

8x8 Dump Truck Operator's Manual

Scale: 1:14

Size: Length 680mm, Width 210mm, Height 160mm

Weight: 10.3 KG (including remote control)

Theoretical Load: 15 KG

Load Total Mass: 24.5 KG

Included in Kit:



Remote Controller: FS-CT6B

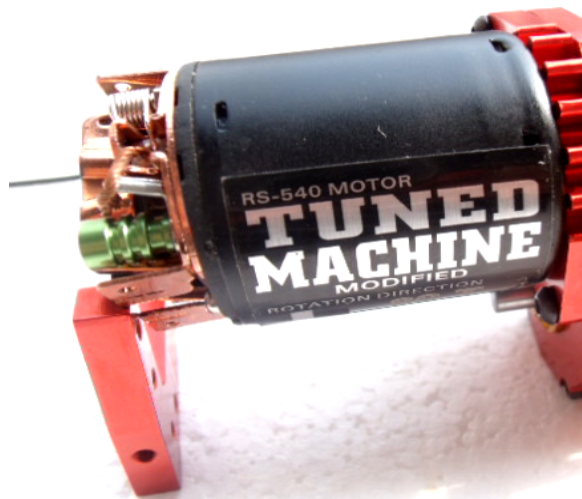


Transmission Case: Planetary transfer case, offering real appearance. Compact structure. High pulling torque with Shift-on-the-fly capability.

Reduction Ratio: First Gear 1:64; Second Gear 1:16.



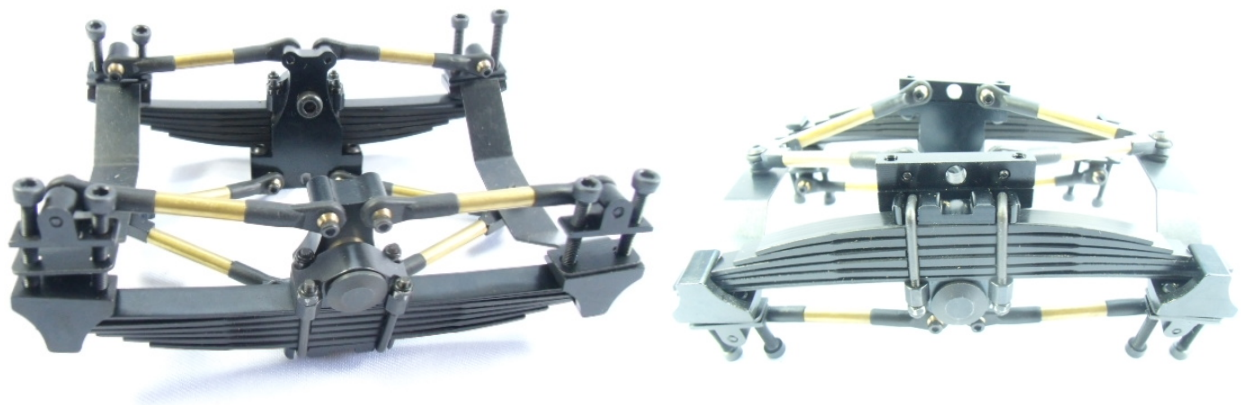
Electric Power: High Torque Brushed 35T 540 motor, Allowing the truck to climb near 45 degree inclines.



Front Suspension: Pull rod swing arm balance type suspension helps increase articulation of front axle and improve the performance of through for the truck.



Rear Suspension: Made of lightweight parabola steel plate, the suspension can handle large loads while still giving good flex to keep the tires on the ground.



Drive Axles: Appearance is designed with simulated single reduction metal bridge, that offer a remote control differential lock to improve the

capability of the dump truck.

Front (middle) Axle: full-metal case offering big steering angle.

Rear (middle) Axle: full-metal with scale 4-wheel brake disc design.



Steering System: Double connecting rod steering system installed between girders to simulate real position. A servo with 17kg torque is included. A servo link installed on the servo can effectively protect the servo from the damage of external forces.



