

1/16-Scale ELECTRIC 4WD RC RACING CAR Manual

www.zdhobby.com



DTK-16



BX-16



MT-16



TX-16

40+ Km/h
Brushed
55 Km/h
Brushless

Just charge the batteries and GO!



[WWW.ZDHOBBY.COM](http://www.zdhobby.com)

ZD RACING

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Made in china

This manual expatiates the structure of the model. In order to better maintain and replace the spare parts, please keep and take it for reference. The user who is not familiar with the assembling, please contact with the wholesaler, nominated model shops and the Special after-sale service outlets.

The actual version is subject to the real standard. It would be varied because of different versions.

ZD RACING

The spare parts, appearance of this model will be tiny revised and changed before totally upgrade into a new version, ZD reserve this rights, and no further notice.

INTRODUCE

Thank you for choosing the ZD racing series products. Our company take the target of offering the top quality and best service. Through attending the competitions and repeated testing the products, constantly enhancing our experience, then further improving the design and quality control. Only for showing the great performance products. This manual including all the important matter before operating the car. We advise studying and knowing the control system before assembling or playing it. As well as the further upgrade and maintenance. Please feel free to consult our authorized dealer, nominated model shop or special after-sale service station if any question refer to the play or use. Our website is: www.zdhobby.com. We are wholeheartedly for your service.

QUALITY ASSURANCE

Our company take the fully responsibility to the quality defect during the manufacturing process. This assurance is only subject to the product only and its spare parts.

These situation below are not included:

The breakage caused by using, assembling or adjustment.
 The other breakage not related to the quality itself.

IMPORTANT STATEMENT

The Model Car is not a toy. It is the casual item combine a lot of high technology products. If using improper may bring serious damage. Please read the manual detailed before using, and keep yourself safe.

Attention: Any operation of the Model car, the manufacturer and dealers are incapable of take the responsibility of the accidents caused by wear out or abnormal assemble.

This product is provided to those who have operation remote control model car experience or a technical personnel in the guidance of the local legal field, in has to ensure the safe and correct operation under the condition of use. Our company will not accept any operation and use the control on any performance and safety responsibility

The RC products are belong to consumable goods, if disassemble, it may cause the spare parts loss. Any use of goods caused by bad or not satisfied, will not be able to replace or return, such as in case of operation maintenance problems, the company designated national distributor model shop and special after-sale service store will provide technical guidance, and special parts supply services.



Warning: because of the neglect of these operating instructions, and use wrongly may cause property damage or serious injury.

Note: because of the neglect of these operating instructions, and use wrongly could be dangerous.

Ban: in any prohibited environment, do not try to operation.

SAFETY GUIDELINES

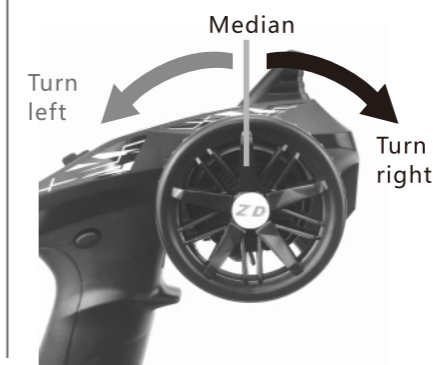
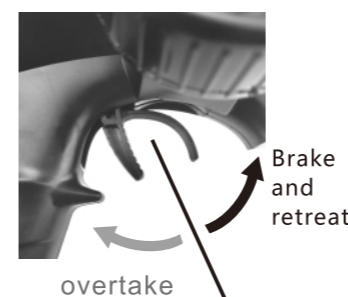
1. Don't operation the models close to open fires or near heat source.
2. Operation must be in the open and dry site .
3. The thunderstorm weather is forbidden to operate this product.
4. Away from the high voltage cables.
5. Some of the parts will be exothermic or burning after operated.
6. Please do not use hand or foreign body contact activities of the parts before cut off the power supply,

7. During the operation, if foreign matter or liquid get into eyes, please timely with plenty of water flush eyes, and immediately consulting professional doctor. As the body is injured, please seek immediate medical attention.
8. Keep out of the reach of children, this is not toy, strongly suggest adult supervision.
9. Placed in ventilated and dry place, do not use, take the battery out.
10. The product items do not diet or swallowed.

RADIO-Part Number

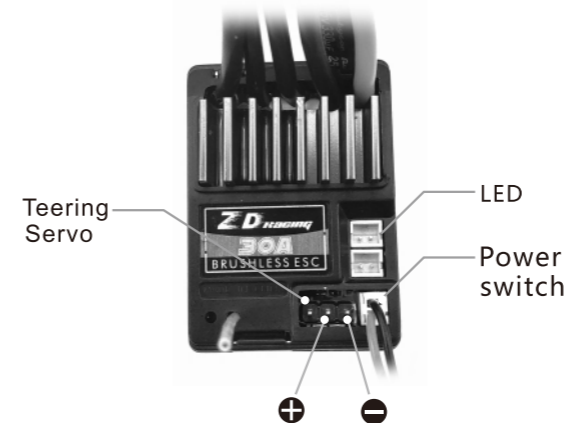


1	TH (throttle) trigger
2	ST (rudder) fine-tuning
3	Power indicator
4	ST (rudder) forward / reverse rudder switch
5	Power switch
6	ST (rudder) disc
7	TH (throttle) forward / reverse rudder switch
8	AUX
9	Battery cartridge

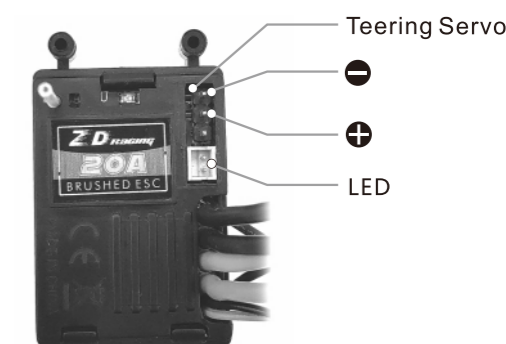


1. Put 2 AA batteries into the battery tank (Please note the Positive and Negative)
2. If the remote control indicator flashes, it indicates that the power supply is insufficient

Brushless ESC receiver



Brushed ESC receiver



CHARGING THE BATTERY PACK

- Once the battery ready to be charged, first plug the AC quick charger into the outlet of AC power source, and then connect the battery input/output harness to the charger.
- Continued to monitor the battery as it is being charged. As soon as the battery is fully charged, disconnect the battery from the charger plug (Over-charging or charging incorrectly using inadequate chargers may cause the battery pack to become dangerously hot).
- For best results, let the battery pack cool before charging. Heat may prevent the battery pack from charging to full capacity and also decreases the performance of the battery.

Li-PO battery



Ni-MH battery



BATTERIES

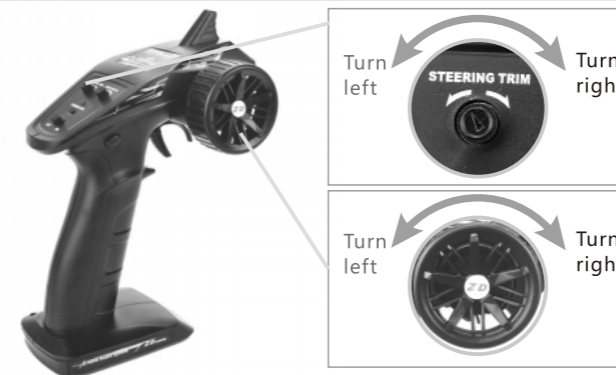
Lithium Polymer (Li-Po) batteries are becoming popular for use in R/C models due to their compact size, high energy density, and high-current output. However, these types of batteries require special care and handling procedures for long life and safe operation.

Warning: Lithium Polymer (Li-Po) batteries are intended only for advanced users that are educated on the risks associated with Li-Po battery use. THUNDER TIGER/ACE RC does not recommend that anyone under the age of 16 use or handle Li-Po battery packs without the supervision of a knowledgeable and responsible adult.

- Important:**
- Do not use NiCd/Ni-MH battery chargers for Li-PO batteries. If you do not use a special charger for Li-PO battery, they will be damaged.
 - If the battery is swollen or damaged, it is forbidden to use.
 - Do not charge for long periods when left unattended.

Please note! Consumers for use or installation of lipo battery in the remote control model belongs and cause any Direct or indirect damages, our company will not bear any legal liability.

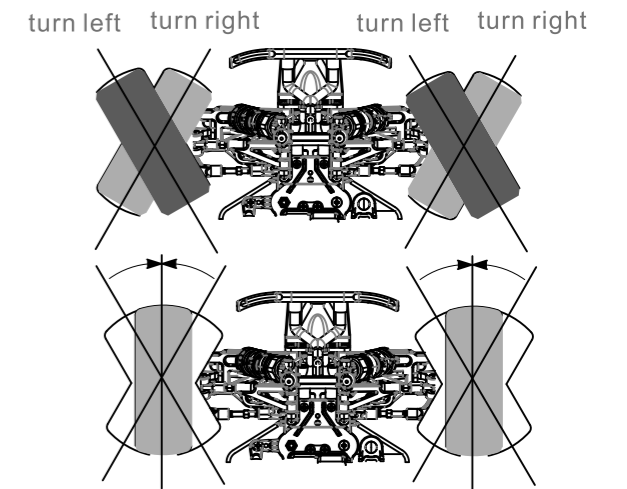
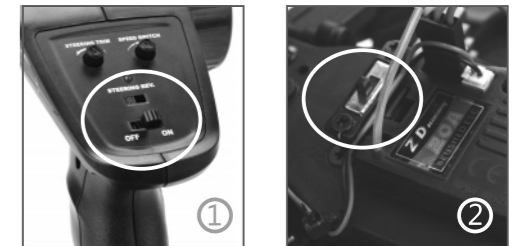
Steering operation guide



- slowly rotating around the steering wheel, the car will be slow to the right or to the left accordingly (when there is no consistent please toggle on the remote control ST direction and rudder switch).
- when the cars can't run straight, you can adjust to direction of the remote control on the median knob, until the vehicle can run straight.

Racing Steps

- Turn on the remote control switch, the power indicator flashes.
- Connect the power cord and turn on the ESC switch, automatic frequency matching at startup, and the power light stops flashing
- Turn the steering wheel and throttle trigger, everything is normal, you can go running.
- Finish racing, Turn off the ESC and off the radio, disconnect the power plug.

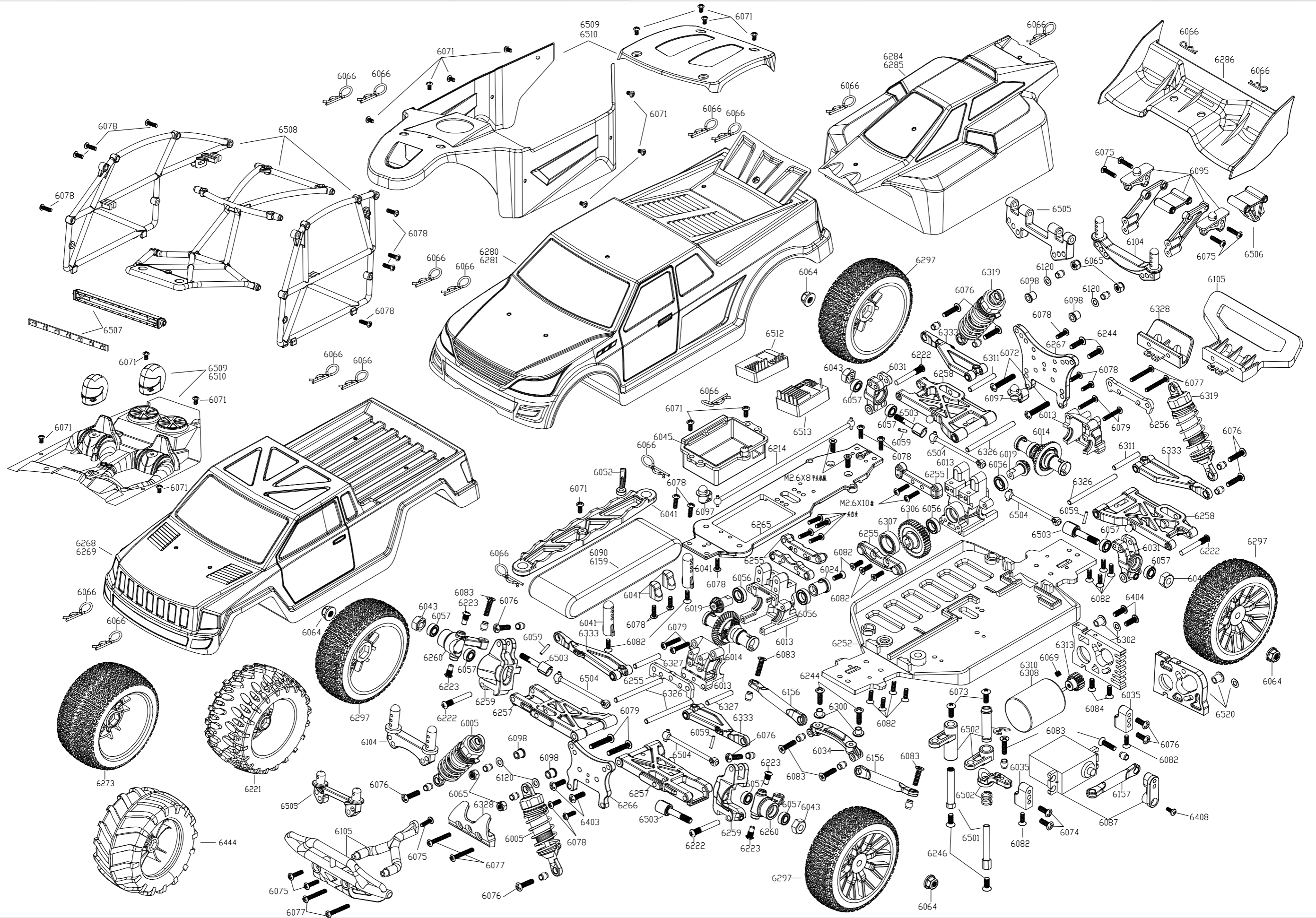


- Adjust the Median trimming to keep the front wheel in the center position
- When testing the diversion of the car, please keep the front wheel hang in the air.

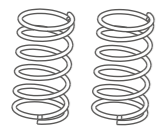
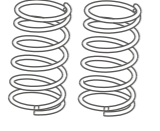
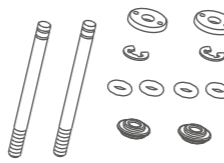
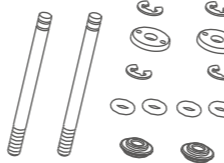
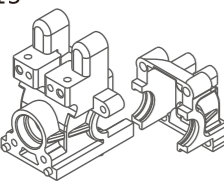
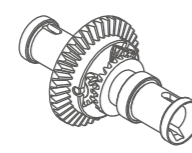
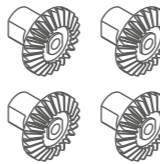
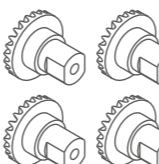

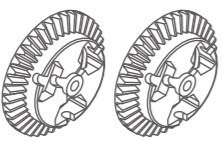

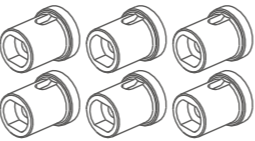
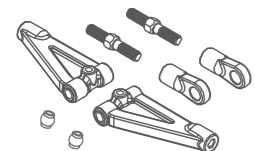
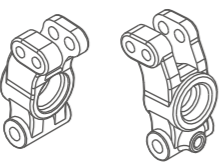
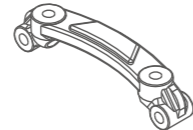
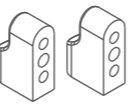
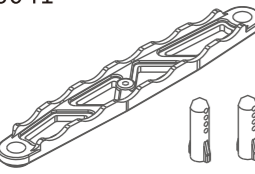
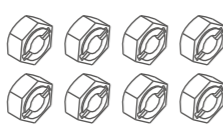
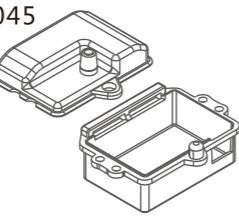
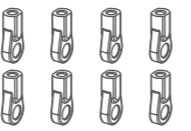
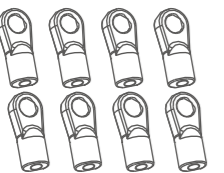
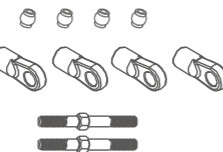
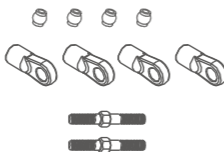
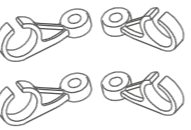
TROUBLESHOOTING

If you have trouble starting or keeping your love car running, here's a quick checklist of what to look for first.

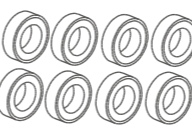
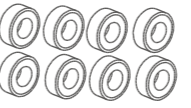
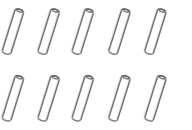

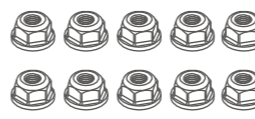

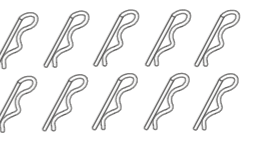

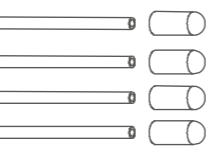

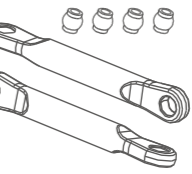
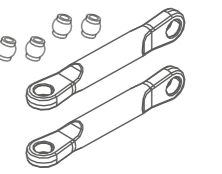
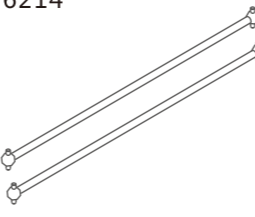

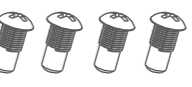
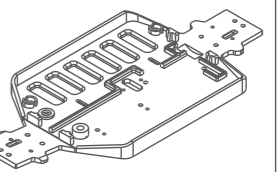


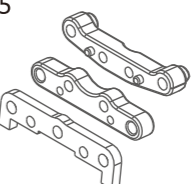
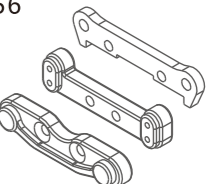
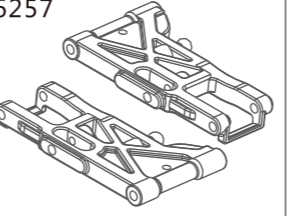
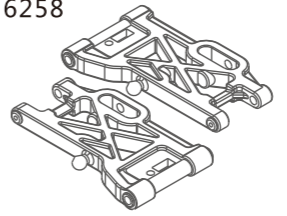
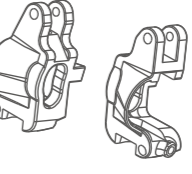
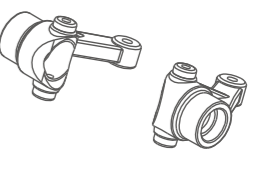
Description	Problem	Solution
Car dies or slows	Speed control over heats	Let it cool and try later
Car is glitching	Car has a problem on power	Check for loose wires, dead radio batteries or loose crystals. Check motor capacitors, loose wires or crystals.
Motor is overheats	Gear mesh is too tight	Let motor cool and check recommended gearing for motor type. Reset gear mesh
No power	Battery is discharged	Charge battery Charge battery
No throttle	Motor not plugged in Motor failure No throttle, only steering	Plug motor in Replace motor A-T-L function works; turn off the vehicle first and follow the guide to turn on the radio. (Radio first, vehicle second!!!)
	Motor keeps running	Check if the throttle trim knob is in neutral position.
No steering	Servo not plugged in Locked up steering linkage Servo failure	Plug servo into ESC unit Free up steering linkage Replace servo
Reversing	Goes backwards when you pull the trigger or goes right when turning the wheel left	Check throttle / steering reversing switches on transmitter



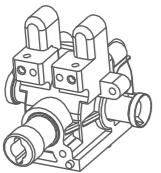
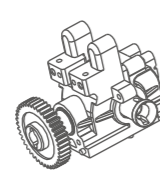
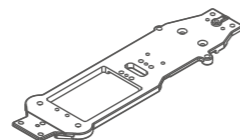

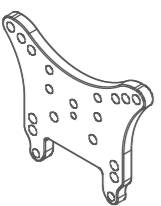
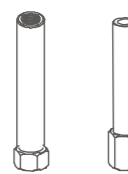
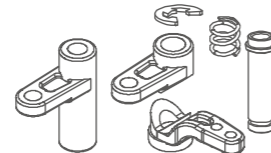
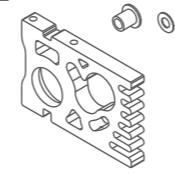
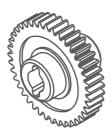
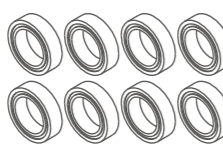
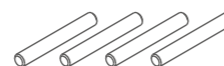
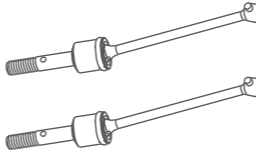
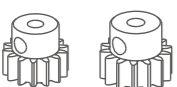
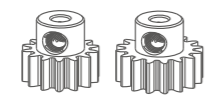
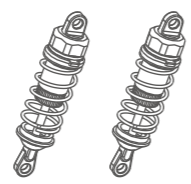
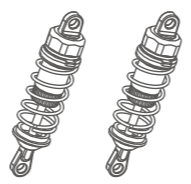
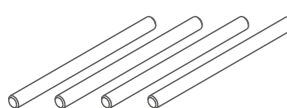
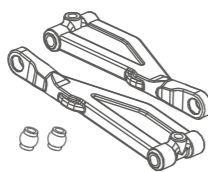
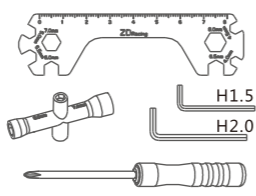
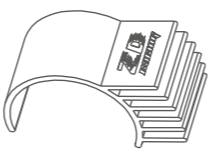
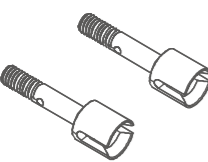
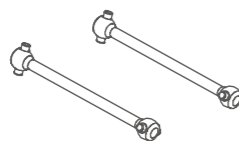
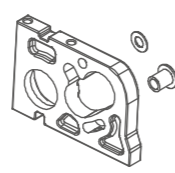
GENERAL REPLACEMENT PARTS

6007  Front Shock Spring	6008  Rear Shock Spring	6009  Front Shock Shafts	6010  Rear Shock Shafts
6013  Gear Box	6014  Differential Gear Set	6015  24T-01 Gears	6016  24T-02 Gears
6017  12T Gears	6018  38T Differential Gears (Die-cast)	6019  14T Gears (Die-cast)	6024  Transmission Cup Set
6025  Upper Suspension Set	6031  Rear Hub Carriers	6034  Steering Connecting Plate	6035  Servo Mounts
6041  Battery Tray and Posts	6043  Wheel Hex Nuts	6045  Receiver Box	6047  Rear Shock Absorber Ball Heads
6048  Ball Heads	6050  Steering Rod Sets	6051  Servo Rod Sets	6052  Clips

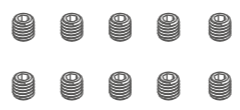
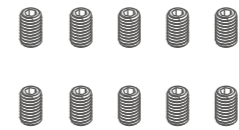

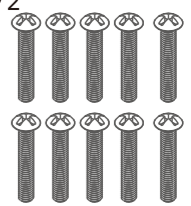
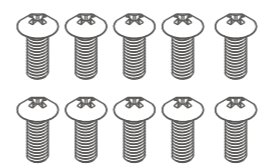
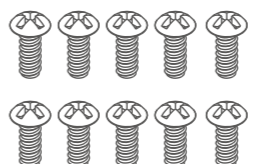
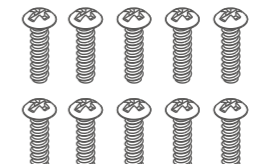
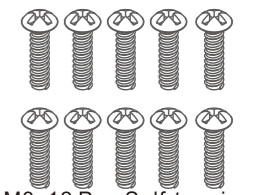
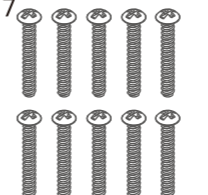
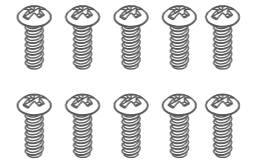
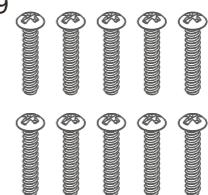
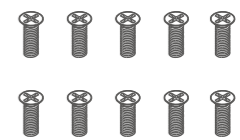
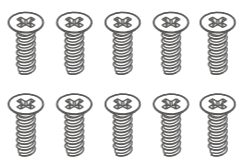

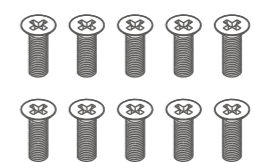
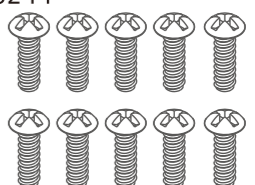
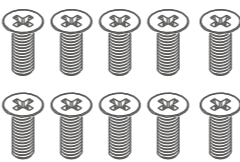

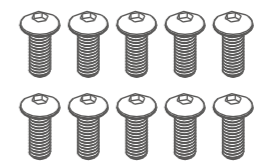
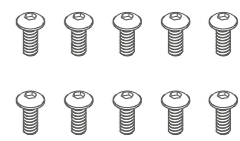
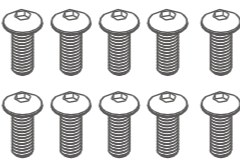
GENERAL REPLACEMENT PARTS

6056  Bearing Set φ10xφ6x3	6057  Bearing Set φ8xφ4x3	6059  Pin Set φ1.5x8	6063  E-Ring Set 2.5x0.4T
6064  M4 Locknut Set	6065  M3 Locknut Set	6066  R-Pin Set φ1.2	6067  Ball Head Set
6086  Antenna Tubes	6120  Shock Absorber Washer Set	6125  Steering Rod Sets	6132  Servo Rod Sets
6214  Horizontal Drive Shafts	6222  Lower Suspension Pins	6223  Steering Screw	6252  Chassis (plastic)
6253  Front Shock Plate (Aluminum)	6254  Rear Shock Plate (Aluminum)	6255  Front Suspension Arm Mounts	6256  Rear Suspension Arm Mounts
6257  Front Suspension Arm Set	6258  Rear Suspension Arm Set	6259  C-mounts	6260  Steering Arms

GENERAL REPLACEMENT PARTS

6261  Front Differential Gear Set	6262  Rear Differential Gear Set	6265  Upper Deck(plastic)	6266  Front Shock Plate(Plastic)
6267  Rear Shock Plate(Plastic)	6501  Steering Shafts	6502  Steering Set	6302  Motor Mount
6306  40T Gears	6307  Bearing Set φ15xφ10x4	6311  Pin Set φ3x22.4	6312  Universal Drive Shaft
6313  Motor Gear11T\13T	6314  Motor Gear14T\16T	6318  Front Shock Set	6319  Rear Shock Set
6326  Pin Set φ3x41.5	6333  Upper Suspension Set	6346  Simple tool kit	6463  Brushless motor heat sink
6503  Wheelshafts	6504  Drive shafts	6520  Plastic Motor mount	

GENERAL REPLACEMENT PARTS

6069  M3x3 Set Screw	6070  M3x4 Set Screw	6071  M2.6x6 Pan Self-tapping Screw Set	6072  M3x18 Pan Head Screw Set
6073  M3x8 Pan Head Screw Set	6074  M3x8 Pan Self-tapping Screw Set	6075  M2.6x10 Pan Self-tapping Screw Set	6076  M3x12 Pan Self-tapping Screw Set
6077  M2.6x18 Pan Self-tapping Screw Set	6078  M2.6x8 Pan Self-tapping Screw Set	6079  M2.6x14Pan Self-tapping Screw Set	6080  M2x6 Flat Head Self-tapping Screw Set
6082  M2.6x8 Flat Head Self-tapping Screw Set	6083  M3x12 Flat Head Self-tapping Screw Set	6084  M2.6x8 Flat Head Screw Set	6244  M3x10 Pan Self-tapping Screw Set
6246  M3x8 Flat Head Screw Set	6249  M2.6x6Flat Head Self-tapping Screw Set	6404  M3x8 Button Head Screw	6408  M2x5 Button Head Screw
6423  M2.5x8 Button Head Screw			

REPLACEMENT PARTS

6090 7.4V 1500mAh 15C Li-Po	6091 40A Brushless ESC	6215 Charger	6310 B2435 Brushless Motor 3300KV
6159 7.2V 1200mAh Ni-MA Battery	6160 30A Brushed ESC	6161 Charger	6308 Brushed Motor 380
6087 2.2kg Servo	6512 	6513 	6514
6515 	6516 	6517 	

BUGGY (BX-16) REPLACEMENT PARTS

6328 Front/Rear Bumper	6295 Tyre+Inserts front	6296 Tire Rim Set	6297 Tire Set
6097 Body Post Set	6095 Tail Wing Bracket Set	6098 Shock Absorber Washer Set	6286 Tail White

6287 Tail Black	6288 Tail Yellow	6298 Body Transparent (PVC)	6284 Body Black (PVC)	6285 Body Yellow (PVC)
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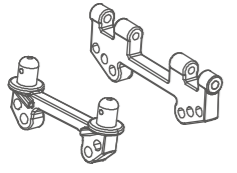
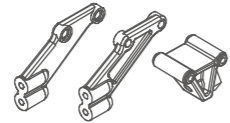
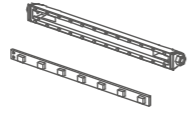
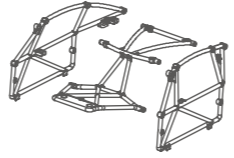
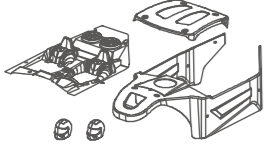
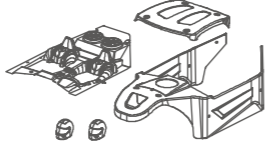
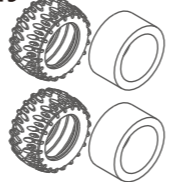
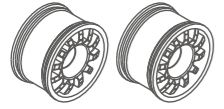
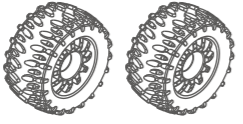
TRUCK (MT-16) REPLACEMENT PARTS

6105 Front/Rear Bumper	6219 Tyre+Inserts front	6220 Tire Rim Set	6221 Tire Set
6104 Body Post Set	6042 Body Transparent (PVC)	6268 Body Yellow (PVC)	6269 Body Army green (PVC)

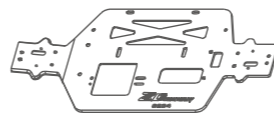
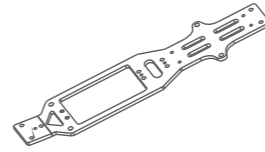
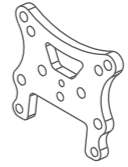
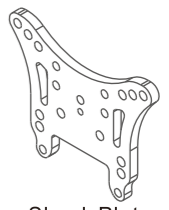
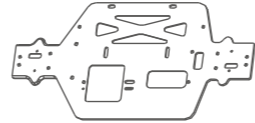
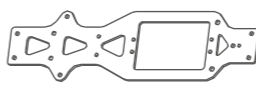
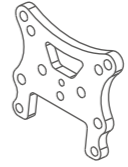
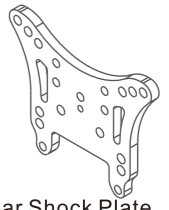
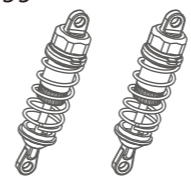
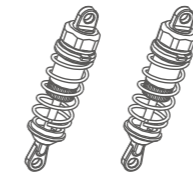
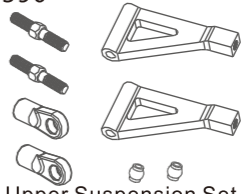
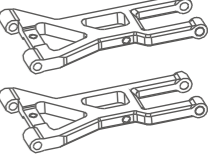
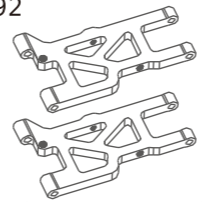
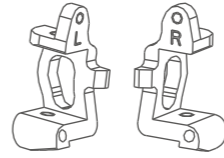
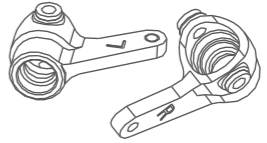
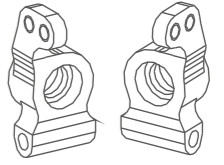
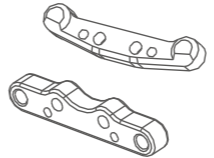
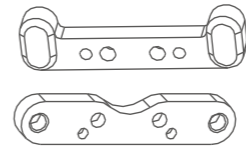
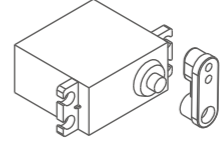

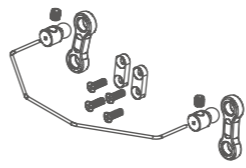
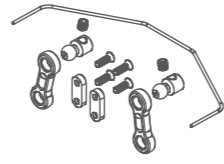
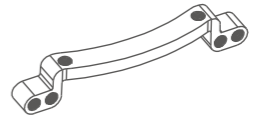
TRUGGY (TX-16) REPLACEMENT PARTS

6105 Front/Rear Bumper	6271 Tyre+Inserts front	6272 Tire Rim Set	6273 Tire Set
6104 Body Post Set	6280 Body Wine, green (PVC)	6281 Body silver (PVC)	6274 Body Transparent (PVC)

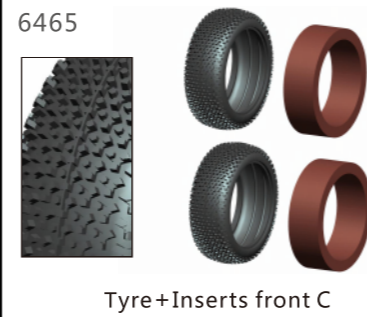
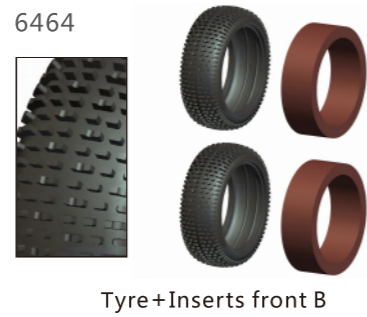
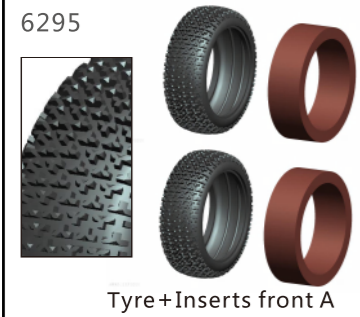
DESERT TRUCK (DTK-16) REPLACEMENT PARTS

<p>6505</p>  <p>Body Post Set</p>	<p>6506</p>  <p>Spare tire fixed seat</p>	<p>6507</p>  <p>LED headlamp unit</p>	<p>6508</p>  <p>To protect the rack</p>
<p>6509</p>  <p>Body Red (PVC)</p>	<p>6510</p>  <p>Body Green (PVC)</p>	<p>6511</p>  <p>Body Transparent (PVC)</p>	<p>6219</p>  <p>Tyre+Inserts front</p>
<p>6220</p>  <p>Tire Rim Set</p>	<p>6221</p>  <p>Tire Set</p>		

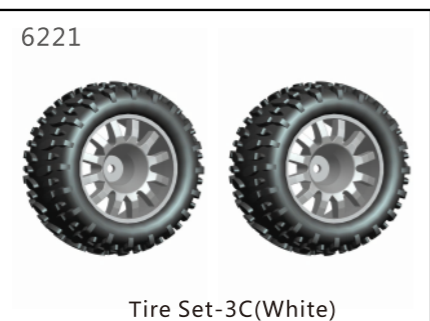
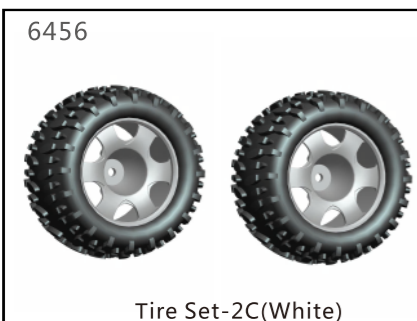
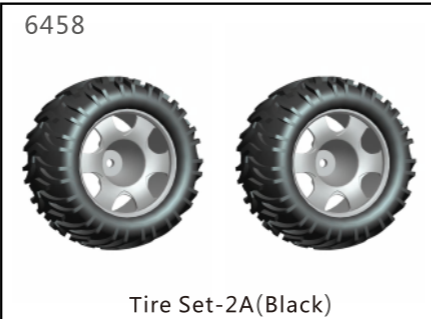
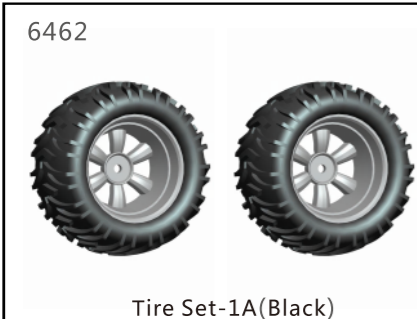
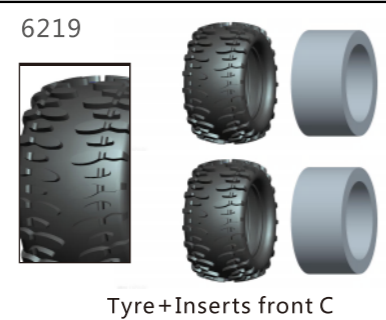
GENERAL OPTIONAL UPGRADE PARTS

<p>6234</p>  <p>Chassis(7075 Aluminum)</p>	<p>6235</p>  <p>Upper Deck(7075 Aluminum)</p>	<p>6236</p>  <p>Front Shock Plate (7075 Aluminum)</p>	<p>6237</p>  <p>Rear Shock Plate (7075 Aluminum)</p>
<p>6337</p>  <p>Chassis(carbon fiber)</p>	<p>6338</p>  <p>Upper Deck(carbon fiber)</p>	<p>6341</p>  <p>Front Shock Plate (carbon fiber)</p>	<p>6339</p>  <p>Rear Shock Plate (carbon fiber)</p>
<p>6335</p>  <p>Front Shock Set(metal)</p>	<p>6336</p>  <p>Rear Shock Set(metal)</p>	<p>6390</p>  <p>Upper Suspension Set (metal)</p>	<p>6391</p>  <p>Front Suspension Arm Set (metal)</p>
<p>6392</p>  <p>Rear Suspension Arm Set (metal)</p>	<p>6393</p>  <p>C-mounts(metal)</p>	<p>6394</p>  <p>Steering Arms(metal)</p>	<p>6395</p>  <p>Rear Hub Carriers(metal)</p>
<p>6263</p>  <p>Front Suspension Arm Mounts(metal)</p>	<p>6264</p>  <p>Rear Suspension Arm Mounts(metal)</p>	<p>6230</p>  <p>Digital Servo 2.2kg</p>	<p>6231</p>  <p>Import Ball bearing</p>
<p>6324</p>  <p>Front Sway Bar Set</p>	<p>6325</p>  <p>Rear Sway Bar Set</p>	<p>6396</p>  <p>Steering Connecting Plate(metal)</p>	

BUGGY (BX-16) SPECIAL MATCHING TIRES



TRUCK (MT-16) SPECIAL MATCHING TIRES



TRUGGY (TX-16) SPECIAL MATCHING TIRES

