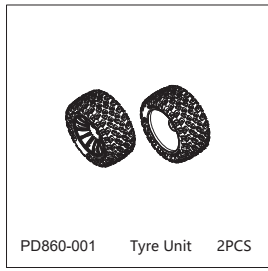
PD861-086
Hex Screw HM2.5x10 12PCS

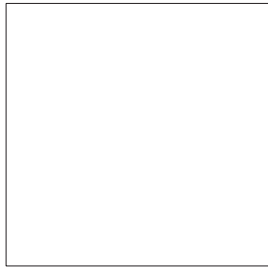
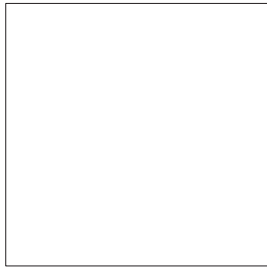
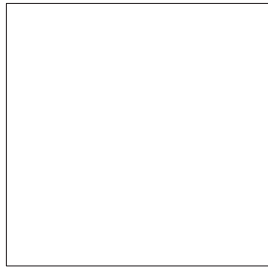
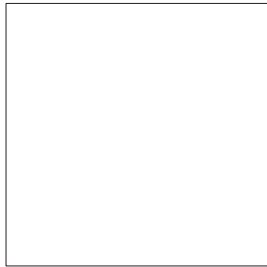
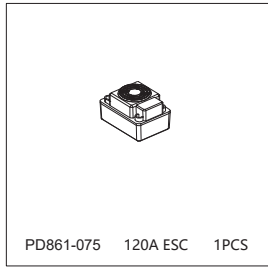
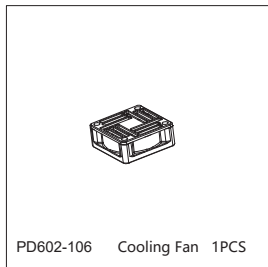
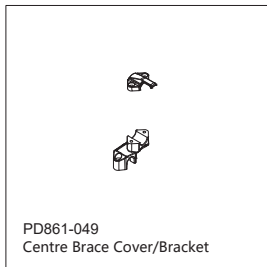
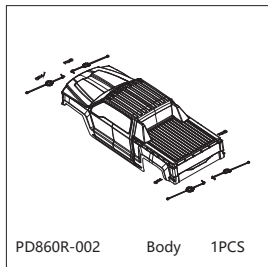
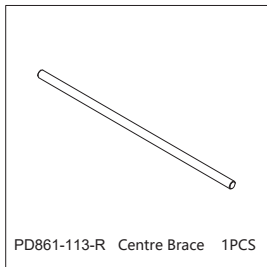
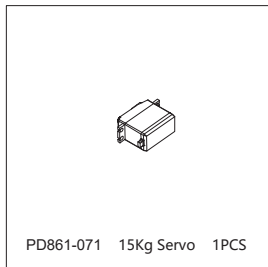


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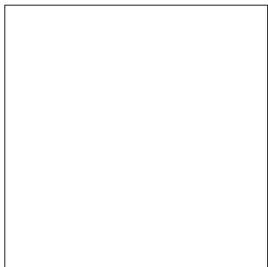
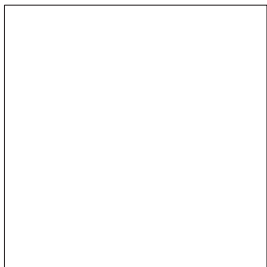
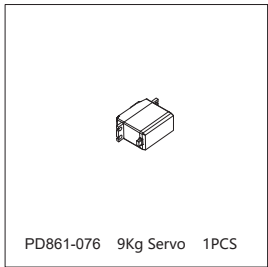
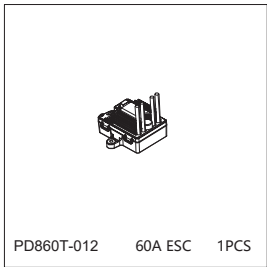
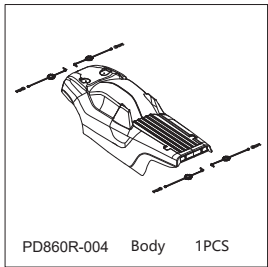
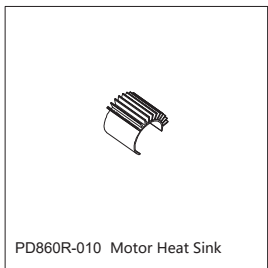
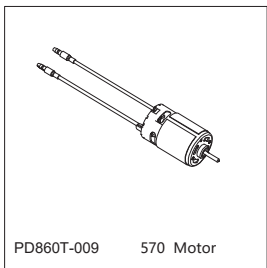
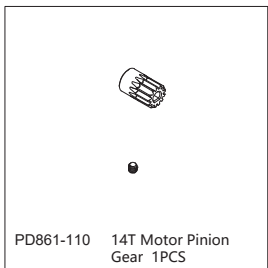
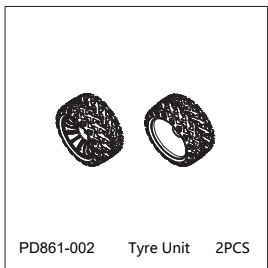