Rear Wheels: Anodized in Light Silver 10-hole Rims



Tires: Deep groove tread pattern improves the traction

Front: Specifications - 385/65r22.5/R22.5. Diameter 86.5mm, Width 28mm

Rear: Specifications - 315/80/R22.5. Diameter 86.5mm, Width 22mm



Drive Shaft: JD Model V Open Angle Spline Type shaft



Transfer Case: Installed on the beam, CNC machined, reduces vibration caused by the long distance transmission, evenly distributing power to the front and rear axle at the same time.



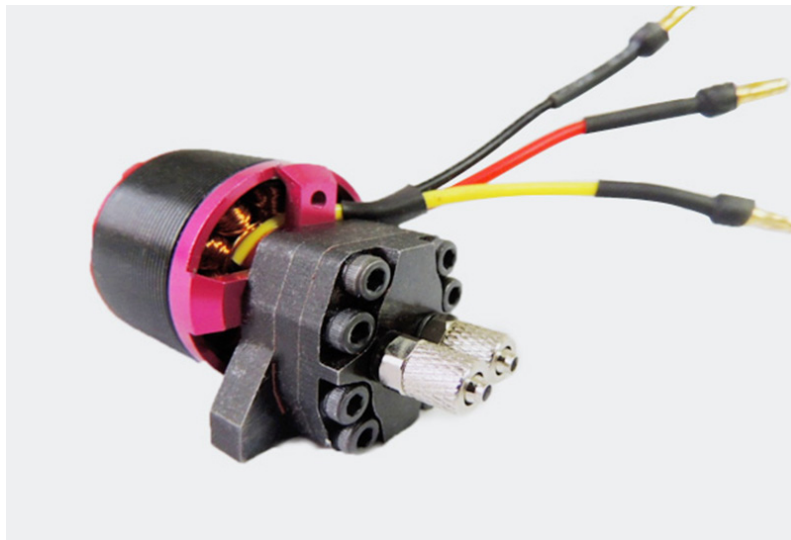
Body: VOLVO FMX Cab Body with Amazing Details



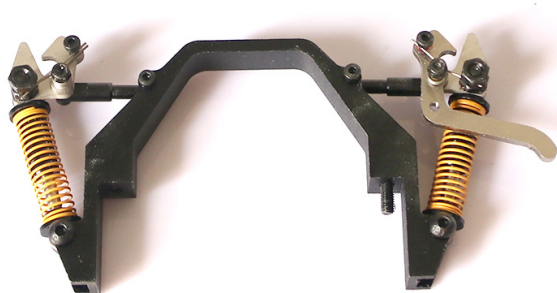
Oil Cylinder: 5 level multistage oil cylinder, 37mm in diameter, route 115mm, pressure of 5MPA, connected with static point model oil pump set, theoretical thrust can be up to 400 kg.



Oil Pump: 2814 brushless driven motor run by a 40A ESC, rated pressure 3.5-5 MPA, flow rate 0.42 L/MIN. Small size with high efficiency.



Front Suspension: Simulated design while offering a convenient way to replace battery.



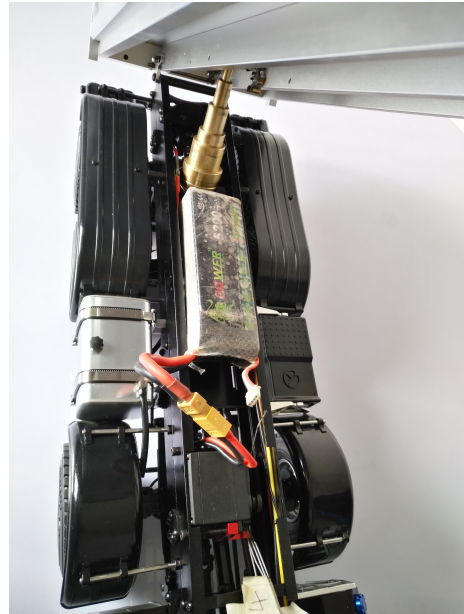
Fenders: Front sand plates are made of aluminum alloy while the rear sand plates use welding process, offering durability with a real appearance.



