

S10 Twister: exchange of the gear

The S10 Twister Buggy and Truggy brushed cars are delivered with a gear made of synthetic material. LRP offers an optional metal gear set with the order number 124518.

You need the following accessories:

#124518 Metal Gear Set Twister

Grease for metal gears

Phillips screwdriver small

Phillips screwdriver big

7mm socket wrench

Slot screwdriver small



The metal gear is recommended, when you use stronger motors or when you drive on rough terrain.

By taking the example of a **S10 Twister Buggy**, we would like to explain you the conversion step by step.

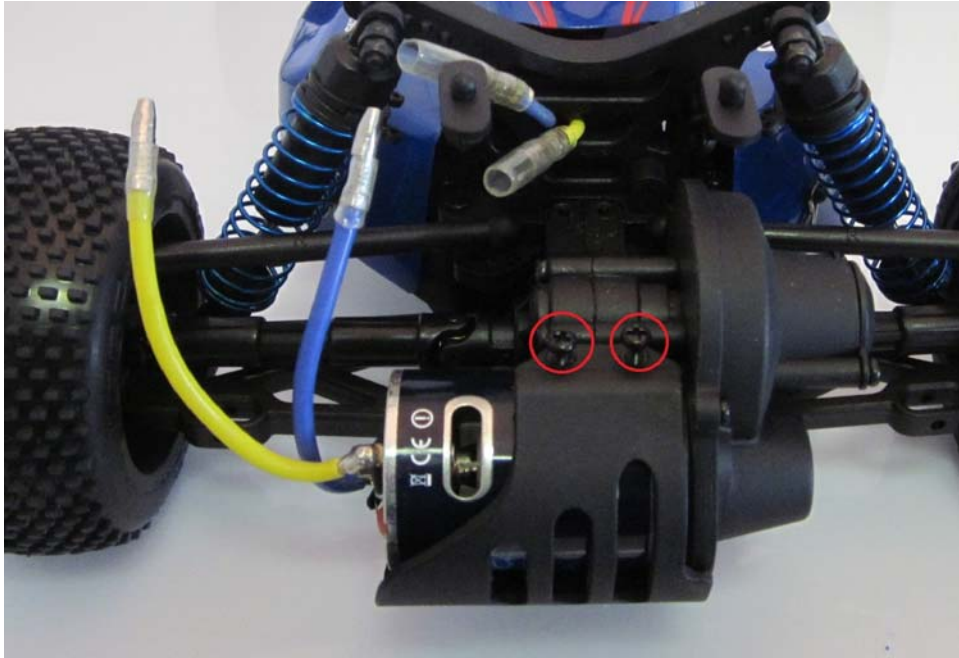
Loose the splints of the rear wing and remove it.



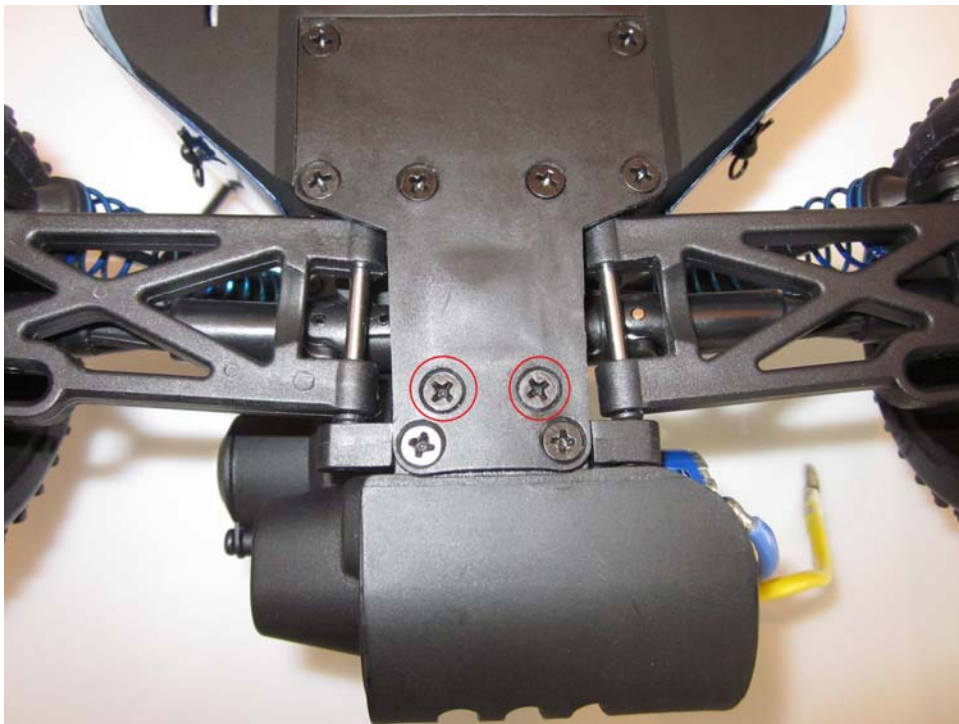
Disconnect the motor cables and loose both of the marked screws.



