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SPYDER

1/10 4WD READY-TO-CRAWL
ELECTRIC-POWERED SUPERSIZE
ROCK CRAWLER

INSTRUCTION MANUAL

SAFETY INSTRUCTIONS

- This hi-performance R/C model is not a toy!
- Read this instruction manual thoroughly before commencing assembly
- This rock crawler model is recommended for users over the age of 14
- First time model builders should seek the help of an experienced modeller before commencing assembly
- Take appropriate precautions prior to operation of this model – you are responsible for its popper assembly and its safe operation

SPECIFICATIONS:

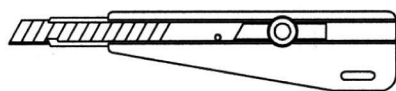
WIDTH:	353MM
HEIGHT:	175MM
WHEELBASE:	310-350MM
TYRE SIZE:	138 x 65MM
ARTICULATION:	80°

FEATURES:

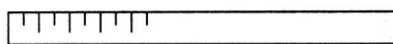
- FACTORY ASSEMBLED AND READY-TO-CRAWL
- 2 CHANNEL R/C SYSTEM
- CRAWLING FWD/REV ELECTRONIC SPEED CONTROL
- HIGH TORQUE 70T MOTOR
- HIGH TORQUE 9KG METAL GEARED STEERING SERVO
- TRUE CHROME PLATED BEADLOCK WHEELS - NO GLUEING!
- SHAFT DRIVEN 4WD
- SLIPPER SYSTEM FOR TRANSMISSION PROTECTION
- CUSTOM BLUE ANODISED ALUMINIUM PARTS
- OIL FILLED, THREADED BODIES SHOCK ABSORBERS
- QUICK RELEASE STICK PACK BATTERY SYSTEM

Required equipment for operation

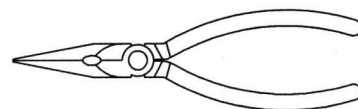
1. Tools required for building and maintenance:



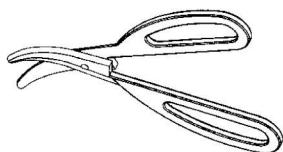
● Hobby knife



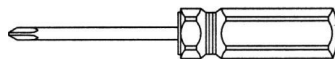
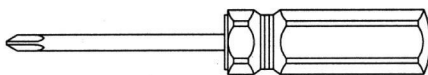
● Precision ruler or caliper



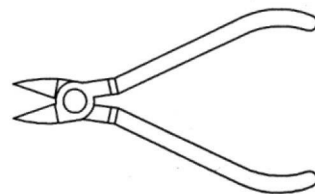
● Needle nose pliers



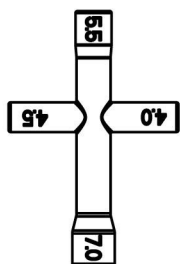
● Lexan scissors



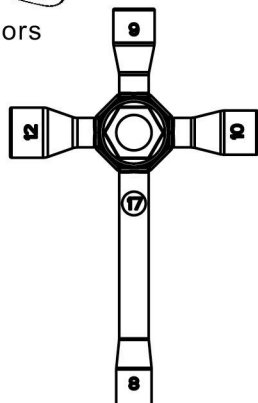
● Flat and Philips screwdriver



● Wire cutters



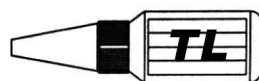
● Cross wrench



● Cross wrench



● CA glue & rubber cement



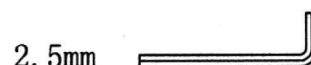
● Thread locking compound



1.5mm



2.0mm



2.5mm

● Hex wrench

WARNING!

Do not use a power screw driver to install screws into nylon or plastic materials. The fast locking may heat up the screws being installed that may break the molded parts or strip the threads during installation.

2. Additional items needed for operation:



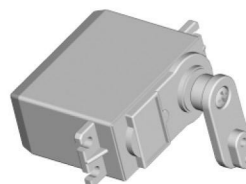
FTX5985
Transmitter



FTX5986
Receiver



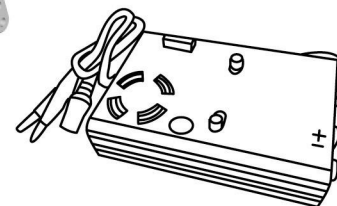
FTX5992
Esc for Rock Crawler



ET0012
9Kg Servo



8pcs AA alkaline
batteries for
transmitter



ET0205
Quick charger

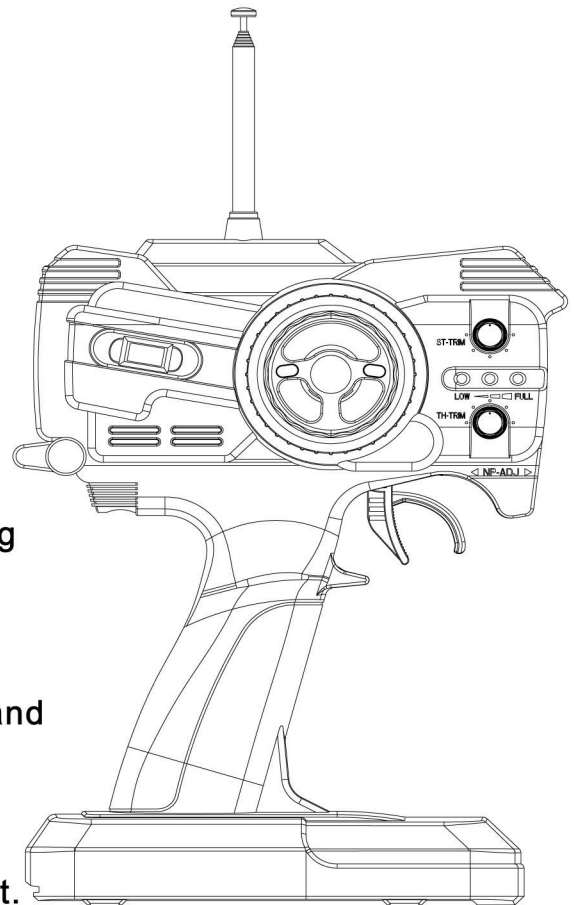
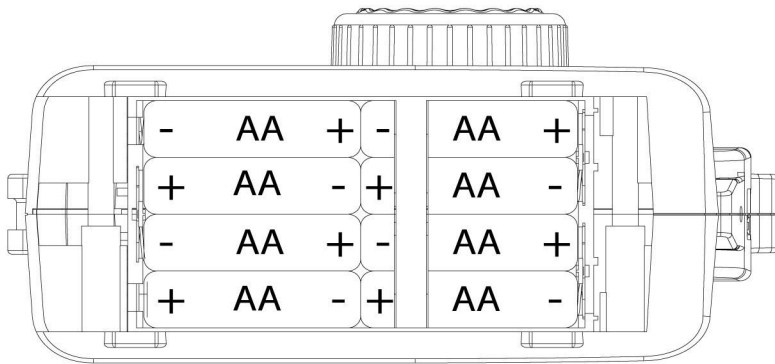
IMPORTANT!!!

Check all the screws are tight before using the car.
Use Thread Lock on all screws that may work loose.

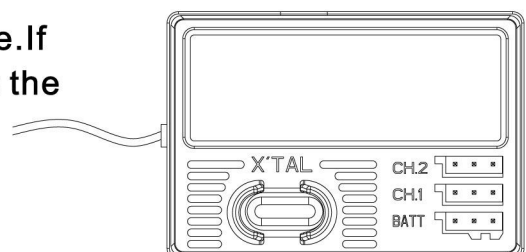
Please read the instructions carefully before starting the car.

1. Please assemble and install away from children as the product includes small and sharp parts.
2. Do not run the RC Car on public streets or highways as it may cause serious accidents, personal injuries and/or damage to property.
3. During and after operation, the engine/motor, exhaust and battery pack will become HOT, therefore please do not touch until they have cooled down.
4. Please ensure all Racers in the vicinity are using different radio frequencies.

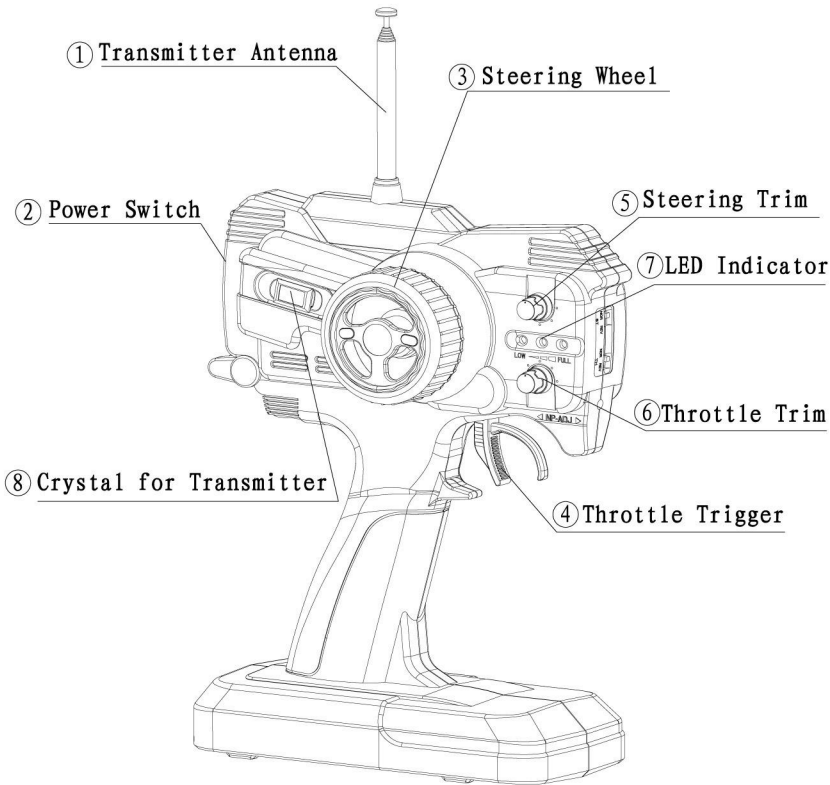
Transmitter Preparation



- Install eight "AA" batteries into transmitter, making sure the polarity is correct.
- Insert the antenna into the top of the transmitter and tighten.
- Turn the transmitter on and check the battery light.
- If all LED's light up, the batteries are acceptable. If only the red LED lights up, immediately replace the batteries.



GLOSSARY OF TRANSMITTER



- ① The transmitter antenna is for transmit the radio waves.
- ② The power switch is for switching the power on/off.
- ③ The steering wheel is for controlling the direction of right/left.
- ④ The throttle trigger is for controlling the throttle and brake.
- ⑤ The steering trim is for adjusting the position of neutral.(right/left)
- ⑥ The throttle trim is for adjusting the carb in idle position.
- ⑦ The LED indicator is for showing the remaining amount of the battery.when turn on the power switch.
- ⑧ Crystal for transmitter is for changing the radio frequency by replacing the crystal.

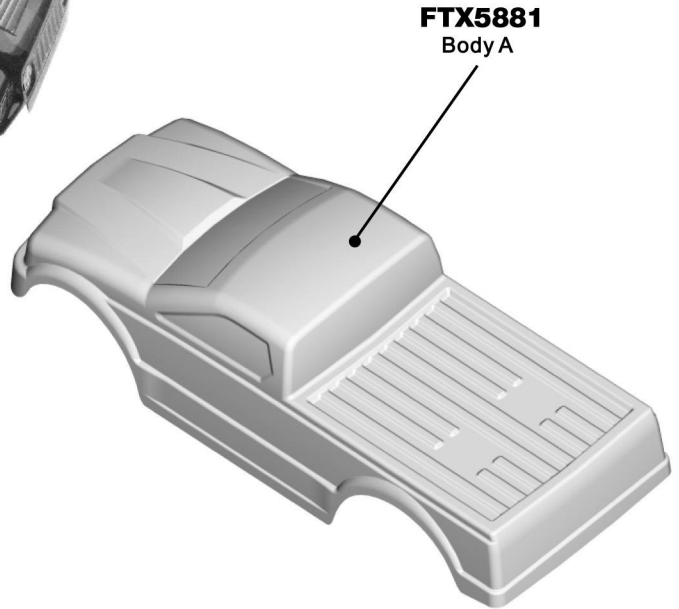
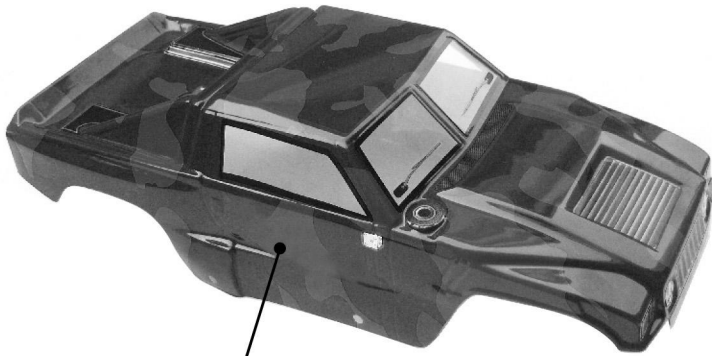
BEFORE OPERATING

- Install the receiver antenna.
- Install the transmitter antenna.
- Loading the battery into the transmitter.
- Install the charged battery into the truck.

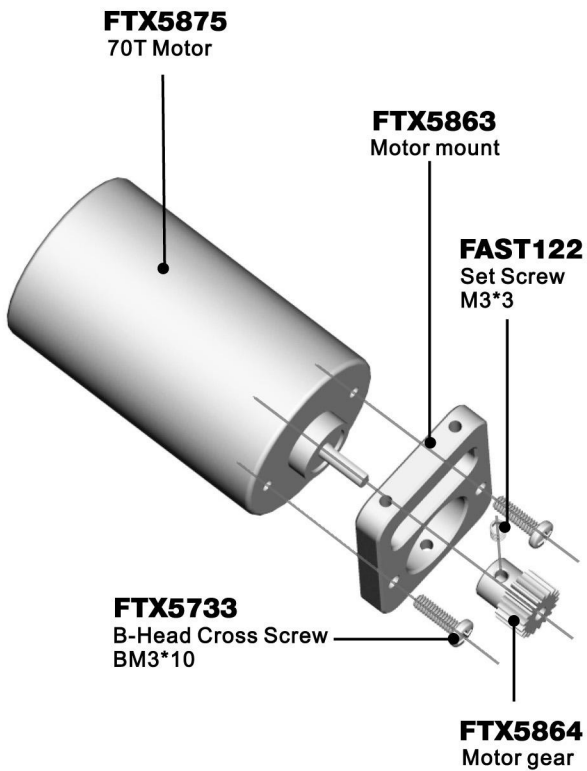
RC OPERATING PROCEDURES

1. Please pull out the transmitter antenna and then turn on the power switch first, before turning on the receiver.
2. Please raise the tires off the ground and check the control is responding.
3. Hold the throttle trigger to let truck run. If it doesn't work please adjust the throttle servo and trim.
4. Replace the battery, when speed drops.
5. When you finish running, please turn the receiver switch off first, and then the transmitter.
6. Please make sure the battery is disconnected and remove the battery after finishing use.

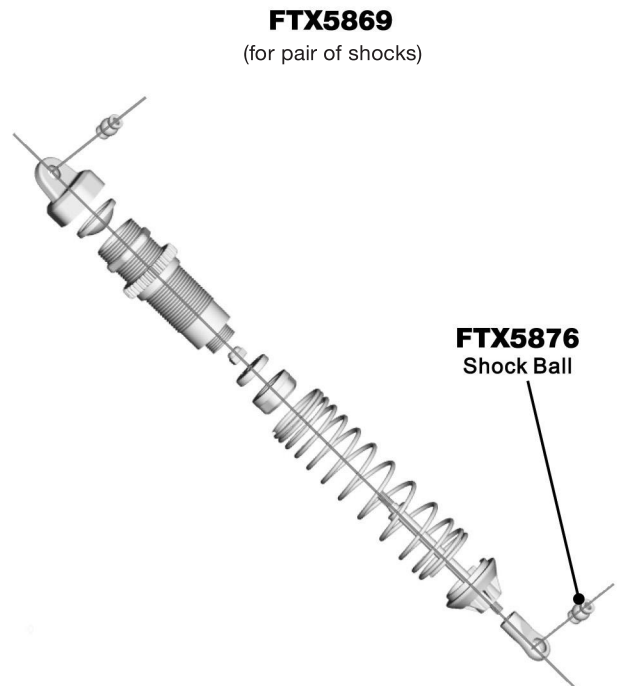
STEP 1-1 BODY



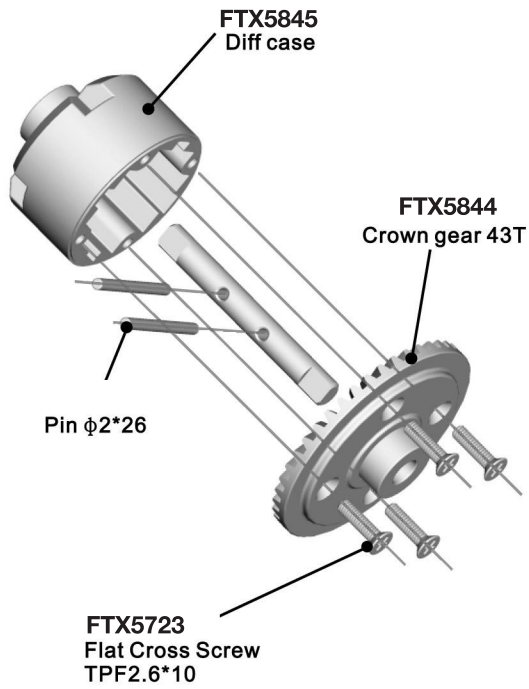
STEP 2-1 MOTOR ASSEMBLY



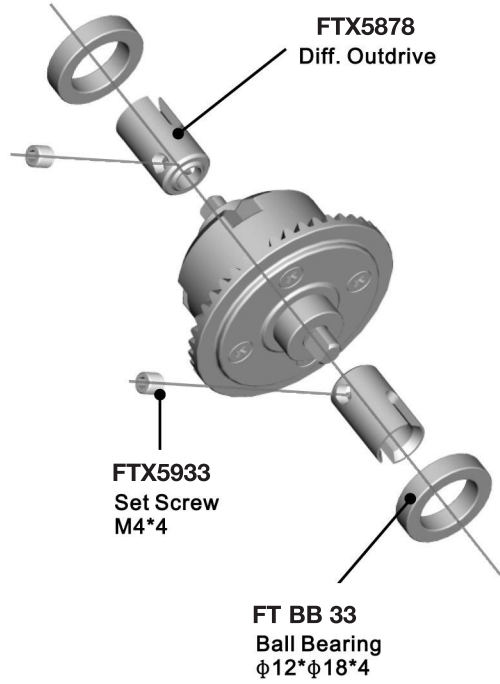
STEP 3-1 SHOCK ASSEMBLY



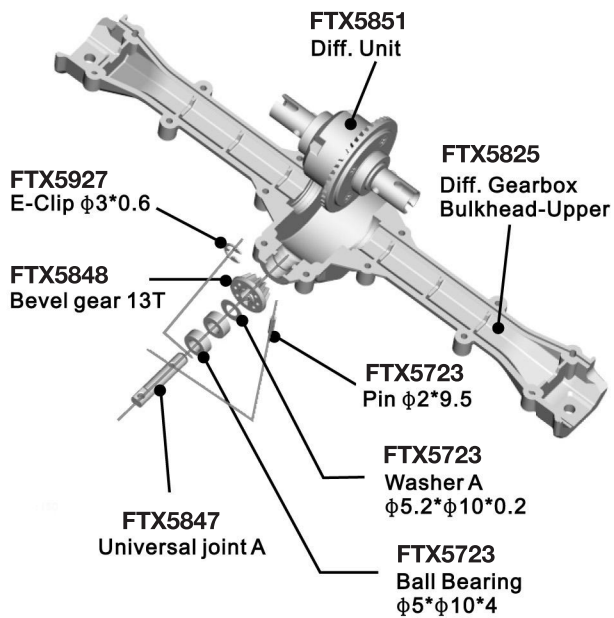
STEP 4-1 DRIVE ASSEMBLY



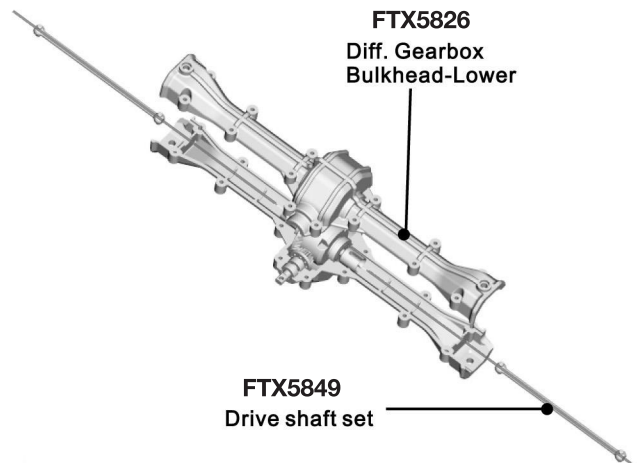
STEP 4-2 DRIVE ASSEMBLY



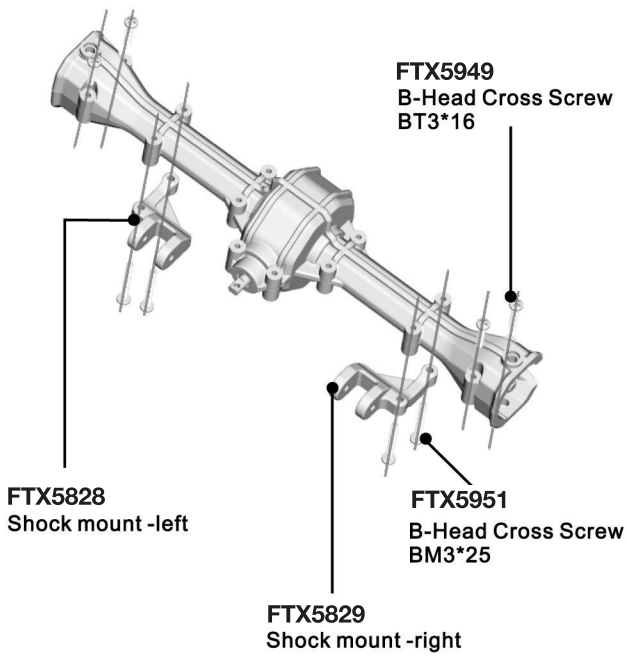
STEP 5-1 FRONT & REAR AXLE ASSEMBLY



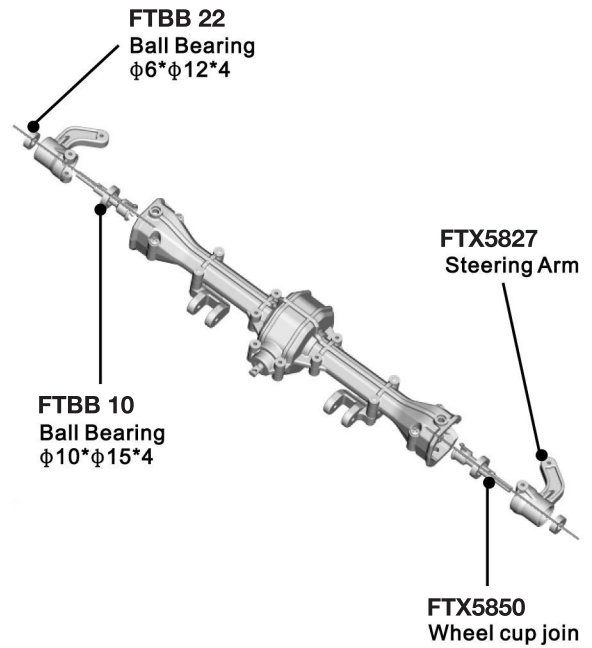
STEP 5-2 FRONT & REAR AXLE ASSEMBLY



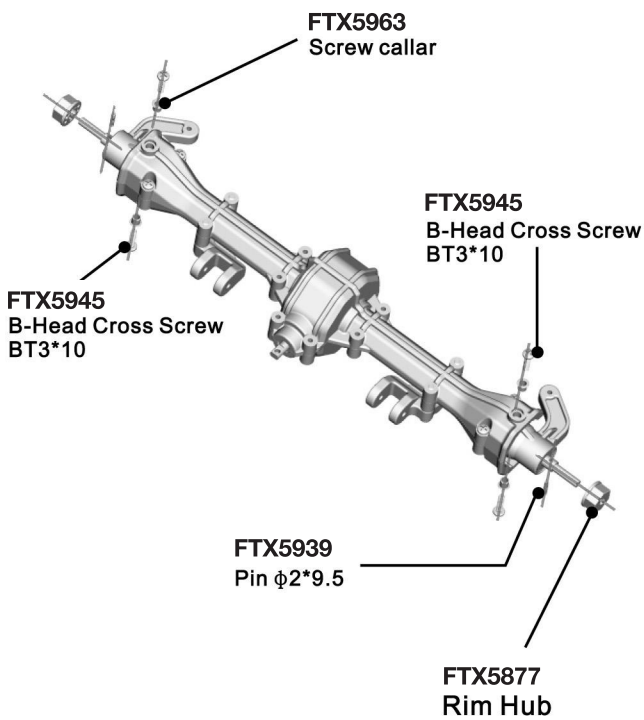
STEP 5-3 FRONT & REAR AXLE ASSEMBLY



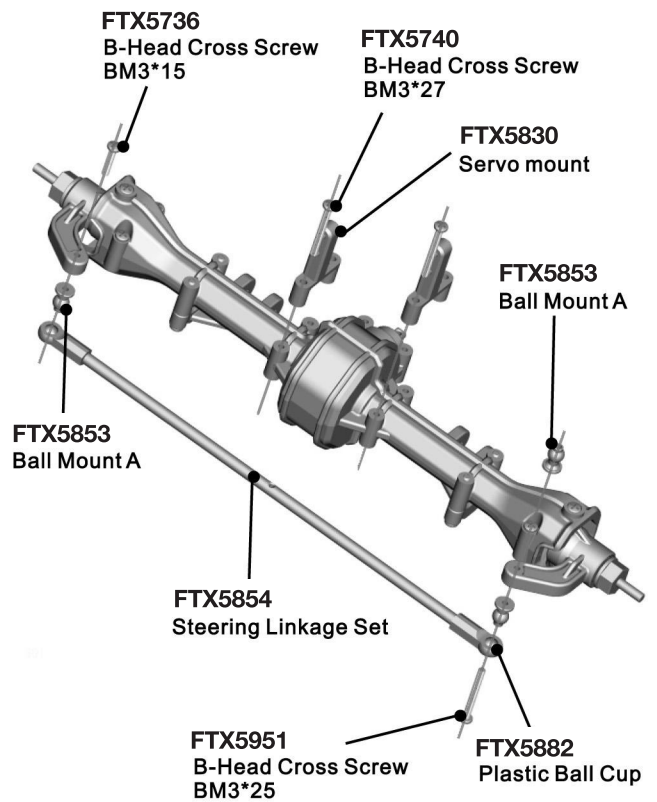
STEP 5-4 FRONT & REAR AXLE ASSEMBLY



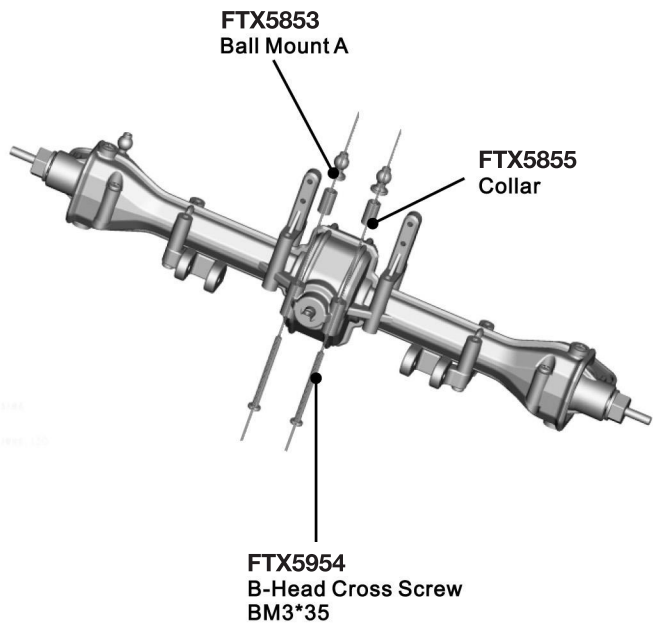
STEP 5-5 FRONT & REAR AXLE ASSEMBLY



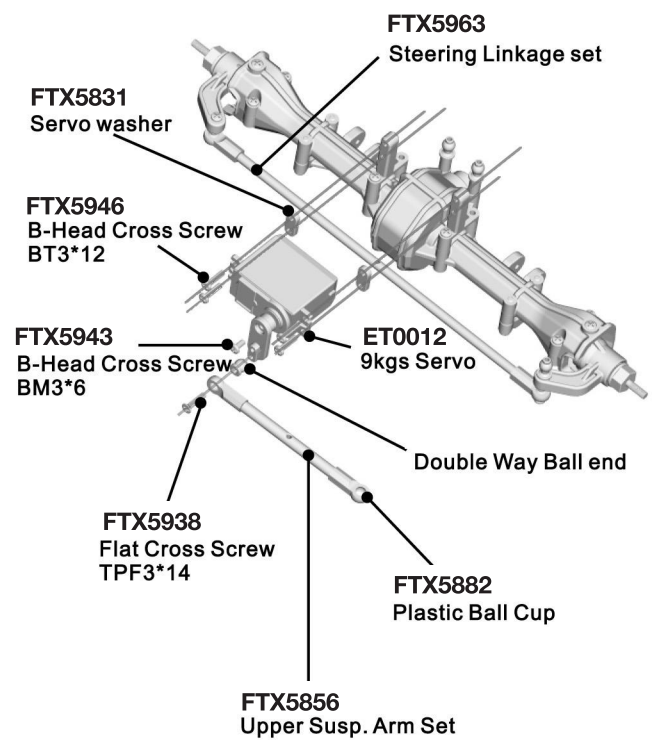
STEP 5-6 FRONT & REAR AXLE ASSEMBLY



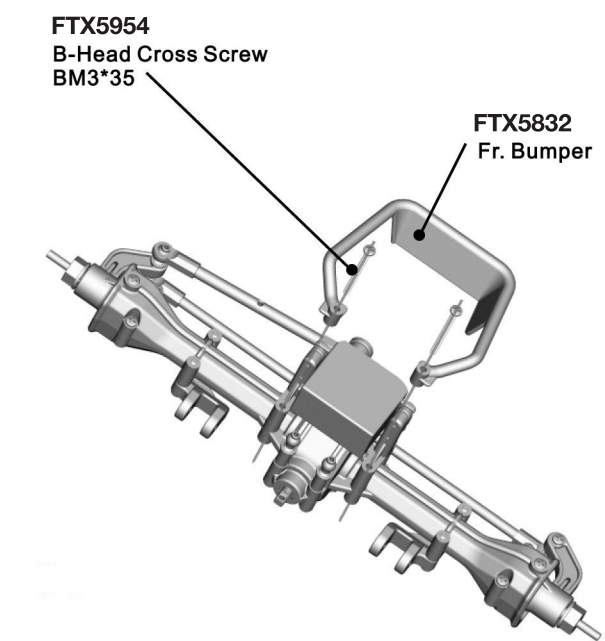
STEP 5-7 FRONT AXLE ASSEMBLY



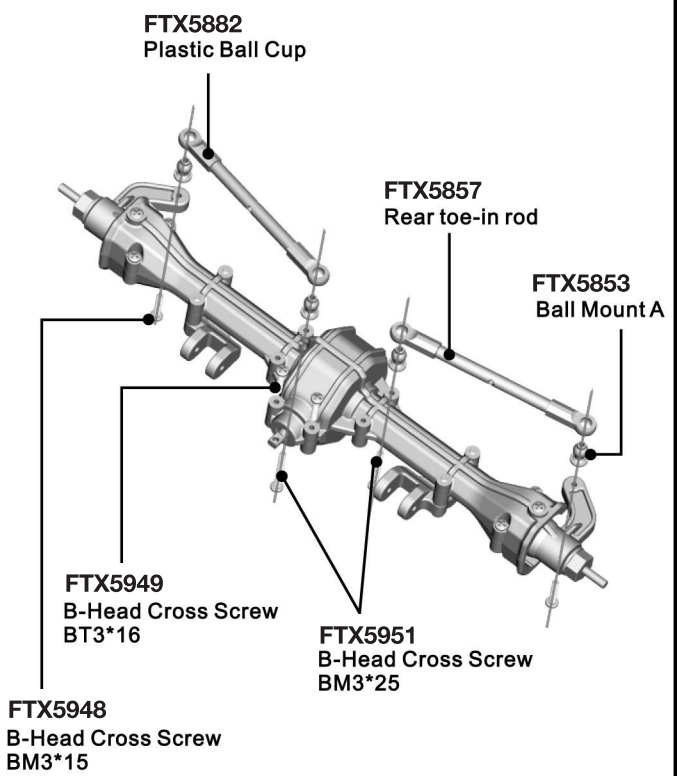
STEP 5-8 FRONT AXLE ASSEMBLY



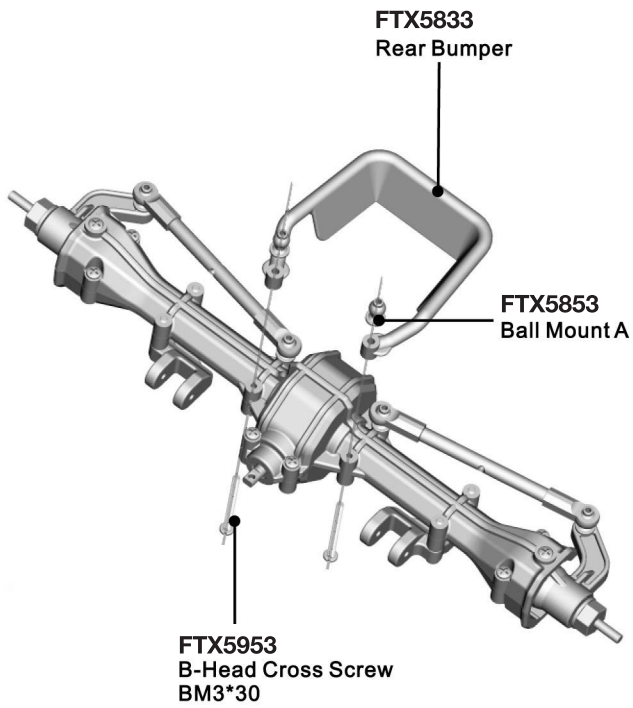
STEP 5-9 FRONT AXLE ASSEMBLY



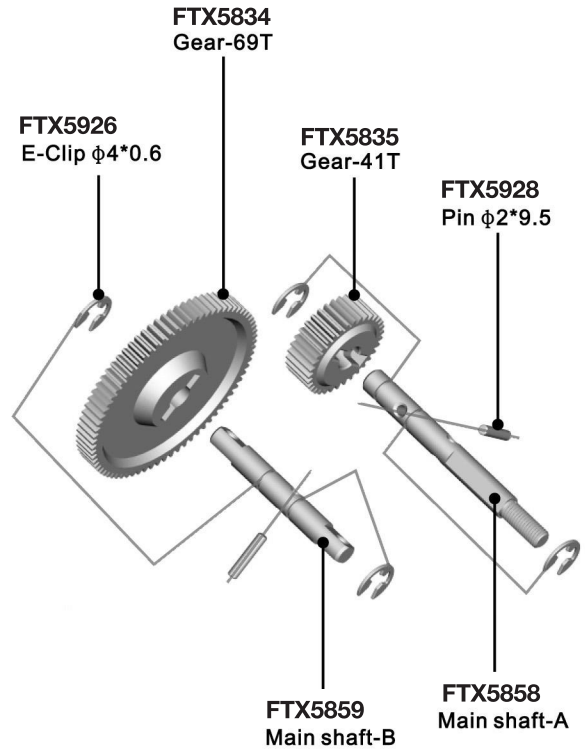
STEP 6-1 REAR AXLE ASSEMBLY



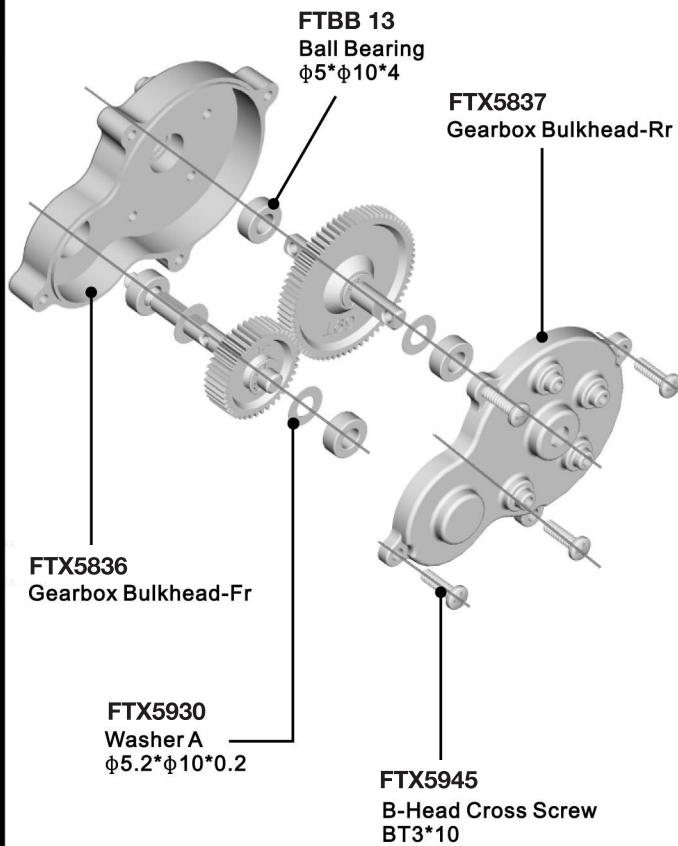
STEP 6-2 REAR AXLE ASSEMBLY



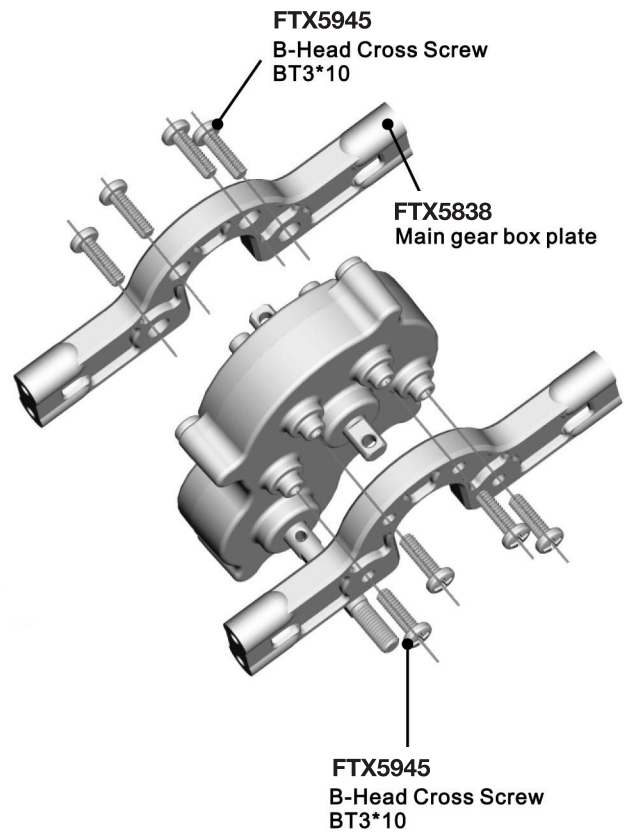
STEP 7-1 CENTRE GEAR BOX ASSEMBLY



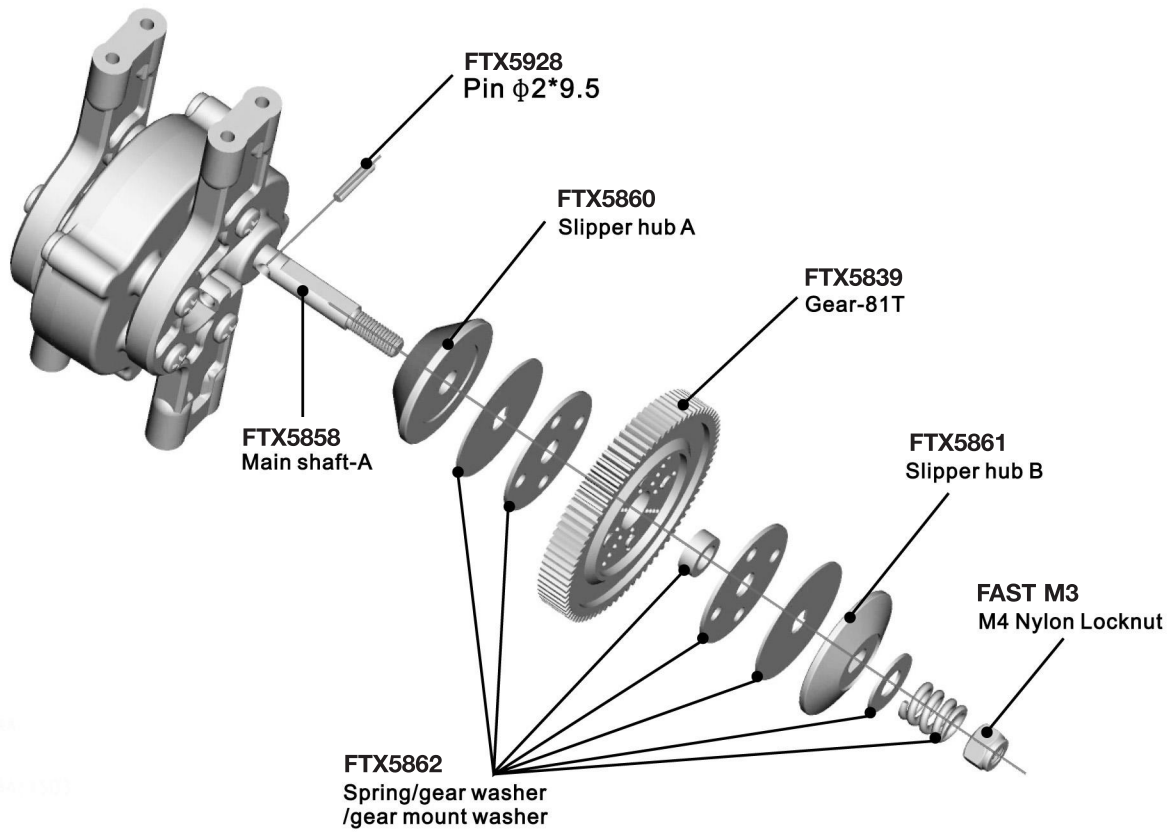
STEP 7-2 CENTRE GEAR BOX ASSEMBLY



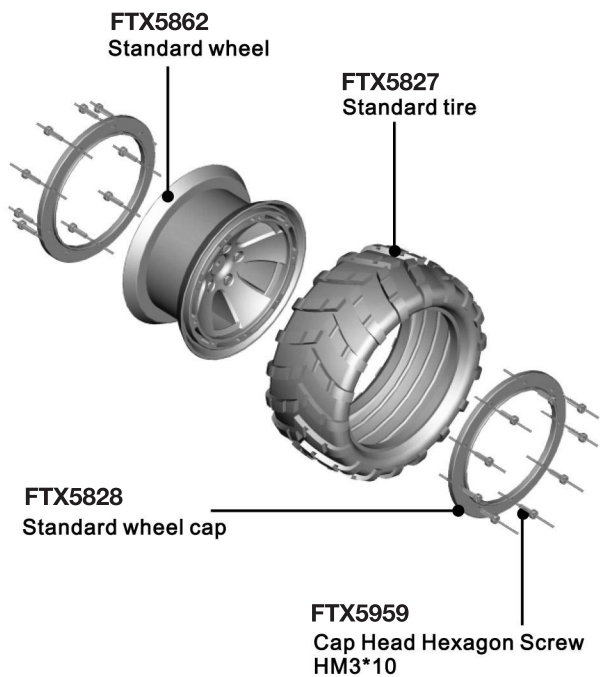
STEP 7-3 CENTRE GEAR BOX ASSEMBLY



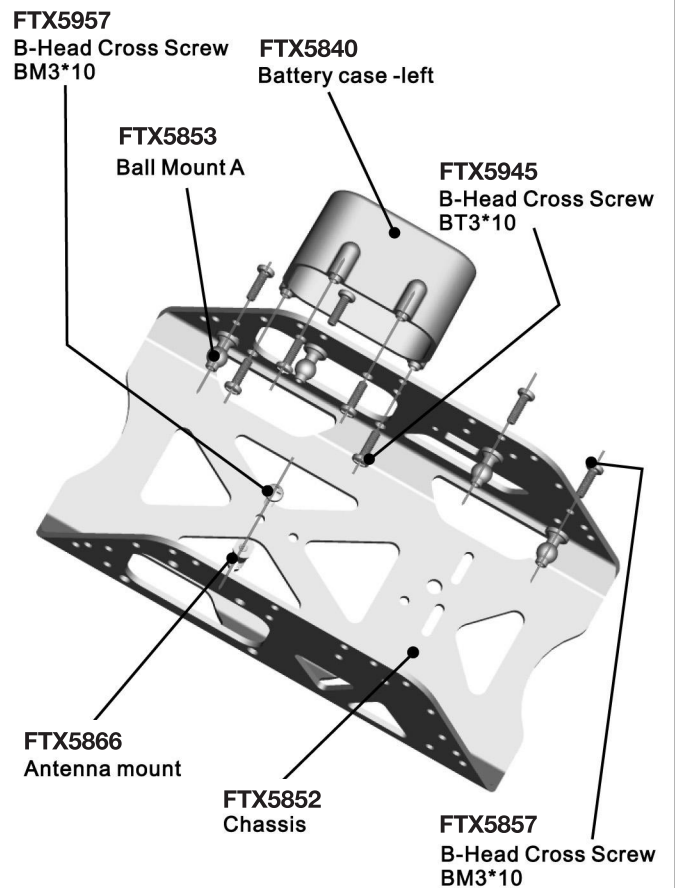
STEP 7-4 CENTER GEAR BOX ASSEMBLY



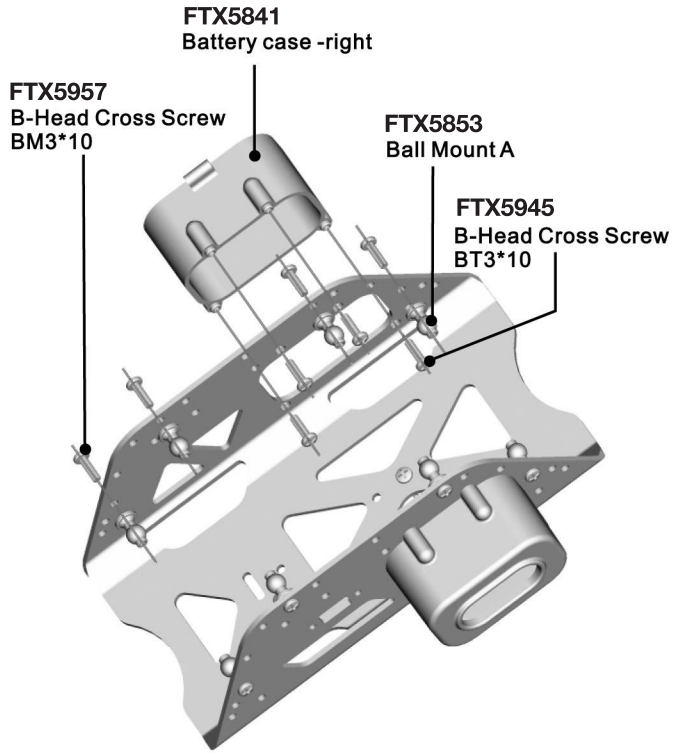
STEP 8-1 TIRE & WHEEL ASSEMBLY



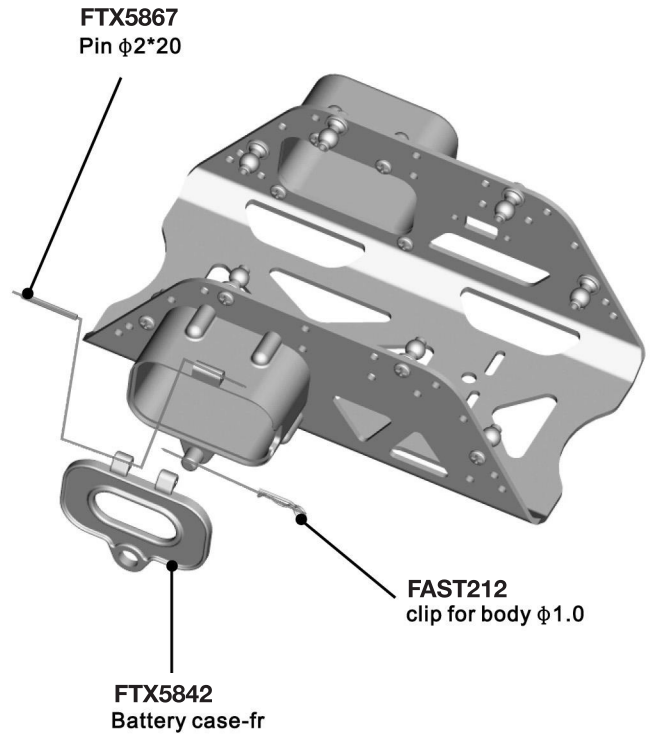
STEP 9-1 MAIN FRAME ASSEMBLY



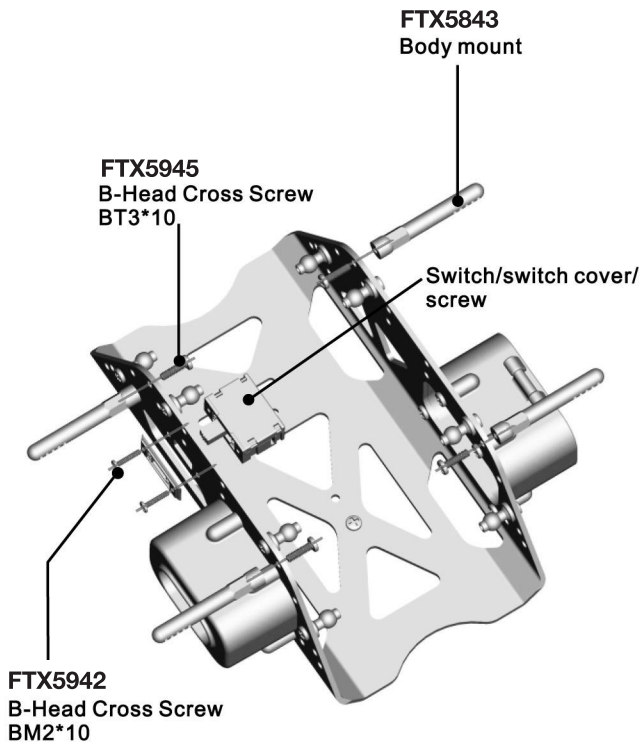
STEP 9-2 MAIN FRAME ASSEMBLY



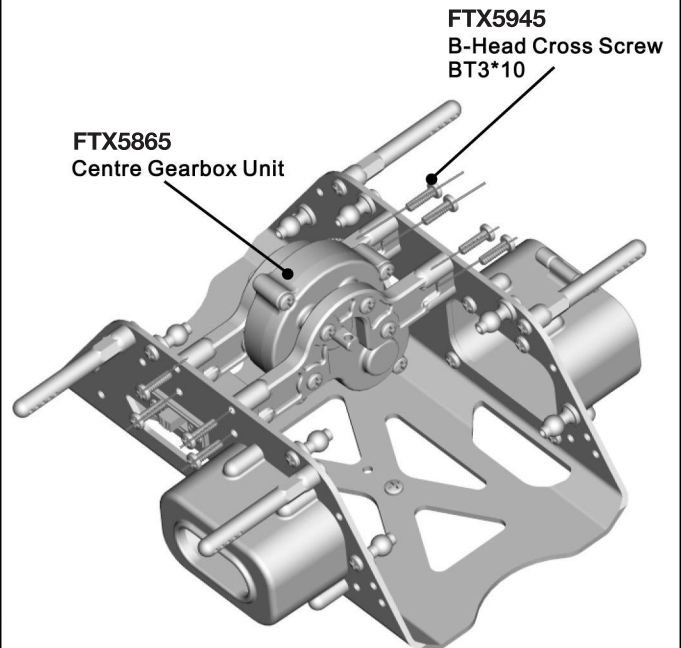
STEP 9-3 MAIN FRAME ASSEMBLY



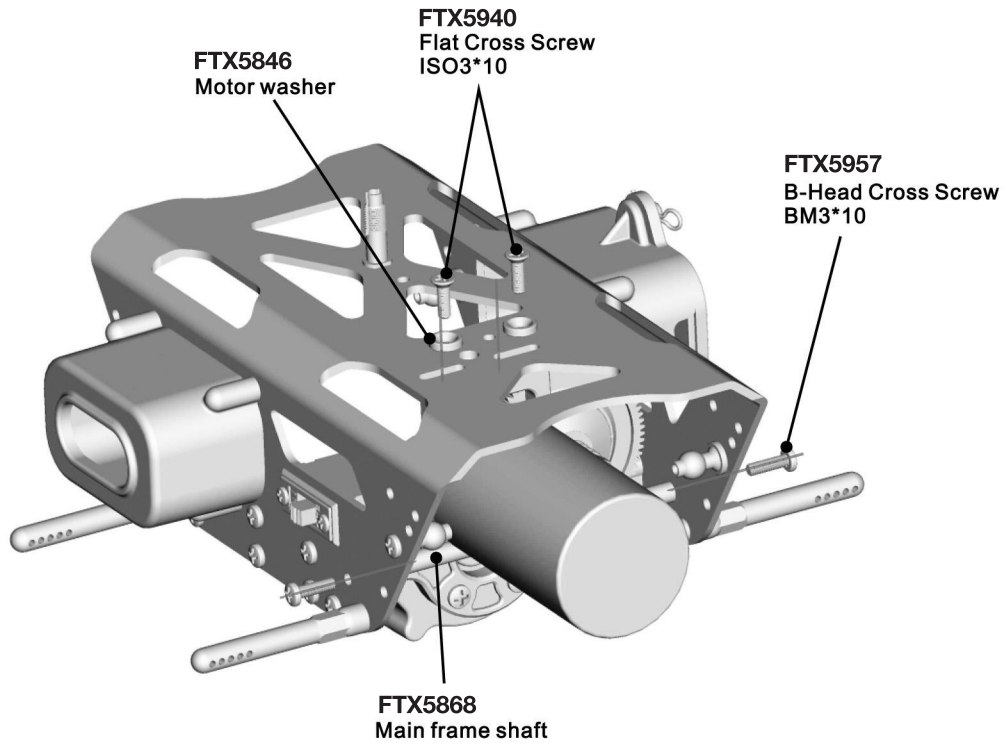
STEP 9-4 MAIN FRAME ASSEMBLY



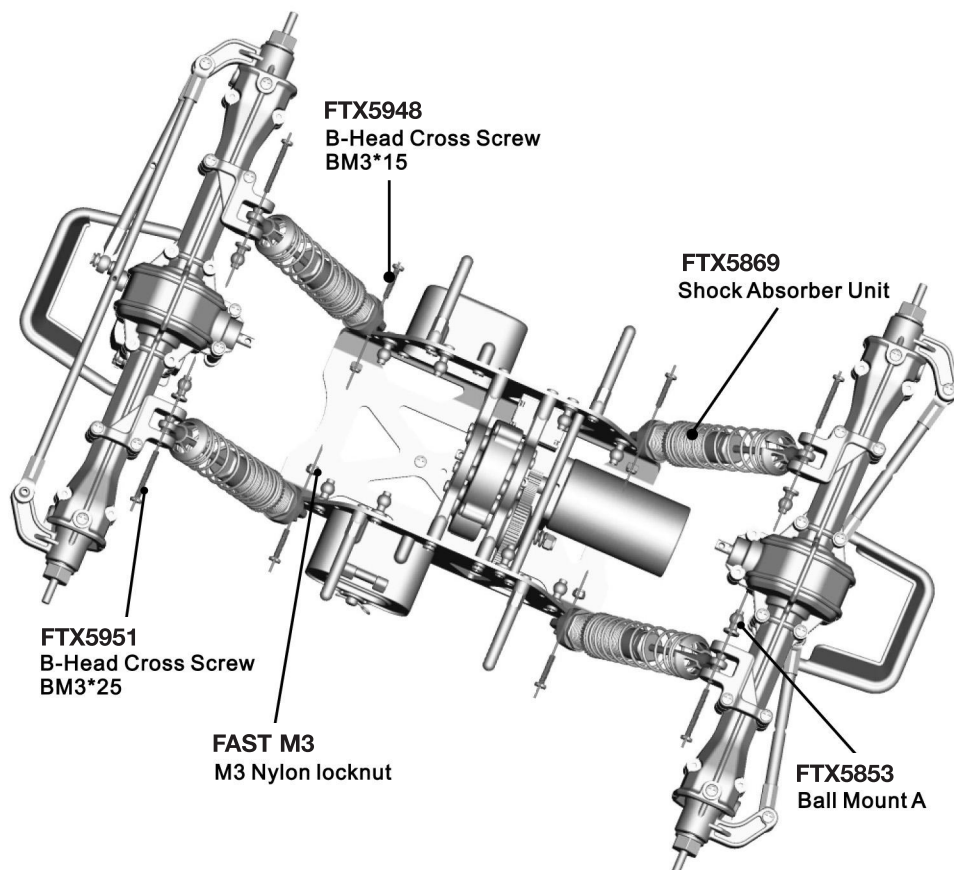
STEP 9-5 MAIN FRAME ASSEMBLY



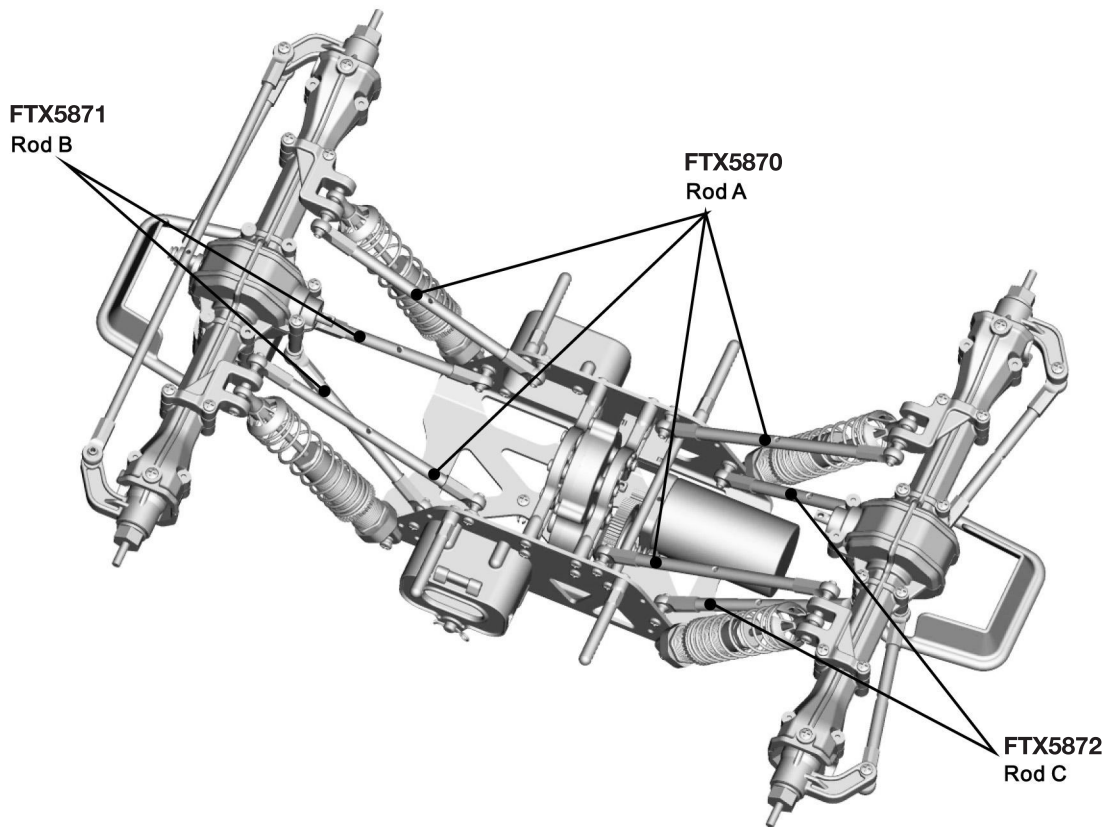
STEP 9-6 MAIN FRAME ASSEMBLY



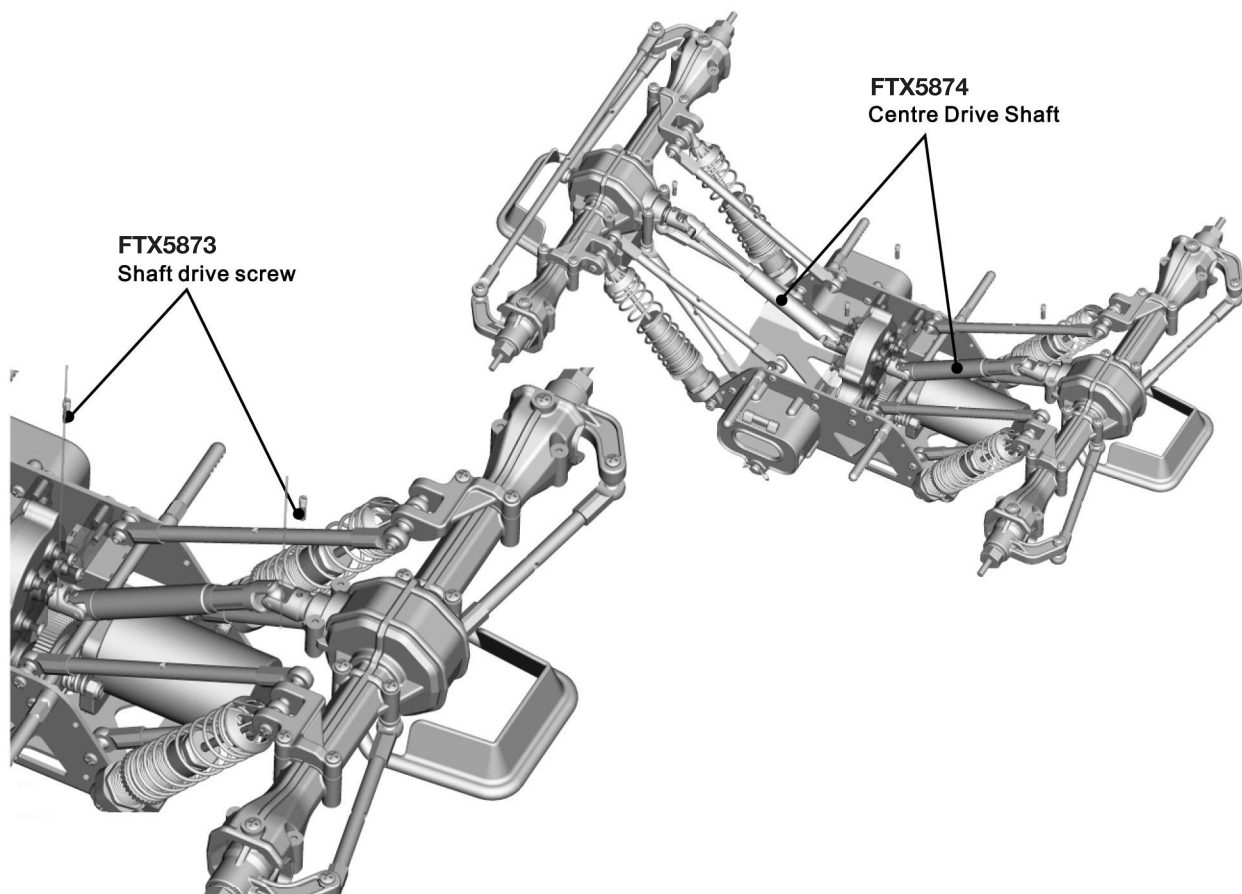
STEP 9-7 MAIN FRAME ASSEMBLY



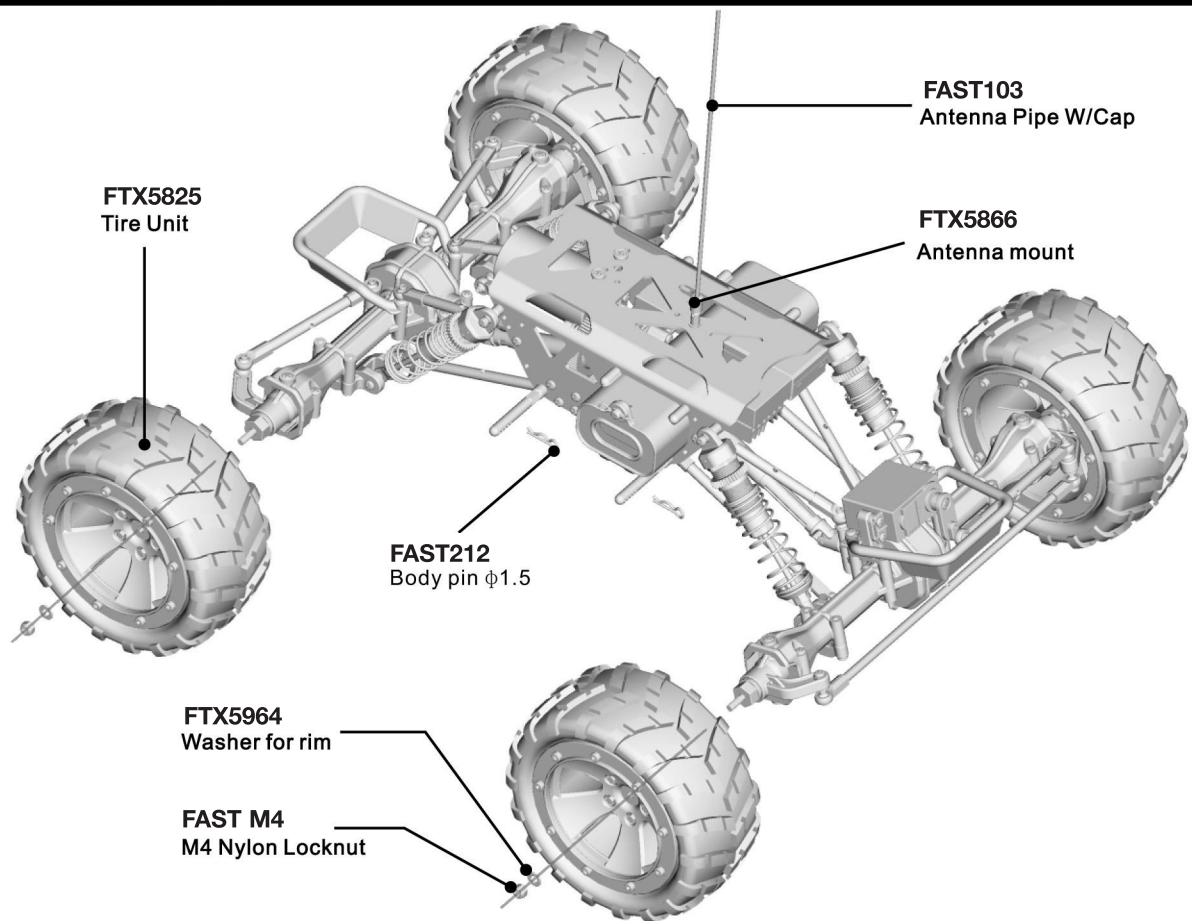
STEP 9-8 MAIN FRAME ASSEMBLY



STEP 9-9 MAIN FRAME ASSEMBLY

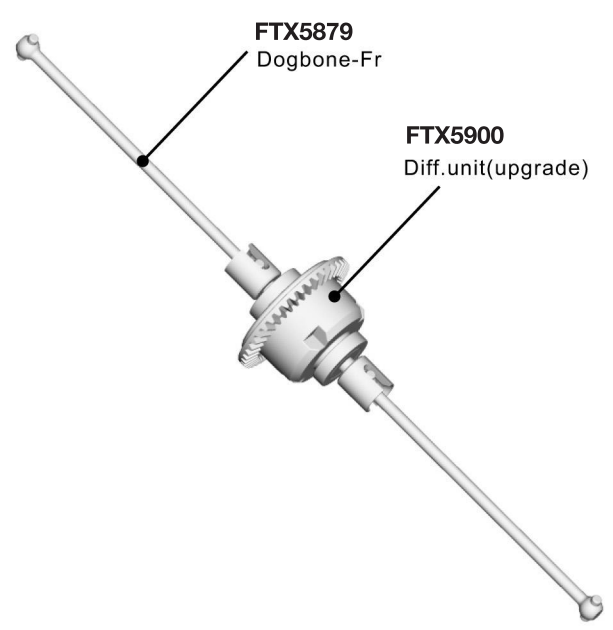
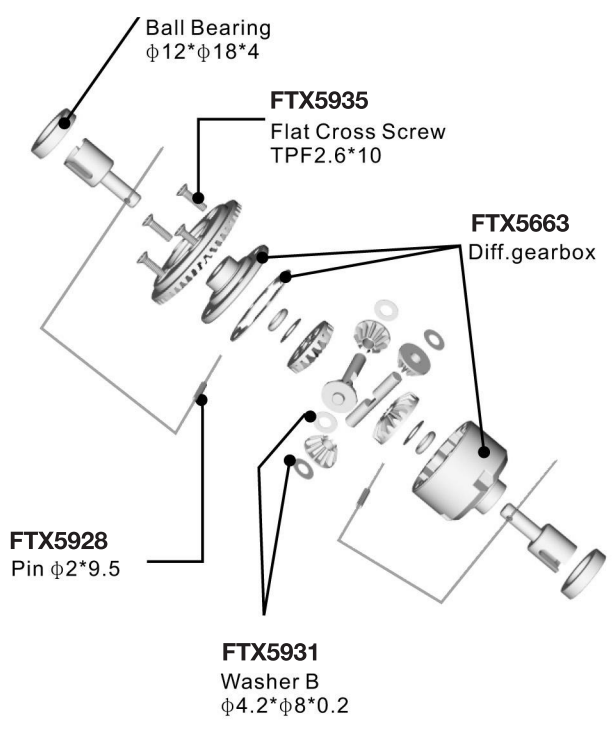


STEP 9-10 MAIN FRAME ASSEMBLY



STEP 10-1 UPGRADE DIFF ASSEMBLY

STEP 10-1 UPGRADE DIFF ASSEMBLY

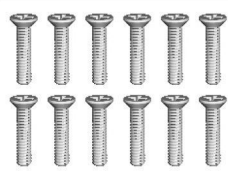


 FTX5825 Diff. Gearbox Bulkhead-Upper 2pcs	 FTX5826 Diff. Gearbox Bulkhead-Lower 2pcs	 FTX5827 Steering Arms 2 pcs	 FTX5828 Shock mount-left 2pcs	 FTX5829 Shock mount-right 2pcs
 FTX5830 Servo mount 2pcs	 FTX5831 Servo washer 2pcs	 FTX5832 Fr. Bumper 1pcs	 FTX5833 Rear Bumper 1pcs	 FTX5834 Gear-69T 1pcs
 FTX5835 Gear-41T 1pcs	 FTX5836 Gearbox Bulkhead-Fr 1pcs	 FTX5837 Gearbox Bulkhead-Rr 1pcs	 FTX5838 Main gear box plate 2pcs	 FTX5839 Gear-81T 1pcs
 FTX5840 Battery case-left 1pcs	 FTX5841 Battery case-right 1pcs	 FTX5842 Battery case-fr 1pcs	 FTX5843 Body mount 4pcs	 Tire Unit Blue 2pcs FTX5915
 FTX5844 Crown gear 43T 2pcs	 FTX5845 Diff case 2pcs	 FTX5846 Motor washer 2 pcs	 FTX5847 Universal joint A 2pcs	 FTX5915 Bevel gear 13T 2pcs
 FTX5849 Drive shaft set 2pcs	 FTX5951 B-Head Cross Screw (BM3*25) 12pcs	 FTX5850 Wheel cup join 2pcs	 FTX5851 Diff. Unit	 FTX5952 B-Head Cross Screw (BM3*27) 12pcs
 FTX5948 B-Head Cross Screw (BM3*15) 12pcs	 FTX5852 Chassis	 FTX5853 Ball Mount A 8pcs	 FTX5854 Steering Linkage Set	 FTX5855 Collar 2pcs

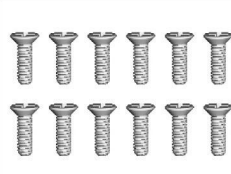
 <p>FTX5954 B-Head Cross Screw (BM3*35) 12pcs</p>	 <p>FTX5856 Upper Susp. Arm Set</p>	 <p>FTX5857 Rear toe-in rod 2pcs</p>	 <p>FTX5953 B-Head Cross Screw (BM3*30) 12pcs</p>	 <p>FTX5858 Main shaft-A</p>
 <p>FTX5859 Main shaft-B</p>	 <p>FTX5860 Slipper hub A</p>	 <p>FTX5861 Slipper hub B</p>	 <p>FTX5863 Motor mount</p>	 <p>FTX5864 Motor gear</p>
 <p>FTX5865 Centre Gearbox Unit</p>	 <p>FTX5866 Antenna mount</p>	 <p>FTX5867 Pin (φ2*20) 4pcs</p>	 <p>FTX5868 Main frame shaft(φ5*85) 2pcs</p>	 <p>FTX5869 Shock Absorber Unit 2pcs</p>
 <p>FTX5870 Rod A 4pcs</p>	 <p>FTX5871 Rod B 2pcs</p>	 <p>FTX5872 Rod C 2pcs</p>	 <p>FTX5873 Shaft drive screw 12pcs</p>	 <p>FTX5874 Centre Drive Shaft 2pcs</p>
 <p>FTX5875 70T Motor</p>	 <p>FTX5943 B-Head Cross Screw (BM3*6) 12pcs</p>	 <p>FTX5916 Standard wheel 2pcs</p>	 <p>FTX5917 Standard tire 2pcs</p>	 <p>FTX5918 Standard wheel cap 4pcs</p>
 <p>FTX5876 Shock Ball 8pcs</p>	 <p>FTX5882 Plastic Ball Cup 8pcs</p>	 <p>FTX5965 Pin (φ2*26) 8pcs</p>	 <p>FAST212 Body pin φ1.5 6pcs</p>	 <p>FTX5877 Rim Hub 4pcs</p>
 <p>FTBB 22 Ball Bearing (φ6*φ12*4) 2pcs</p>	 <p>FTBB 10 Ball Bearing(φ10*φ15*4) 2pcs</p>	 <p>FTX5718 Washer for rim 4pcs</p>	 <p>FTX5986 Switch/switch cover/screw</p>	



FTX5935 FlatCross Screw(TPF2.6*10) 12pcs



FTX5938 Flat Cross Screw(TPF3*14) 12pcs



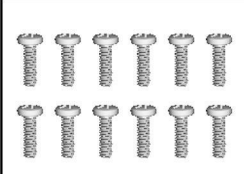
FTX5940 Flat Cross Screw(ISO3*10) 12pcs



FTX5946 B-Head Cross Screw(BT3*12) 12pcs



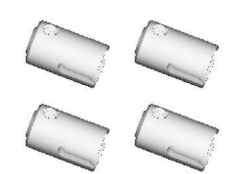
FTX5949 B-Head Cross Screw(BT3*16) 12pcs



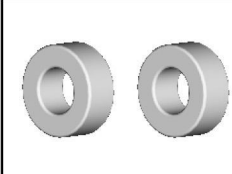
FTX5957 B-Head Cross Screw(BM3*10) 12pcs



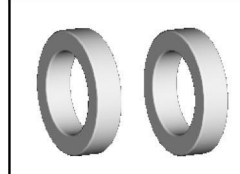
FTX5959 Cap Head Hexagon Screw (HM3*10) 12pcs



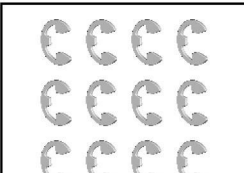
FTX5878 Diff. Outdrive 4pcs



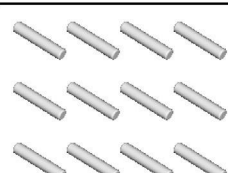
FTBB 16 Ball Bearing φ5*φ10*4 2pcs



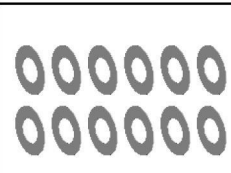
FTBB 337 Ball Bearing φ12*φ18*4 2pcs



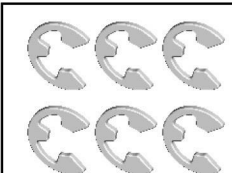
FTX5926 E-Clip φ4*0.6 12pcs



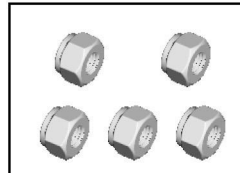
FTX5928 Pin φ2*9.5 12pcs



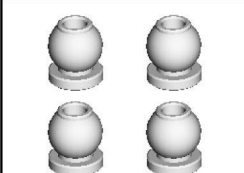
FTX5930 Washer A φ5.2*φ10*0.2 12pcs



FTX5927 E-Clip (φ3*0.6) 12pcs



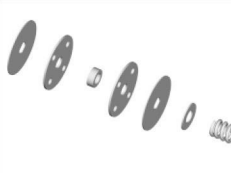
FAST M4 M4 Nylon Locknut 6pcs



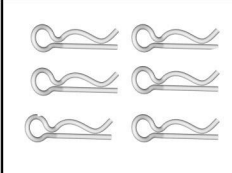
FTX5880 Double Way Ball end 4pcs



FAST123 Set Screw (M4*4) 6pcs



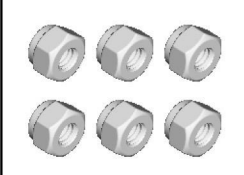
FTX5862 Spring/gear washer /gear mount washer



FAST212 clip for body φ1.0 6pcs



FAST122 Set Screw M3*3 6pcs



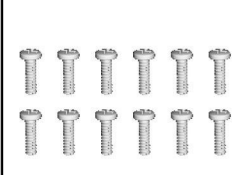
FAST M3 M3 Nylon locknut 6pcs



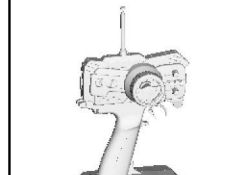
FAST103 Antenna Pipe W/Cap 3pcs



FTX5942 B-Head Cross Screw (BM2*10) 12pcs



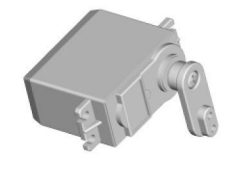
FTX5945 B-Head Cross Screw (BT3*10) 12pcs



FTX5985 Radio Unit



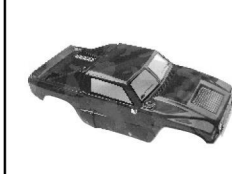
FTX5986 Receiver



ET0012 9kgs Servo



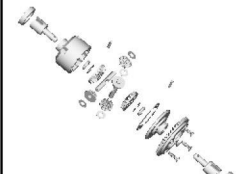
FTX5663 Diff.gearbox 1pcs



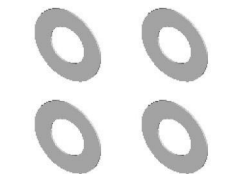
FTX5881 Body B



FTX5963 Screw Collar 8 pcs



FTX5900 Diff.unit (upgrade) 1pcs



FTX5931 Washer B (φ4.2*φ8*0.2) 12pcs



FTX5879 Dogbone-Fr 2pcs



FTX5663 Diff.gearbox 1pcs

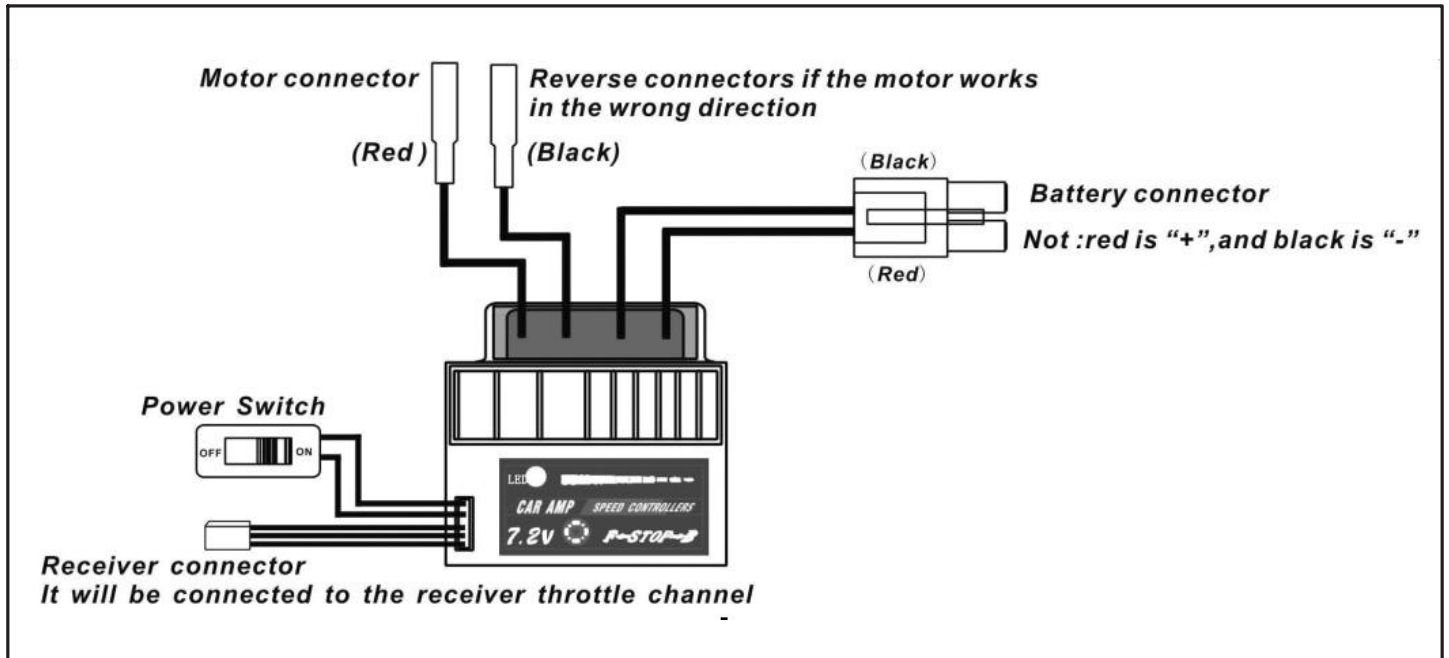
User Instruction (For 1/10 Rock Crawler)

FEATURES:

This ESC is set up in a simple way for easy operation. When switched on, it automatically searches the neutral point. When the automatic setup is finished, the motor sends out "DO" "RE" "MI" music indicating it snatches the neutral point. It's easy to operate.

SPECIFICATIONS:

1. INPUT: 6V-8.4V DC
2. BEC:5V 1A
3. OUTPUT: Forward Continuous CA 20A, Burst Max CA 300A, Reverse Burst CA 150A
4. Size: 35mm(L) X 33mm(W) X 30mm(Height of cooling plate) Weight: 48.2g
5. Applicable: 540/50T motor and above.



WIRE DIAGRAM:

SETUP:

Connect all wires according to the diagram, then switch on the radio. (Put to default setting for Programmable Radio). Switch on the power of the ESC, and you'll hear "DO, RE, MI" music. The music indicates that the transmission is on, and the neutral point is set up. If the motor does not stop running a short while after the neutral point is set, please switch off the ESC and then switch it on again to get the neutral point.

FUNCTIONS:

Forward: push the throttle on the radio (For gun-type radio, trigger the throttle), the car goes forward;

Brake: put the throttle to REVERSE to brake the car;

Reverse: put the throttle to REVERSE when the car is not running, the car will run backward. Backward speed can be proportionally controlled by adjusting the throttle. During backward running, when the throttle is pushed forward, the motor will run reversely. This will brake the car temporarily.

LED indicator is always on during forward, reverse and brake mode. When the ESC is not working and the car stops, LED indicator is off. When the radio is switched off, LED indicator on the ESC flashes.

NOTE:

This ESC is not water-proof. Water should be avoided. If water goes into it, take down the power switch, and use a blower to dry the ESC at medium temperature, then test it again.

It's dangerous to touch the motor after running, as it emits heat during running, and the cooling plate is hot after running.



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