Oil Tank: Anodized in bright silver offers real appearance and functions as the holding tank for the hydraulic oil.



Toolbox: Constructed of black galvanized sheet. All kinds of small-simulated tools can be placed inside to improve the scale realism.



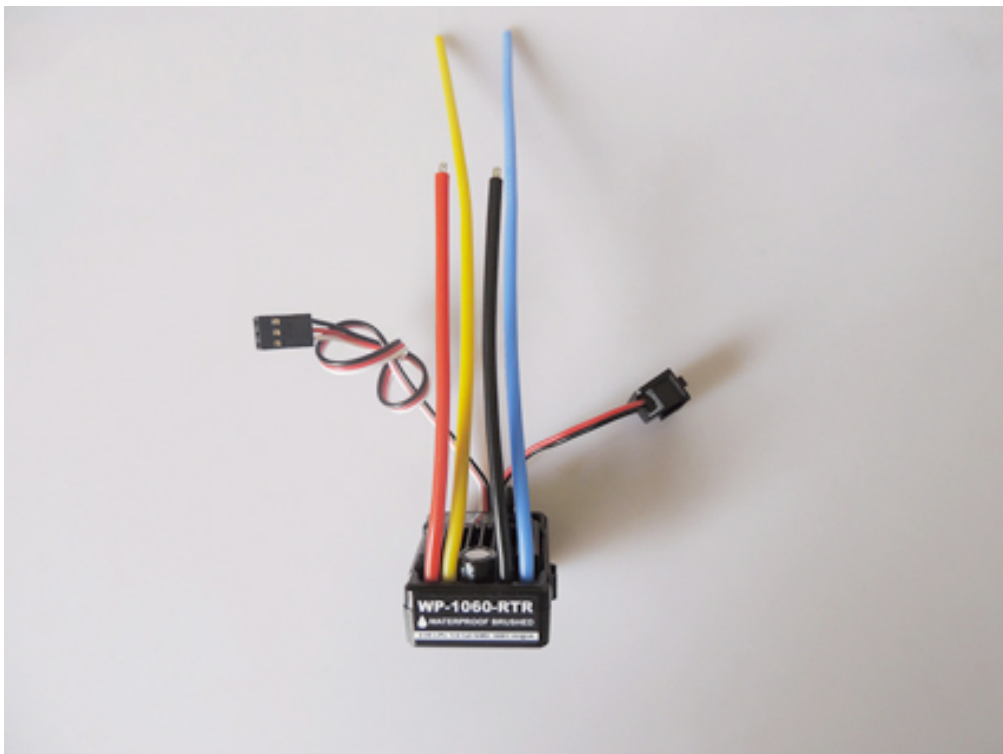
Tail Lights: Carefully designed explosion-proof network style taillights. Designed to install 3-5 mm LED lamps.



Dump Bed: European u-shaped structure with a smooth finish to make unloading faster. The tailgate is a dovetail hook structure, to make unloading automatic through the linkage.



Electronics: Speed Controller (360A 7.2-11.1 V Brushed)



Voltage Notes: Remote Controller is 9.6V (8 cells AA battery),
Main Truck is 11.1V (3S Lipo or 12V Battery)

Operation Steps:

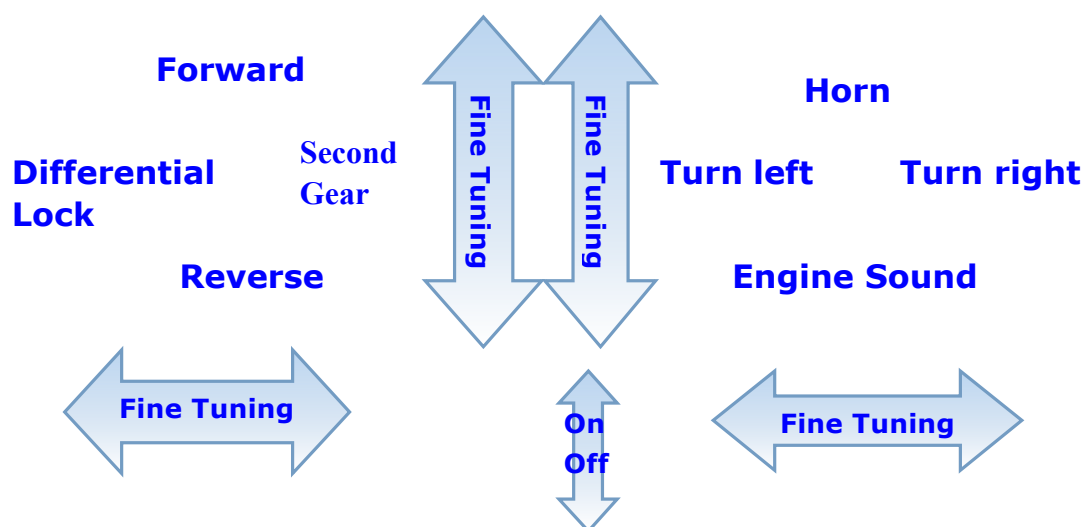
1. You must first turn on remote controller
2. Verify that all rotation buttons are in the middle (Sticks and knobs)
3. Connect power to the truck
4. Only can start to operate after hearing the signal for 4 times (about within 5s). NOTE: ESC might enter setup model if you don't wait.

Please keep the switches of both sides at the default position, otherwise, it may cause the rockers to work improperly and negatively impact the ESC.

Operation Instructions:



****Please check all buttons and control sticks to make sure they are at the medium position before you turn on the controller. Once confirmed you can turn on the switch button.**

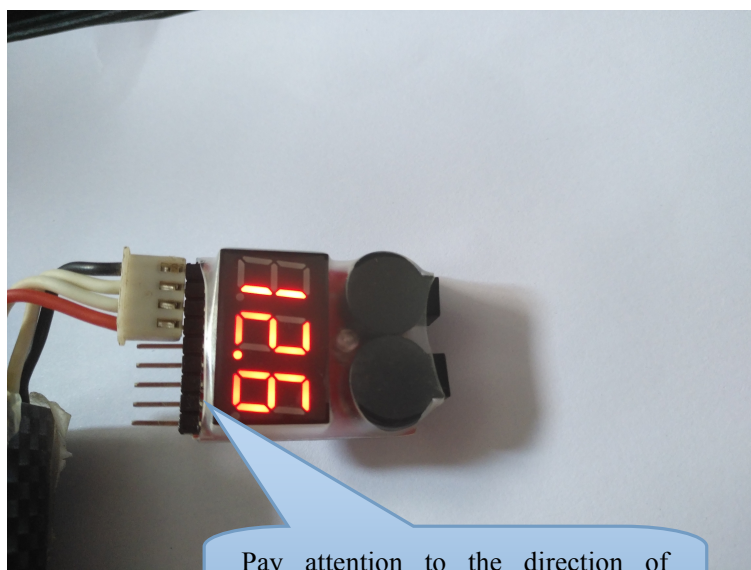


Remote Controller Battery Installation: Requires 4 AA Size Batteries (1.5 V). Pay attention to positive and negative charges when installing, as shown in figure:



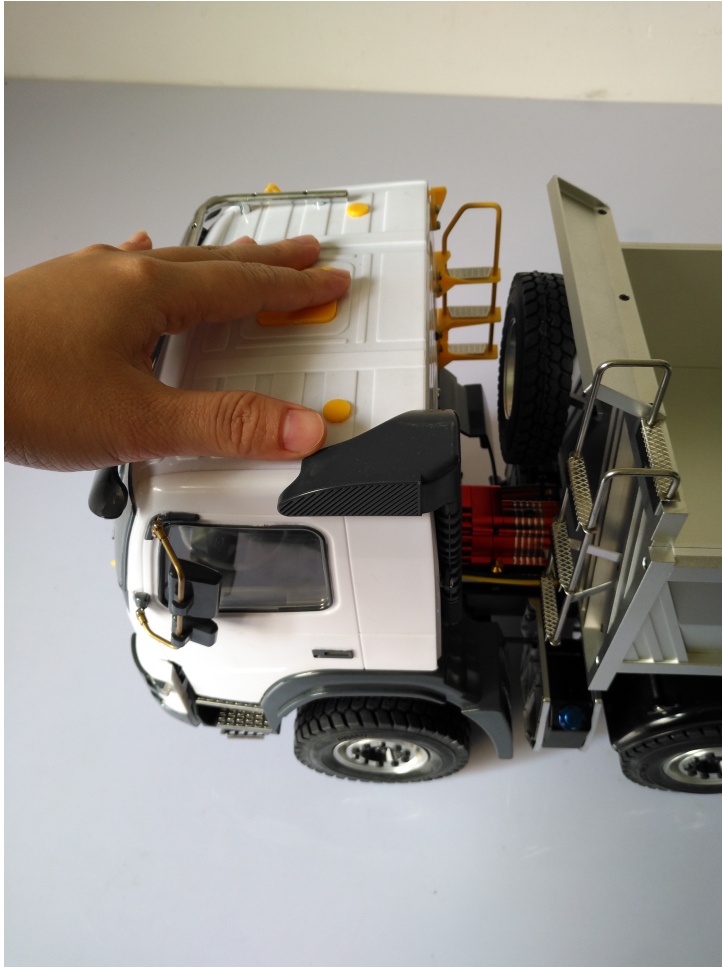
Main Car Battery Installation: Measuring the voltage first, the voltage can not be lower than 11.1 V, as shown in figure:

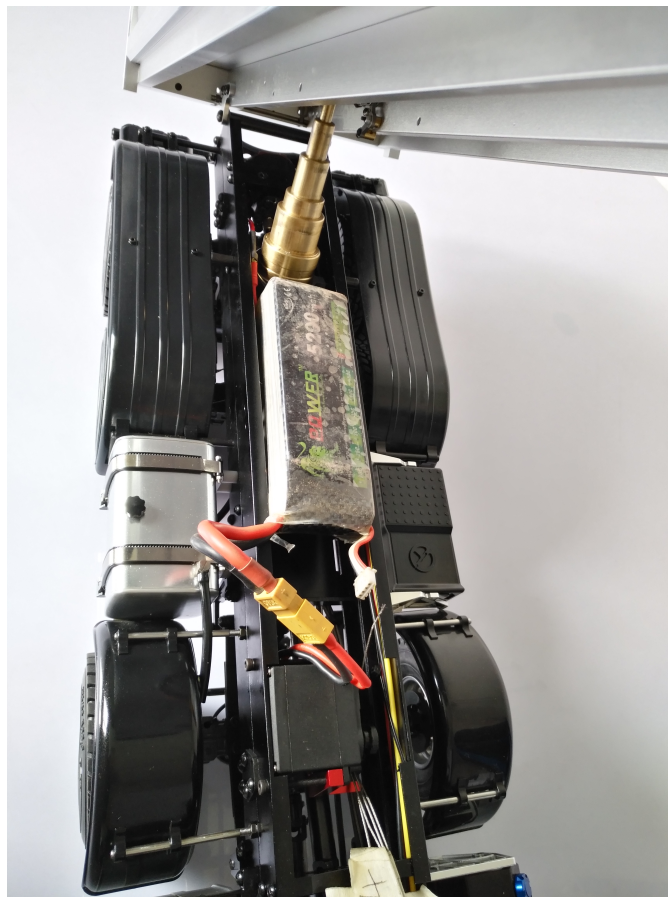
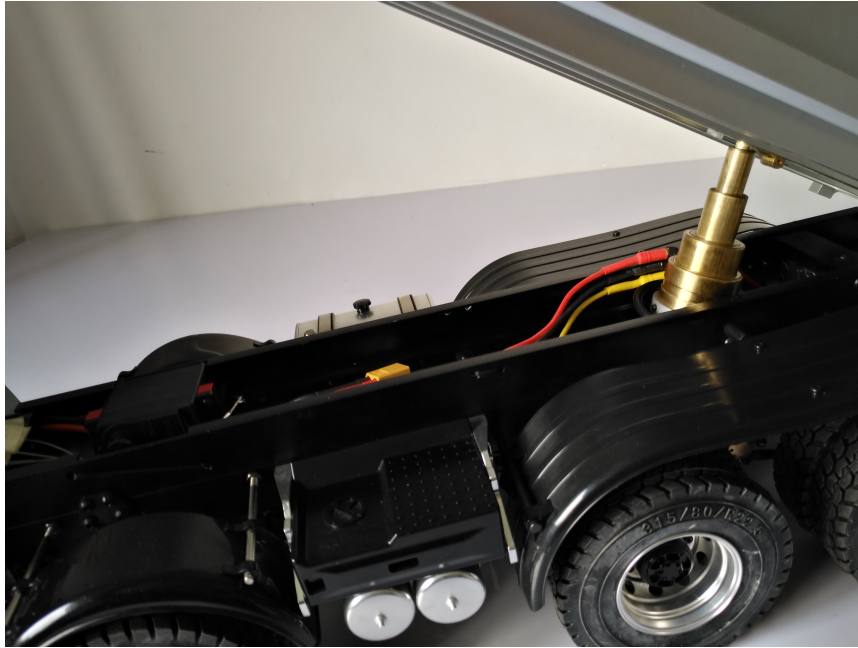
(You will need to purchase the battery and power display separately, 3S Lipo battery, 75mm of maximum length, 37mm of maximum width, 30mm of maximum height)