Loose both of the screws of the motor protection.



Then, loose the two lower screws of the gear box.

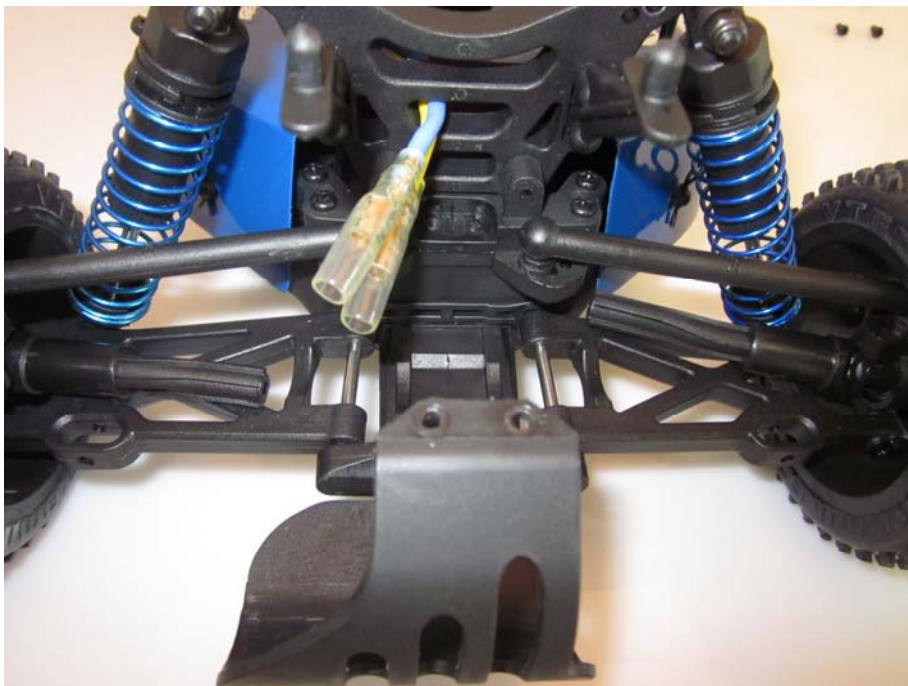
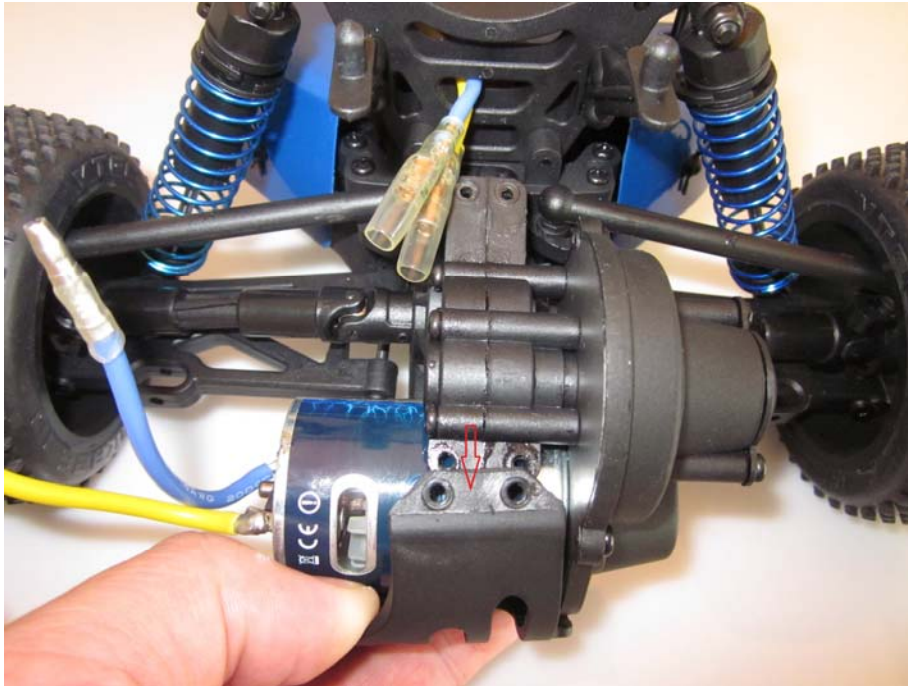


TECH TIP



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Put the car on its wheels and pull the motor protection slightly backwards. Remove the gear box upwards. The drive shafts are only stuck and will slide out of the carriers, when you take out the gear box.





Loose both of the screws of the gear cover and remove it.



Loose the nut of the slipper and remove all of the components from the slipper shaft.



Please mind the order of the parts.



TECH TIP



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Loose the four marked screws and remove the motor mount.



Loose also the fifth screw now.



As the gear parts are greased, please make sure you use some kind of underlay or pit towel from now on! Open the gear box as shown on the image.



Remove the differential.



Take out the middle gear wheel and the slipper shaft now.



Then, remove the ball bearings from the middle gear wheel.



Insert the ball bearings into the metal gear wheel. Build the metal gear wheel into the gear housing.



Pull the spacer and the gear wheel from the shaft.



Slide the metal gear wheel onto the shaft and fix the metal gear wheel on the carrier.
Then, please mount the spacer.



Insert the slipper shaft with the metal gear wheel into the gear housing.



Disassemble the differential now. Loose and remove the four Phillips screws.



Loose the E-clip of the bevel gear with a screwdriver or pliers.



Remove the insides of the differential.



Loose the E-clip of the bevel gear with a screwdriver or pliers.



Clean all gear wheels. The crossed out parts have to be replaced by the new components that are shown below.



Reassemble the two sides of the differential in reverse order.



TECH TIP



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TECH TIP



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Grease the insides of the differential with suitable grease.



Shut the differential with the four screws included in the metal gear set.

ATTENTION: Please do **not** use the screws of the plastic differential. In this case, you would destroy the metal differential.

Tighten the screws crosswise.



Insert the differential into the gear housing and grease the gear wheels.

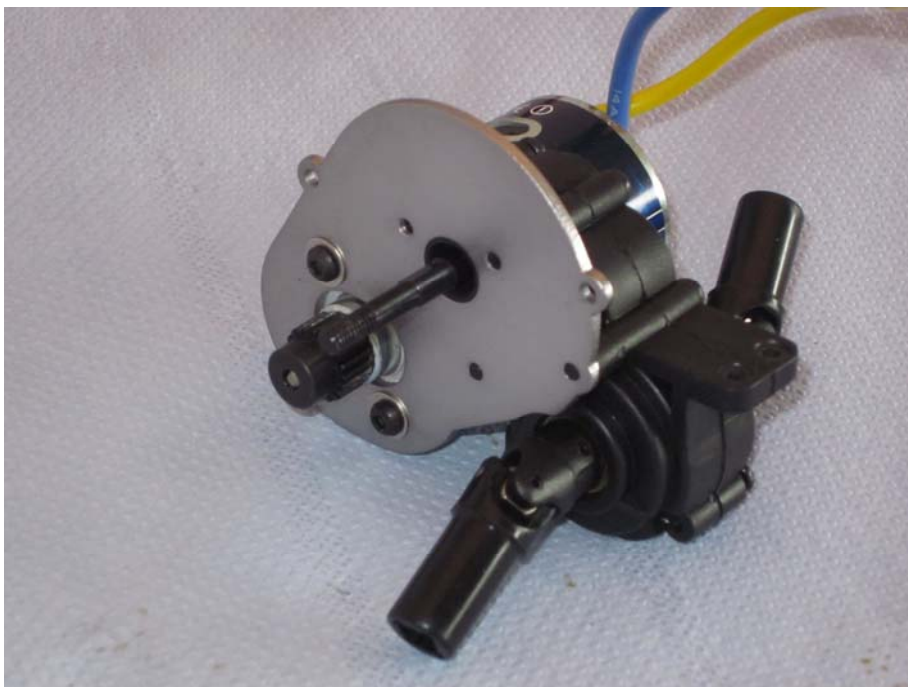


Put the two parts of the gear housing together and insert the marked screw (see next page).





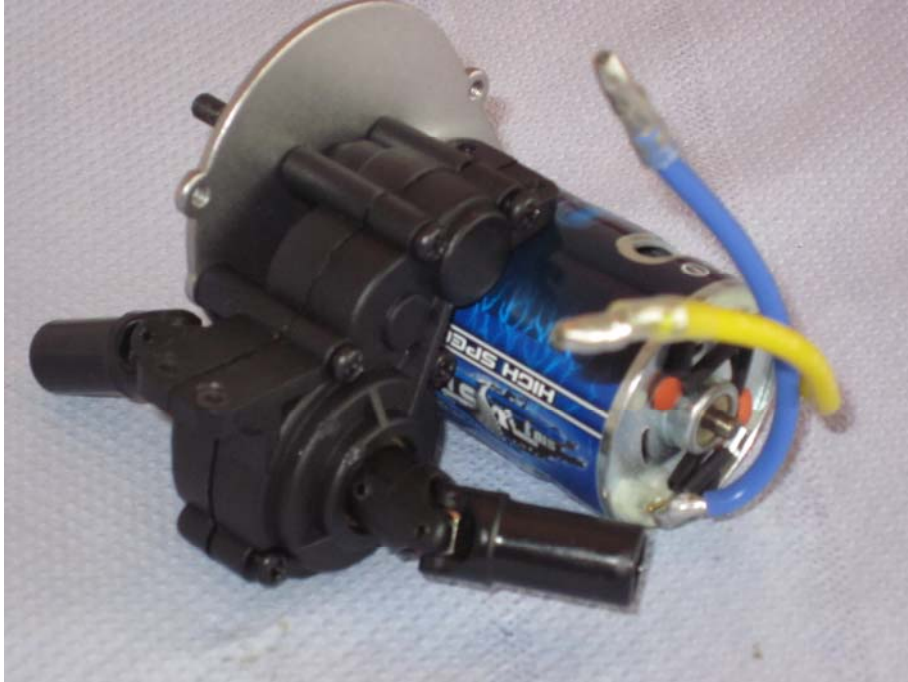
Position the motor mount on the gear housing and fix it with the four screws. Tighten also the screw marked on above image.



TECH TIP



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Slide the spacer onto the slipper shaft.



TECH TIP



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Then, assemble the pressing disks, slipper disks and main gear as shown on the images. Please mind the recesses of the slipper disks. These have to match the main gear.



TECH TIP



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Assemble the washer, rebound spring and nut of the slipper. Setup the slipper as described in the manual of your S10 Twister car. **Please check the pinion clearance by all means.**



Fit and tighten the gear cover.

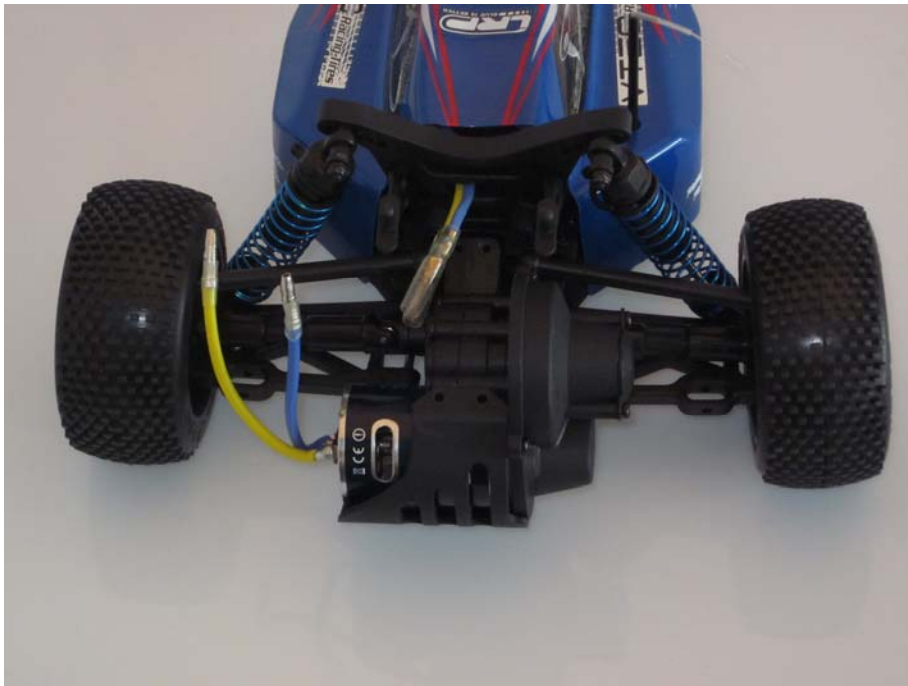
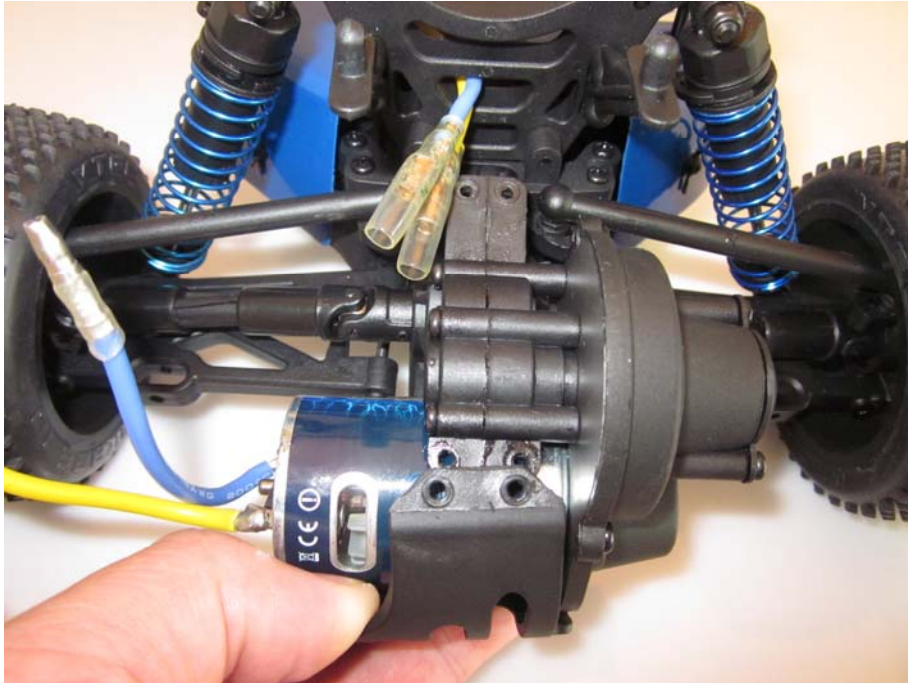


TECH TIP



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Insert the gear unit into the car now. In doing so, put the drive shafts into the differential outdrives.

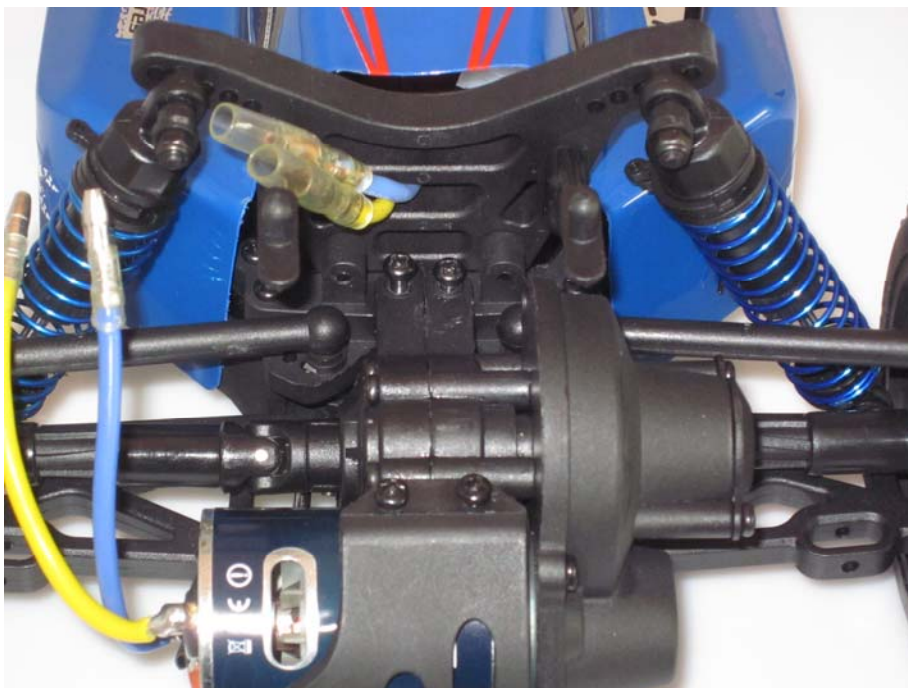
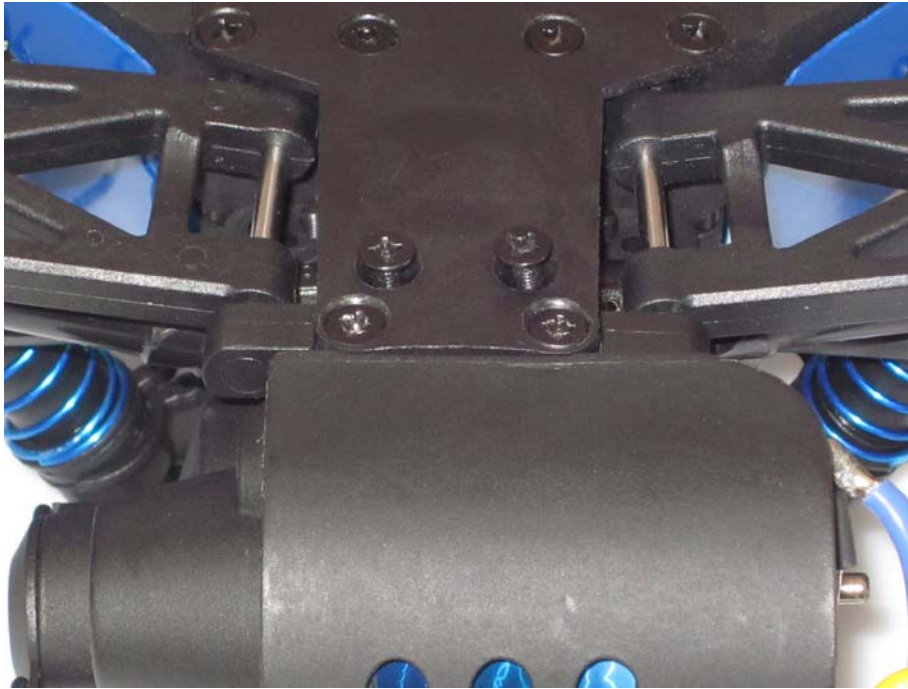


TECH TIP



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Fix the gear unit with the two screws on the chassis plate.
Then, mount the four screws on the upside of the car.



TECH TIP



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Connect the motor cables. Last but not least, mount the rear wing. You're done.