(TRUCK)PD860R-T TK10-4S

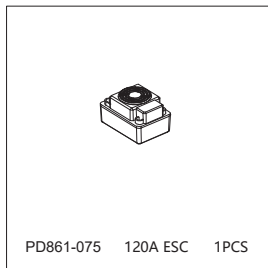
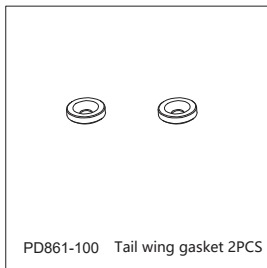
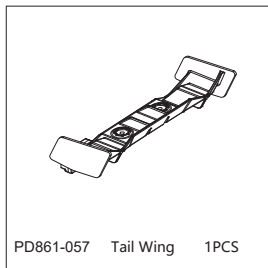
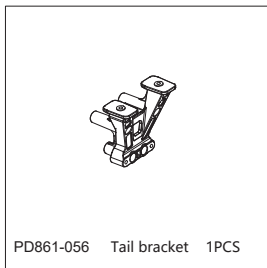
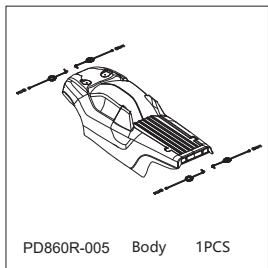
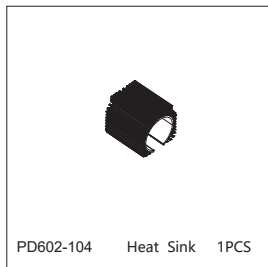
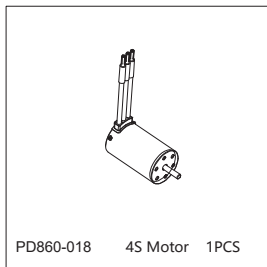
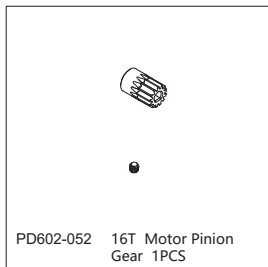
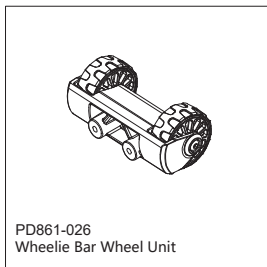
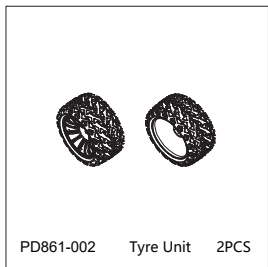


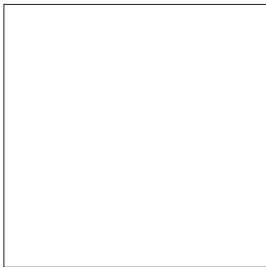
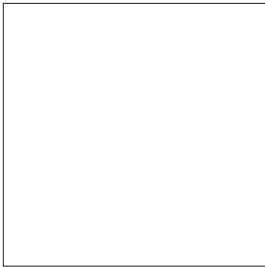
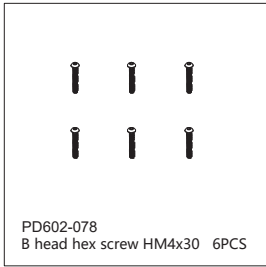
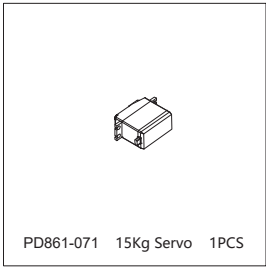


(TRUGGY)PD861T-TR TR10



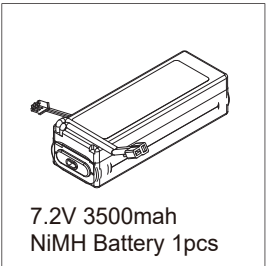
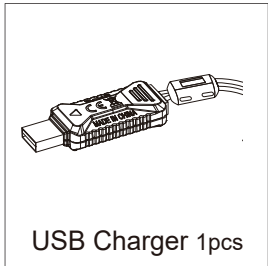
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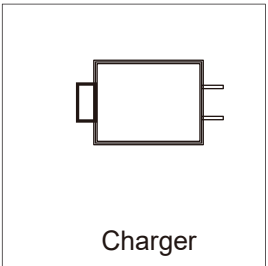
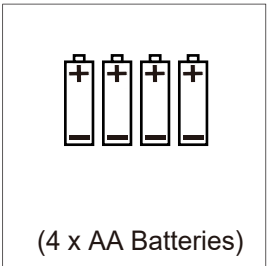


TR10/TK10 BRUSHED

INCLUDED

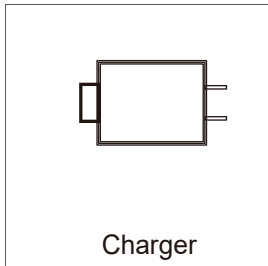
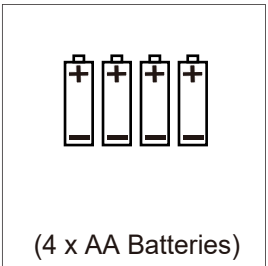
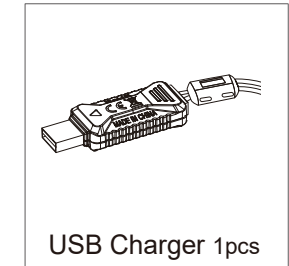


⚠ NOT INCLUDED!



TR10 4S/TK10 4S BRUSHLESS

NOT INCLUDED!



TROUBLESHOOTING

Problem	Possible Cause	Solution
Vehicle does not move	Batteries are incorrectly installed in transmitter	Check transmitter batteries
	Weak, damaged or no drive	Install fresh, charged batteries
	Frayed or broken motor or ESC wires	Replace with new unit
	ESC has shut down due to overheating Red/Blue LED flash quickly.	Stop driving and allow ESC or motor to cool down
	Electric motor is damaged	Replace with new unit
	ESC is damaged or transmitter faulty	Replace with new unit
	Possible damage to transmission/drive-line	Check components and replace
	ESC low voltage cut off has activated to protect batteries. Red/Blue LED flash quickly.	Remove drive battery, leave to cool down if necessary, and re-charge
Vehicle does not reverse	ESC is damaged or transmitter faulty	Replace with new unit
Short runtime	Battery damaged or not fully charged	Check condition, replace or recharge
	Electric motor dirty or damaged	Clean, check condition or replace
	Incorrect ESC battery mode - voltage cut off too high for the battery you are using	Adjust the battery mode of the unit
Sluggish performance	Battery damaged or not fully charged	Check condition, replace or recharge
	Electric motor dirty or damaged	Clean, check condition or replace
	Drivetrain dirty or damaged	Clean, check condition or replace

No control of vehicle or short range	Transmitter batteries are weak or fitted incorrectly	Check transmitter batteries and refit or replace
	Servo wires to receiver loose or connected incorrectly	Reinstall signal wires to the ESC
	Transmitter and receiver unit are not 'bound' correctly	Transmitter and receiver need to be bound
Steering/Throttle operation intermittent	ESC has shut down due to overheating Red/Blue LED flash quickly.	Stop driving and allow ESC or motor to cool down
	Transmitter and receiver unit are not 'bound' correctly	Check for sources of interference and re-bind transmitter/receiver
Vehicle wanders left/right without steering input	Steering trim setting out	Adjust steering trim
	Damaged steering components	Check components and replace
	Drivetrain dirty or damaged	Clean, check condition and/or replace
Throttle operation reversed	Check that the wires from the ESC to the motor are connected correctly	Exchange the connect of wires until throttle operation become normal.
Limited steering angle	Damaged steering components	Check components and replace
Motor does not operate.	Battery voltage is below the LVC setting. Red LED flashes slowly.	Verify the battery is charged.
	The ESC is taking too much load. Blue LED flashes quickly.	Turn off the ESC and allow it to cool before resuming operation. Consider making changes to gear ratio to reduce load to the ESC.
USB Charger does not charge battery	USB Cable Damaged	Check and replace USB Cable if damaged or not working on known source.
	USB Power Adaptor input weak/damaged	Check specification and replace USB Power Adaptor
	Battery or charger damaged	Replace with new unit



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