Truck head's opening and closing







After connection, you will hear 4 tones and wait about 5 seconds, then you can operate the remote control.

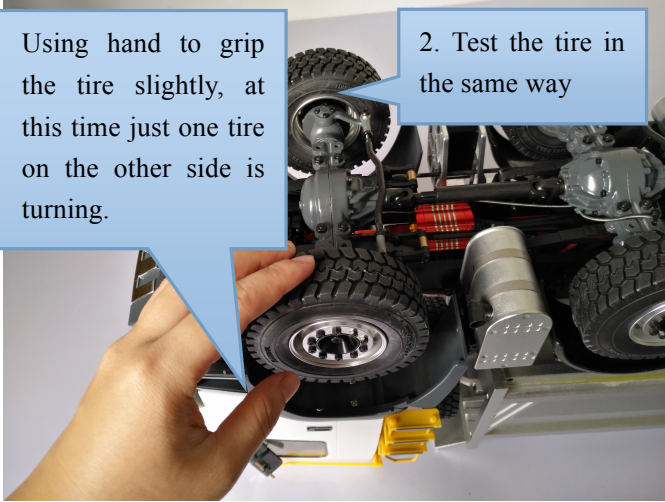
Locking Differential Troubleshooting: As shown in figure, it shows the four axles without differential lock engaged.

With the truck, upside-down on a secure workspace, use the remote control to operate forward or backward.



1. Using hand to grip the tire slightly, at this time just one tire on the other side is turning.

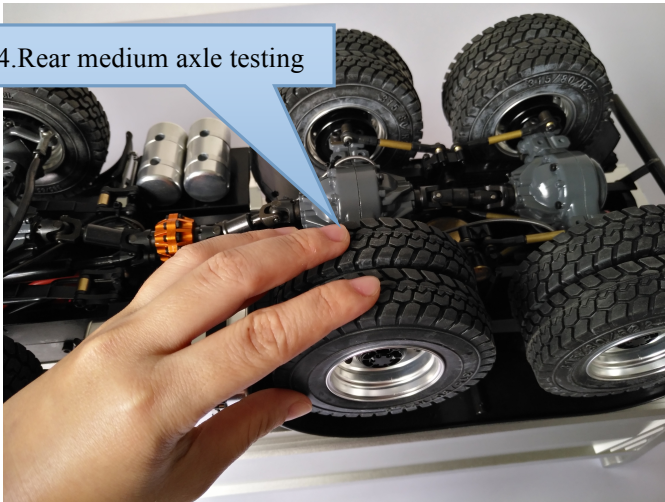
2. Test the tire in the same way



3. Front Middle axle testing



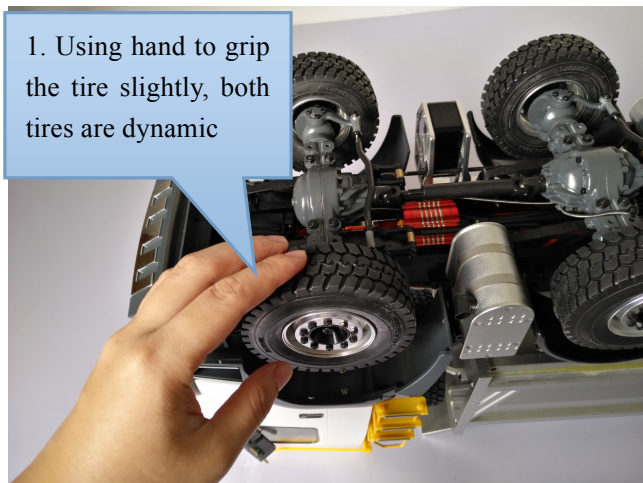
4. Rear medium axle testing



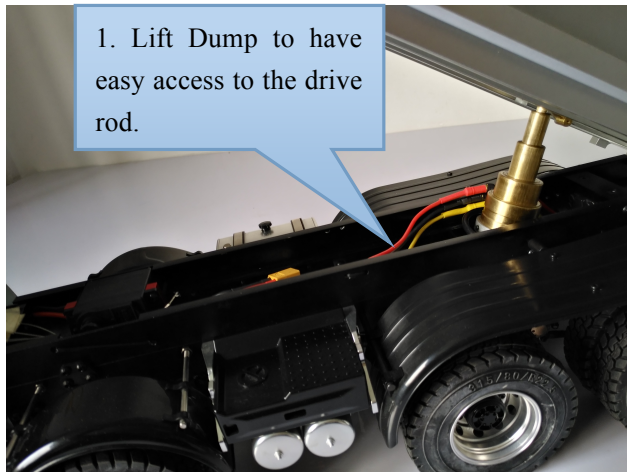
5. Rear axle testing



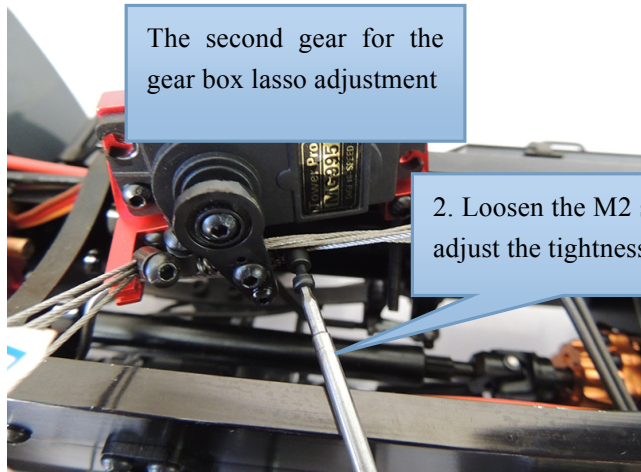
Locking Differential Troubleshooting: As shown in figure, the axle differentials are locked.



Differential lock and transmission engage a gearshift all by the same servo drag rod. This can be adjusted if the differential lock doesn't get locked. Be careful not to tighten it too much or it will keep the differential locked constantly. The following is a troubleshooting graphic description:

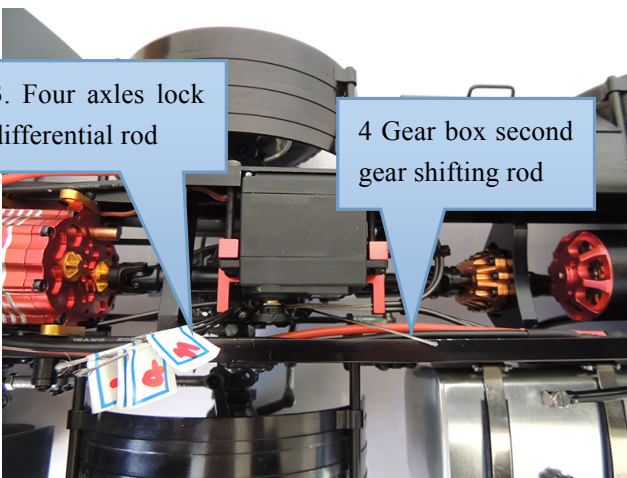


1. Lift Dump to have easy access to the drive rod.



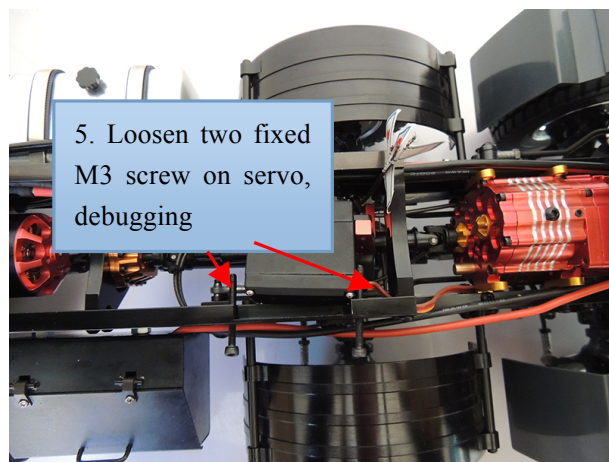
The second gear for the gear box lasso adjustment

2. Loosen the M2 screw can adjust the tightness of rod

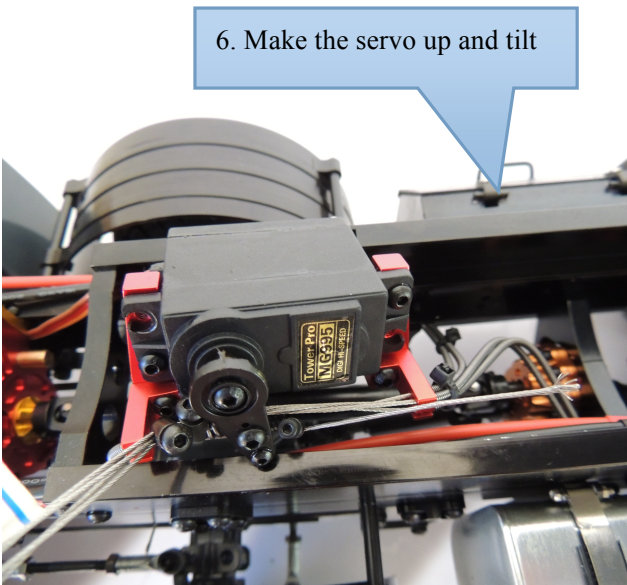


3. Four axles lock differential rod

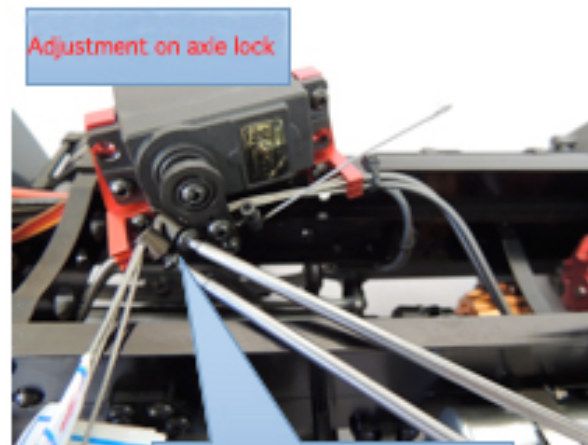
4 Gear box second gear shifting rod



5. Loosen two fixed M3 screw on servo, debugging



6. Make the servo up and tilt



Adjustment on axle lock

7. Loosen the M3 screw, then you can adjust the tightness of zip

Steering Test:

This link is used to adjust the angle between these two wheels to reach the requirement of straight walk.



The instructions for dumping up and dumping down of hydraulic:

