



IMP4CT – 4wd buggy by Elcon Models

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## Introduction

Welcome and thank you for choosing the Elcon Models IMP4CT 4WD off-road buggy!

In this quick guide for assembly of the IMP4CT, we guide you through the build of the car.

Each step can contain 1 or more components for assembly.

Each step the parts to be assembled are coloured in the picture (blue).

We will start building at the rear-end and will end with the front of the car.

**NOTE:** Each item in the building kit is packed with its needed assembly materials.

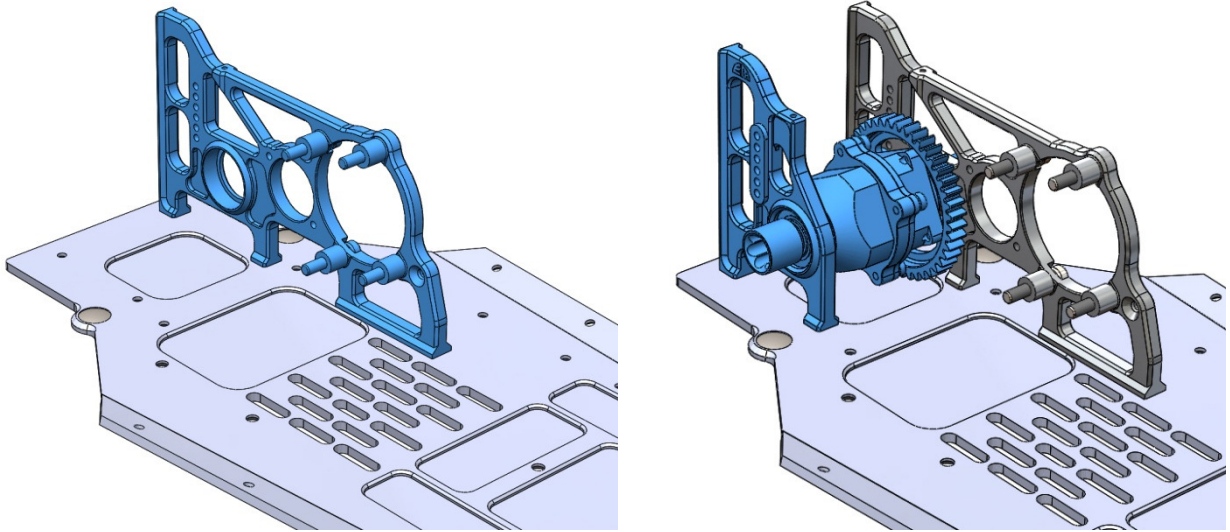
We advise you to unpack only the part marked with blue colour shown in each building step.

This document is ment as guide and help for building your car.

Pictures, colours, items can all be subject of change and might differ from the part delivered.

We wish you a lot of pleasure in building and driving the car.

## Rear Assembly

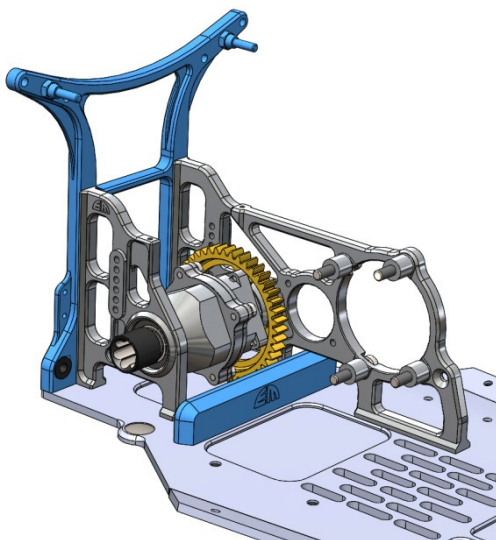


Take the main gear plate and mount it to the chassis (the shown 4 engine bolts can be placed also at a later stage) .

Assemble the gear to the differential.

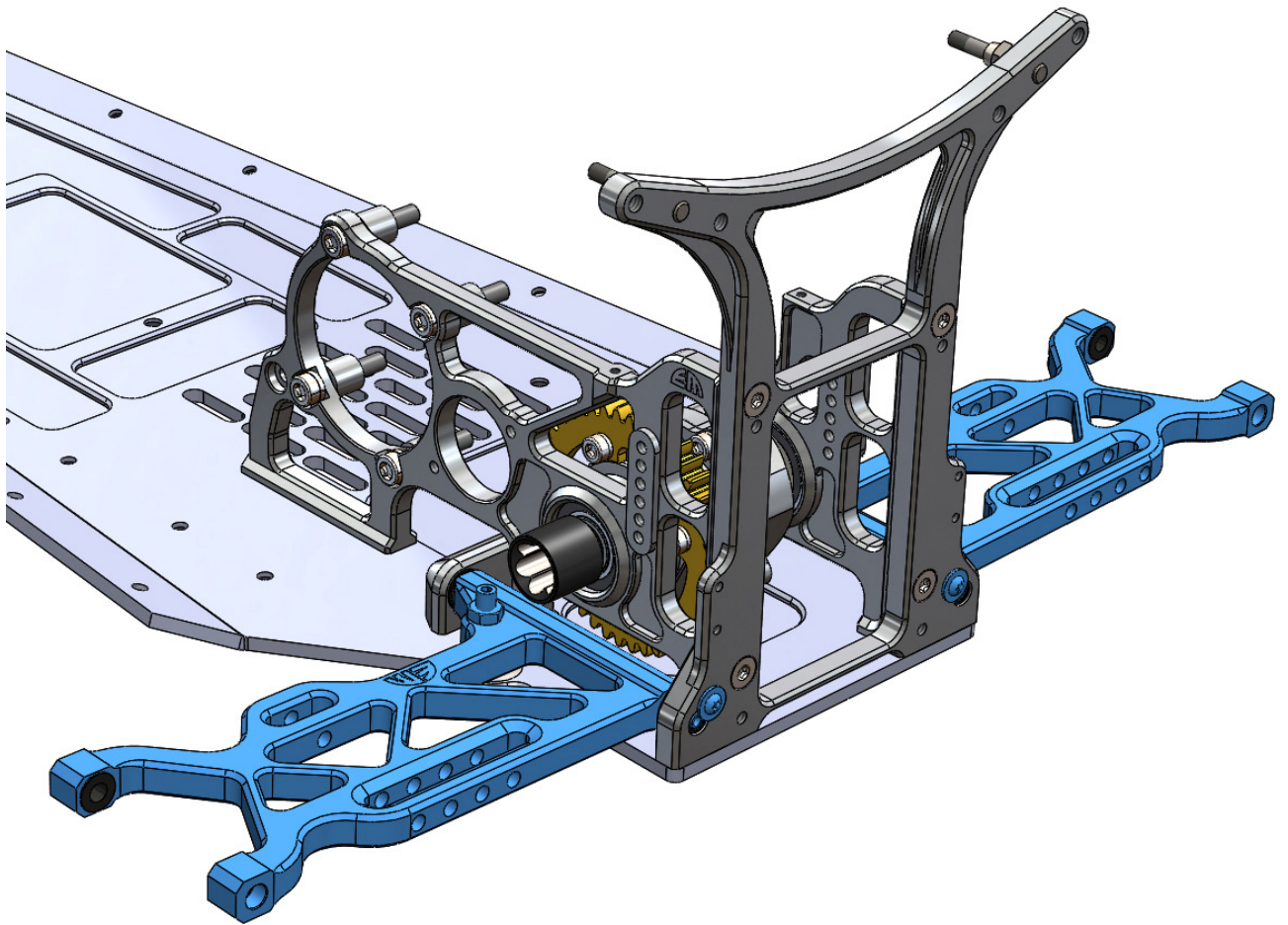
Put the differential in place in the main gear plate and the left dif mount.

Use minor amount of thread lock (loctite blue) on the screws.



Press the plastic bushings into bulkhead B and mount the bulkhead B to the chassis.

Press in the plastic bushings into the rear shock tower and mount the rear shock tower to the main gear plate and the dif mount. Mount the shock quick mounts to the top rear shock tower.

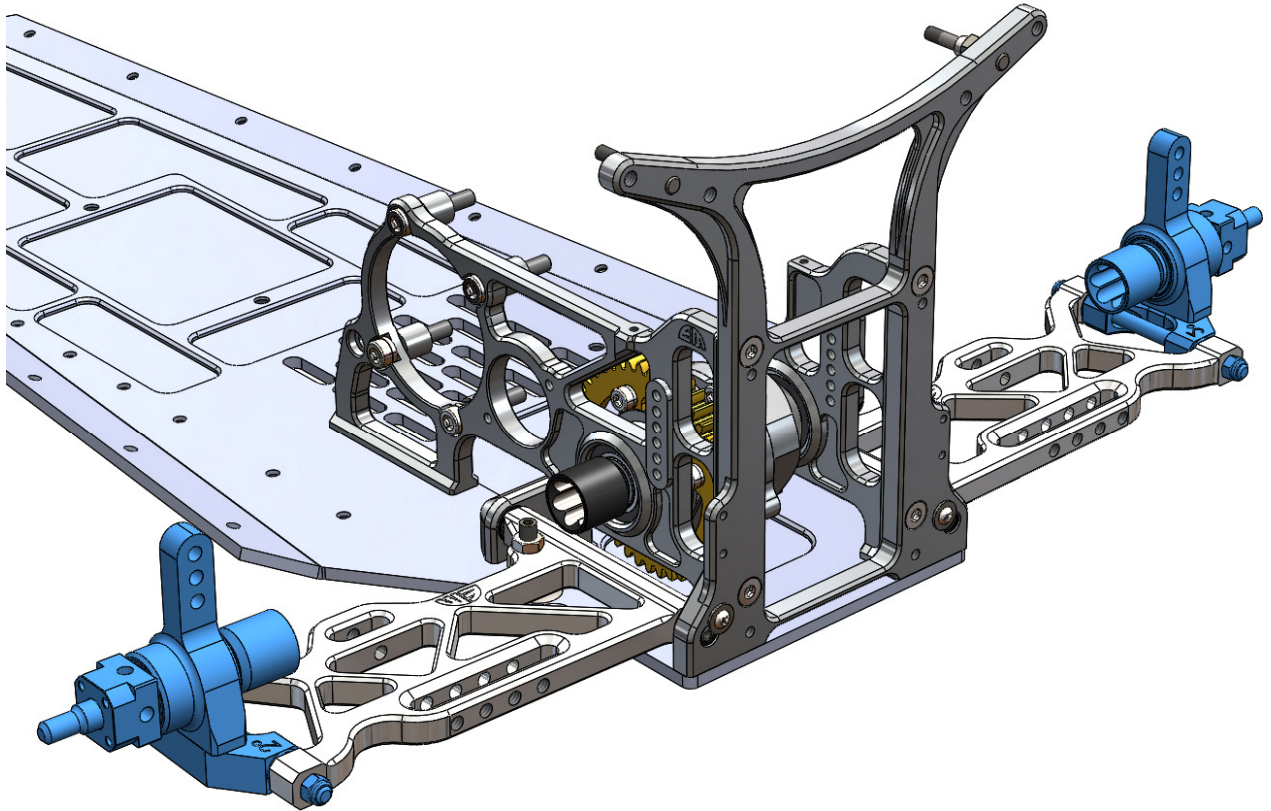


Mount the lower wishbones between the bulkhead and the rear shock tower.

Secure the wishbone pin at the rear of the shock tower using the ring and small M3 bolt.

Mount the travel limiting bolt into the wishbone.

(In case of alloy wishbone first press in plastic bushings into the wishbone, displayed is the alloy wishbone.)



Take the upright and mount the bearings into the upright, place the distance bushing inbetween the bearings.

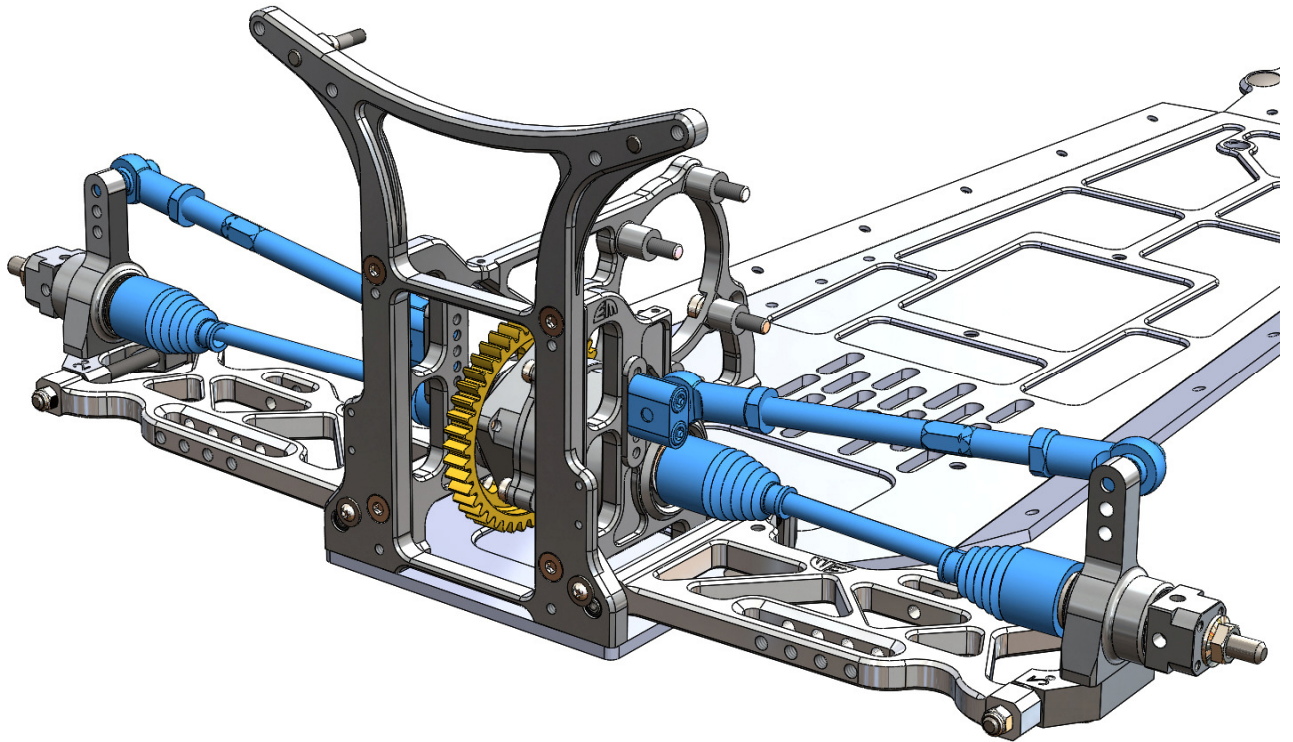
Put through the wheel shafts and Mount the wheel squares to the wheel shafts, secure well with thread lock.

Mount the upright onto the toe-in insert blocks (no loctite) with the screws and spring rings.

Place the complete assembly of upright with toe-in insert block into the wishbone.

Secure the outer wishbone pin with the nyloc nuts.

Pay attention not to over tighten the nyloc nuts. The toe-in insert block must be able to rotate free.



Place the conical springs into the dif cup and wheel cup.

Put some grease into the slots of the difcup and wheel cup

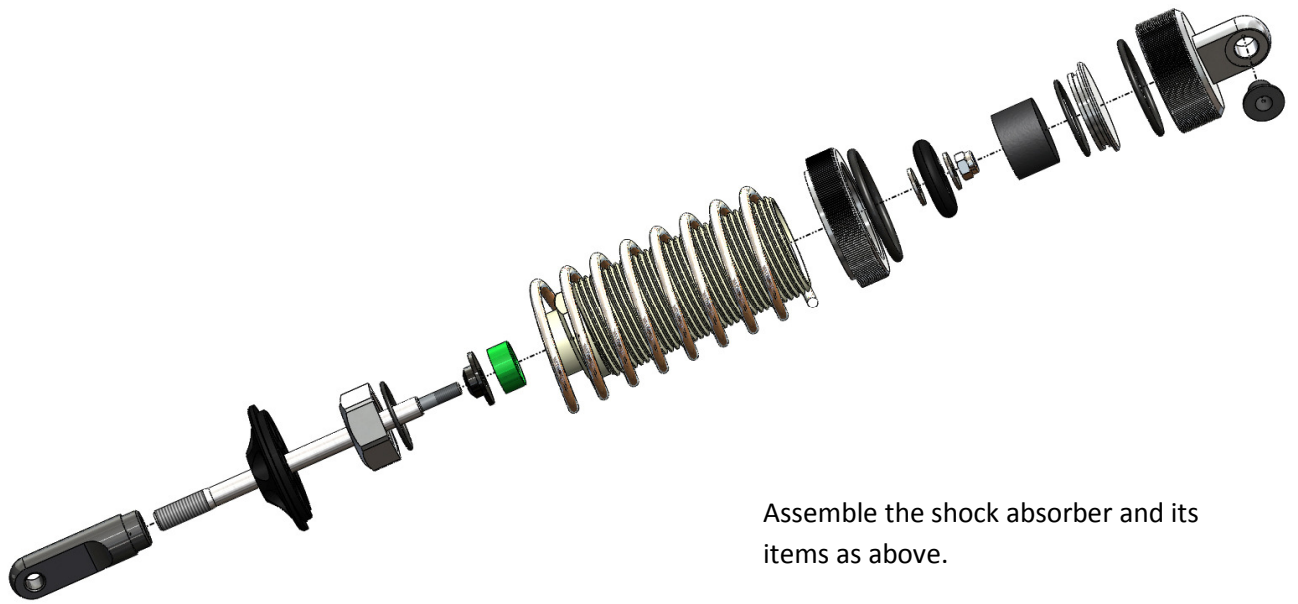
Place grommets on the drive shaft and insert the 5mm balls into the drive shafts.

Place the drive shafts into the difcup and wheel cup.

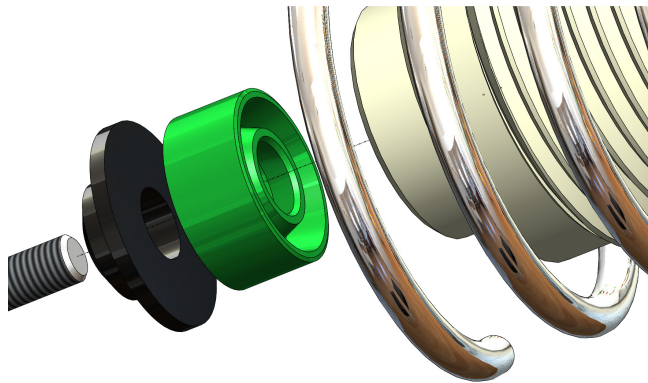
Assemble the upper wishbones with flat nuts and steel ball joints.

Mount the upper wishbone mounts at the difmount and main gear plate.

Mount the upper wishbone to the upper wishbone mount and the upright.

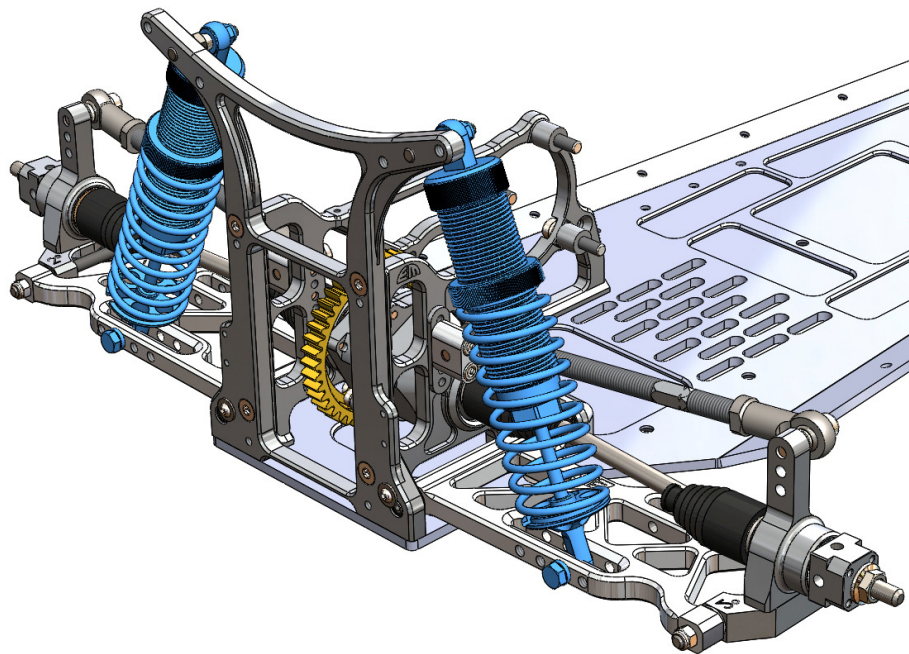


Assemble the shock absorber and its items as above.



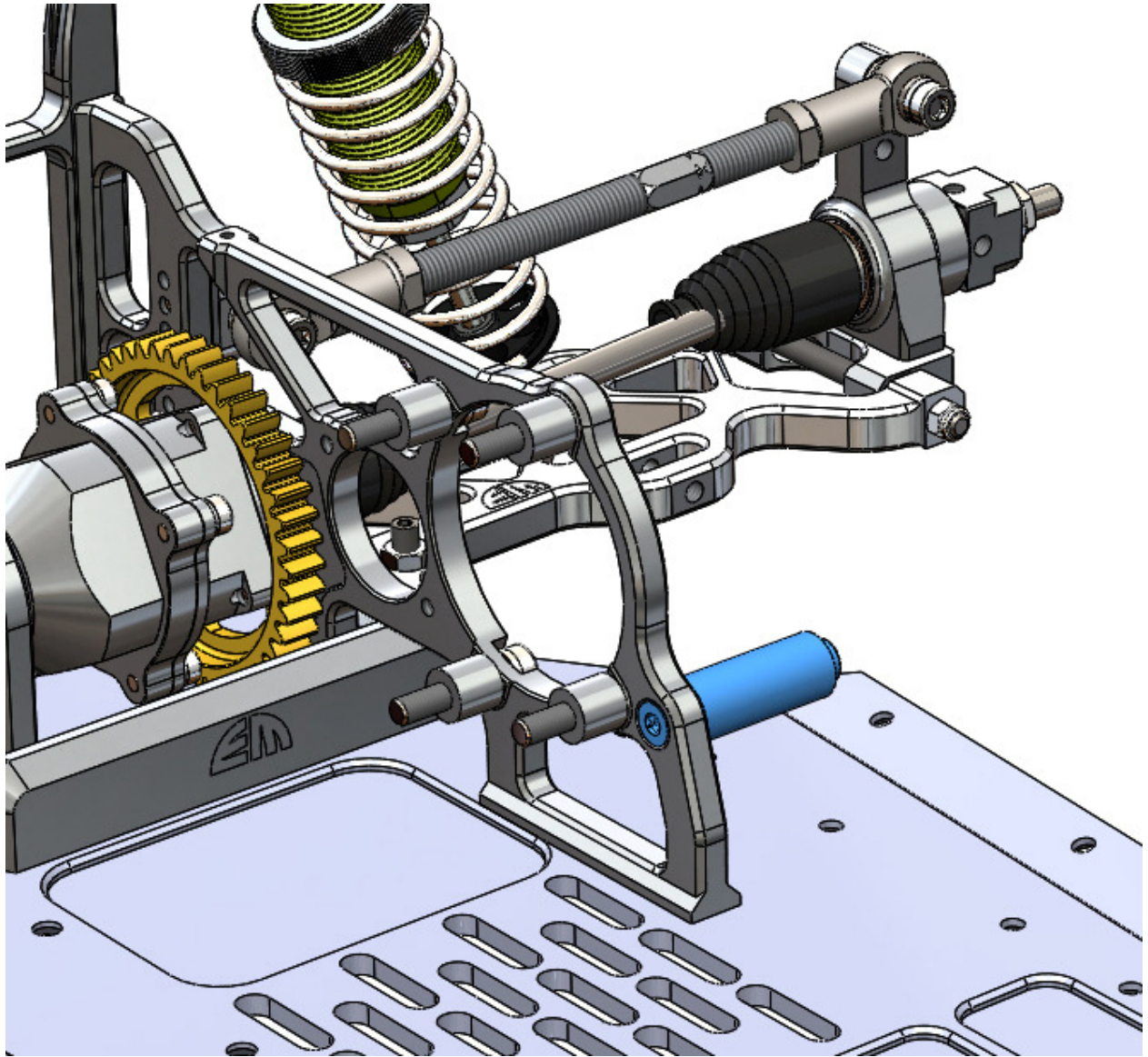
Pay attention to a correct orientation of the shock seal. See the detail on the left.

Fill the shocks with the delivered oil. See our pages for alternative pistons and oils.



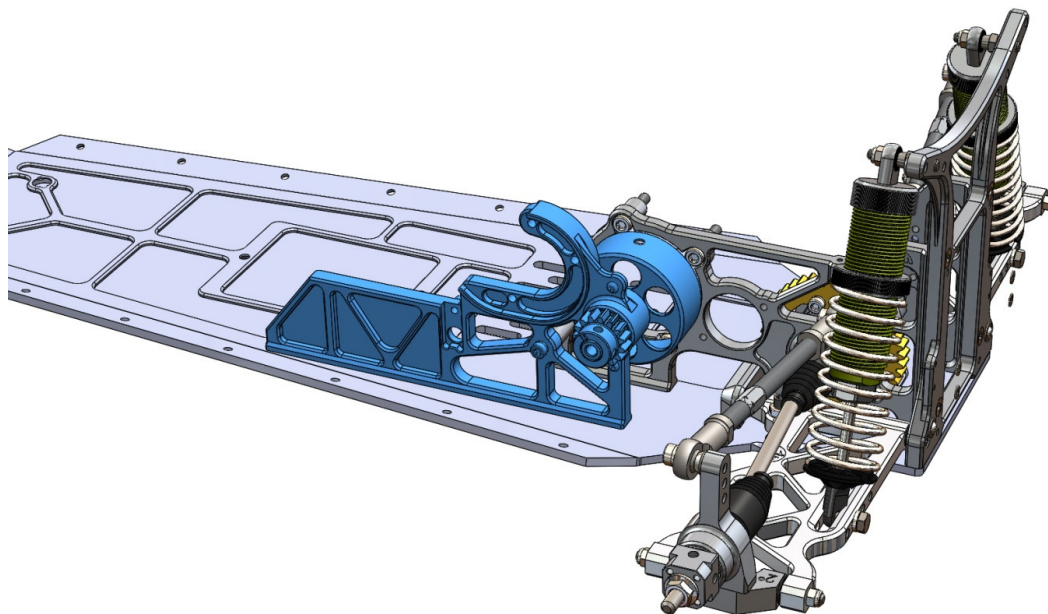
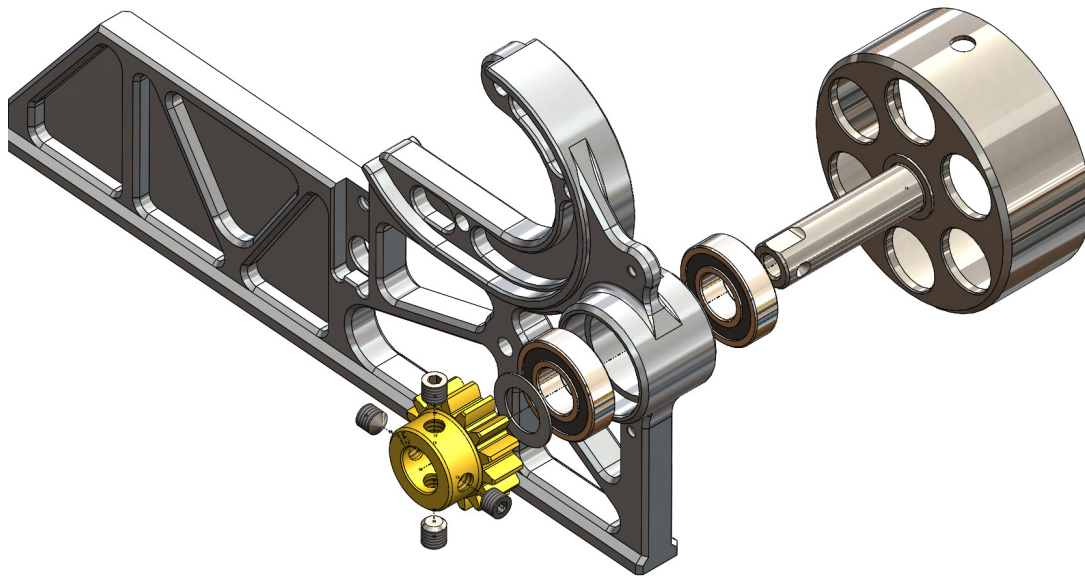
Mount the assembled shock absorbers to the car.





Mount the distance bush onto the main gear plate using threadlock (loctite blue).

You can also insert in this step the 4 bolts for assembly of the engine.

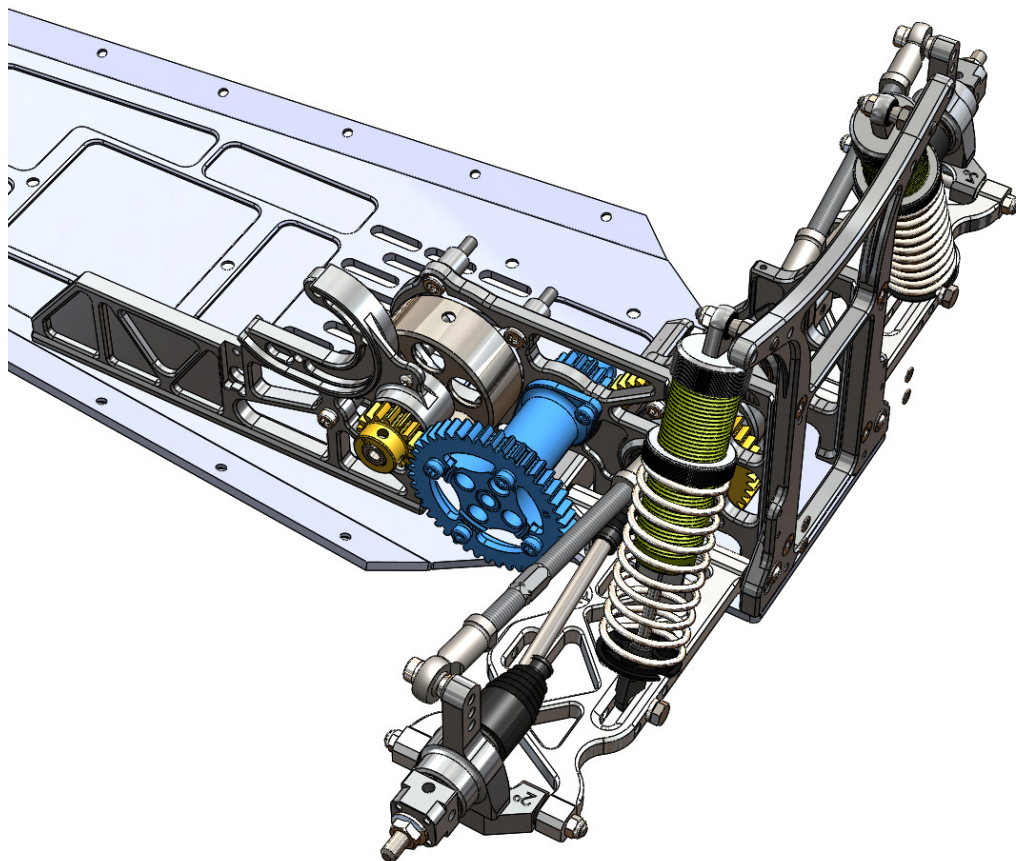
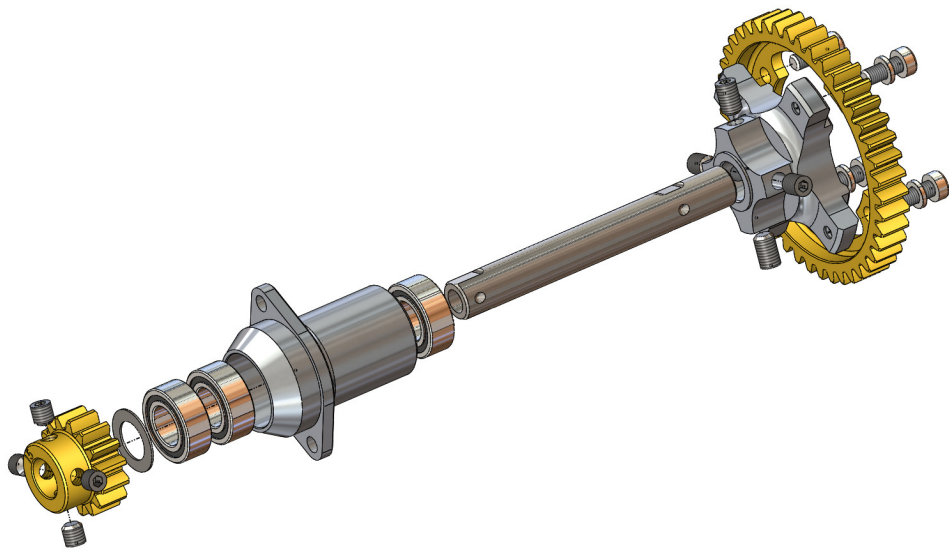


Place the bearings into their seat on the secondary gear plate.

Place the clutch bell through the bearings.

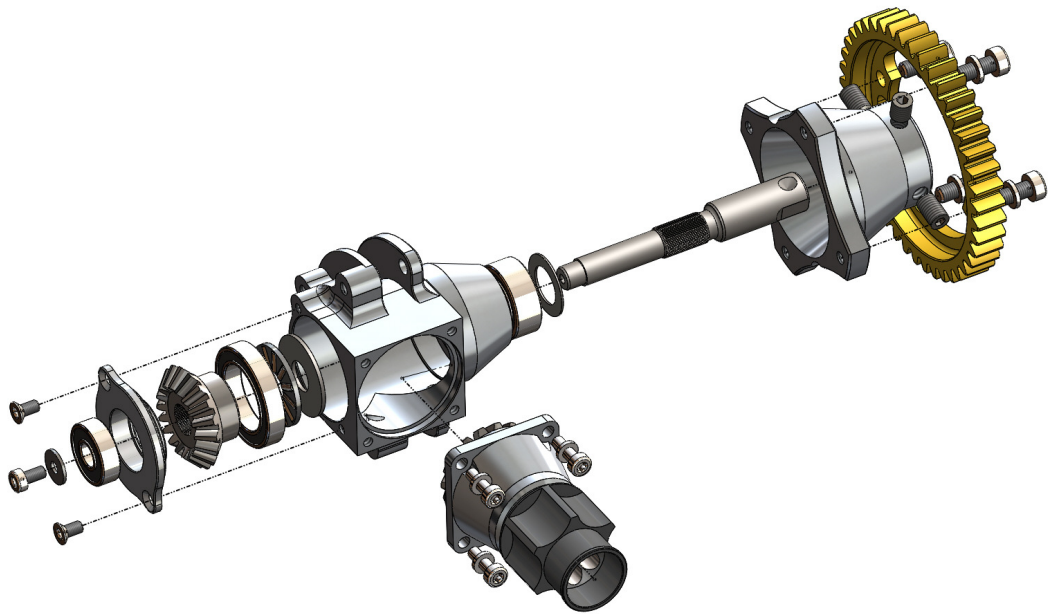
Mount the 15T pinion gear onto the clutch bell (place shims when necessary).

Mount the secondary gear plate onto the main chassis and secure the gear plate to the distance bush between the main and secondary gear plate.

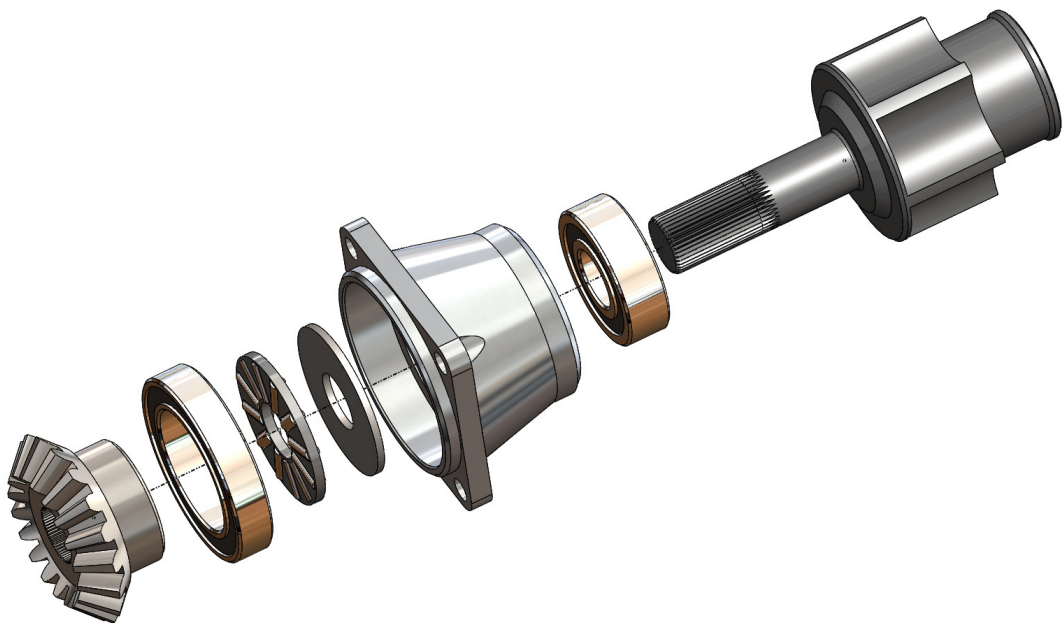


Assemble the layshaft with layshaft holder, layshaft gears and gear carrier.

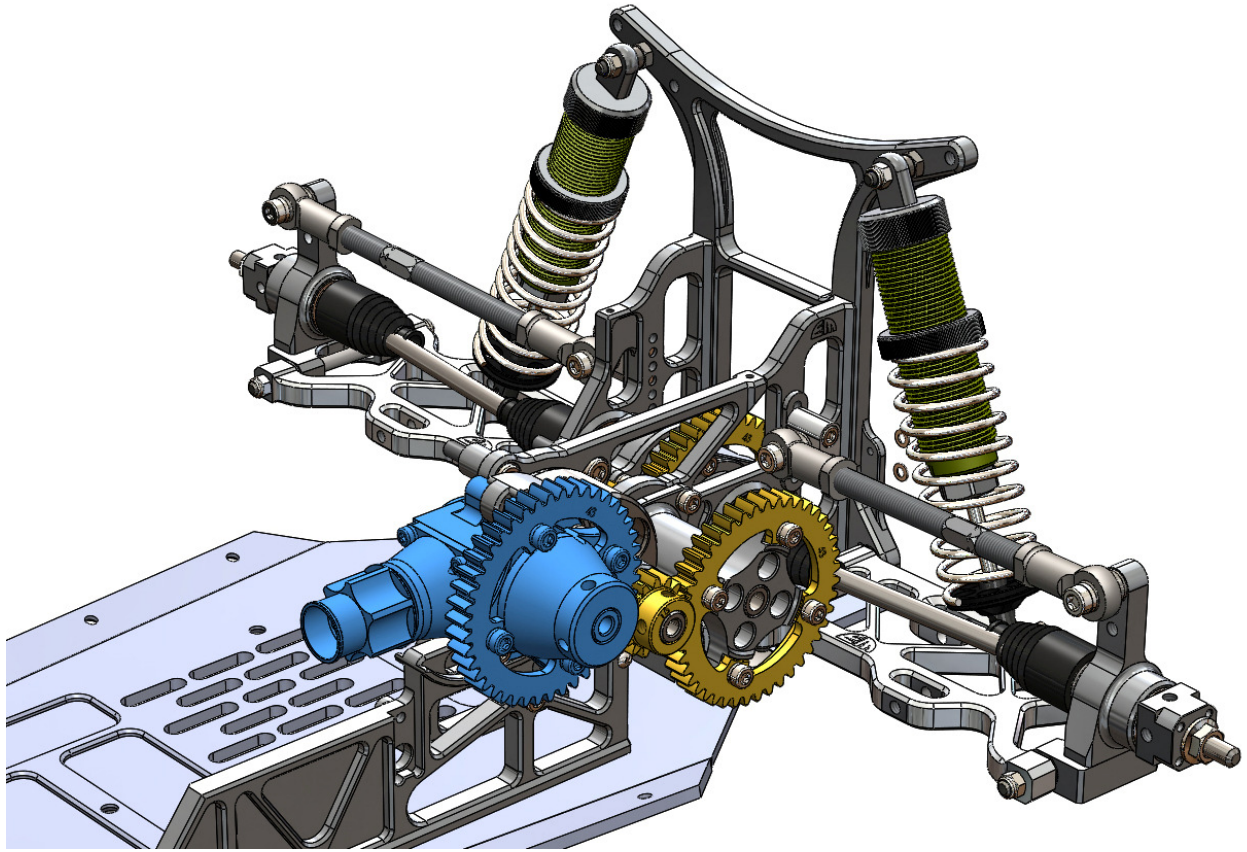
Put the layshaft assembly in place at the main gear plate.



Explosion of the rear gearbox (already assembled delivered).

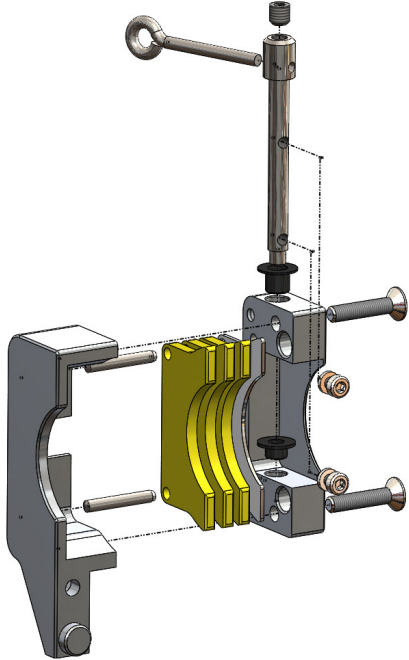


Explosion of rear output shaft of the gear box (already assembled delivered).

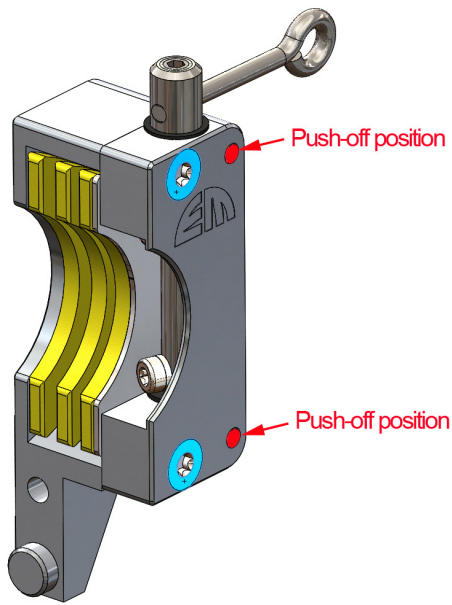


Take the pre-build gearbox and place it in the second gear plate.

Mount the gear to the gear carrier and the axle of the gear box.



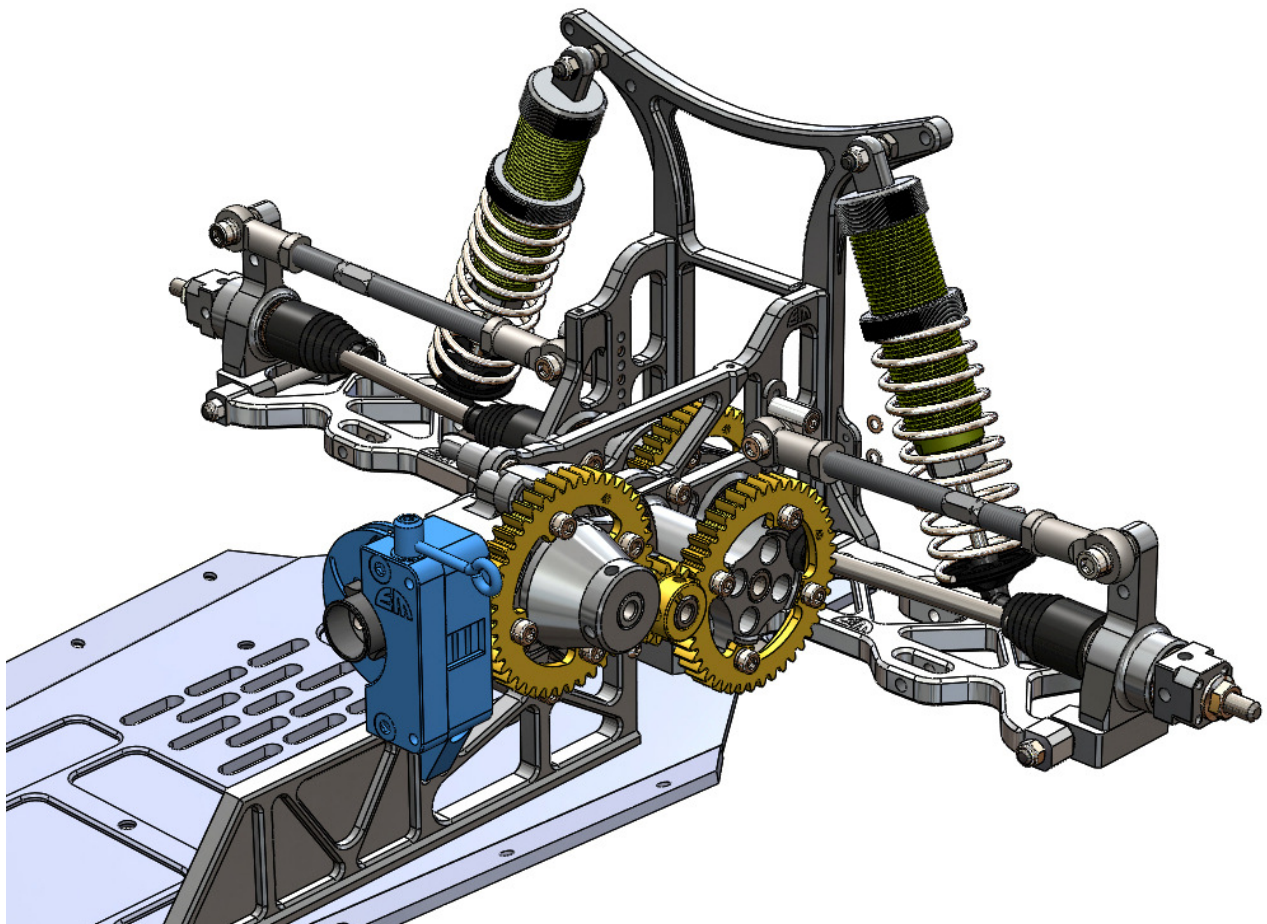
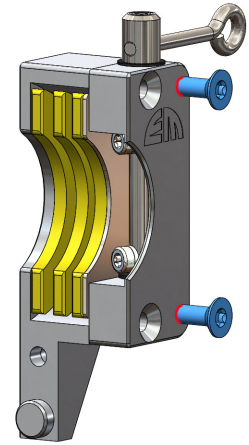
Assembly of the central brake (explosion).



Assemble the brake as displayed on the left.

Note the iron pressure plate is situated at the central axle of the brake.

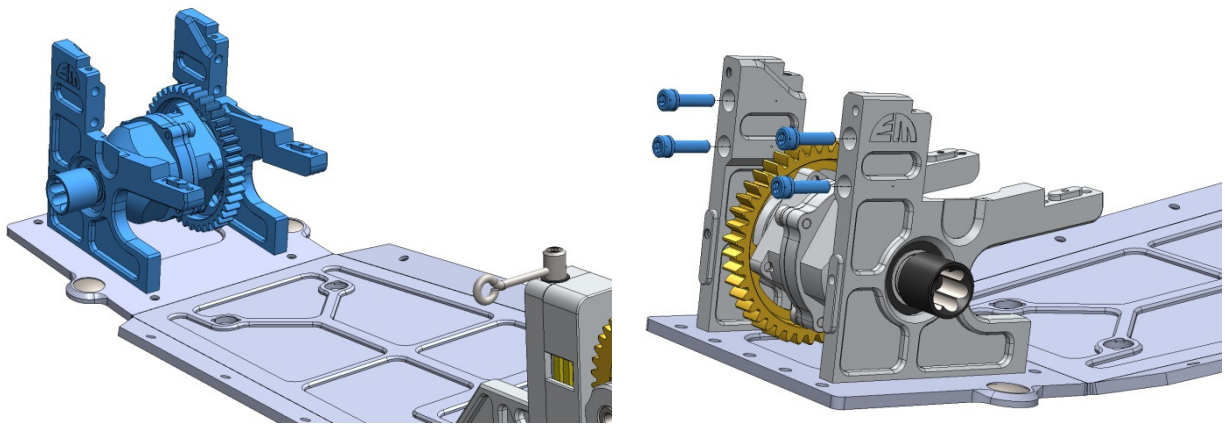
In case of maintenance you can use the extra M4 holes as displayed on the right side for easy dividing of the 2 brake housings.



Slide the brake discs over the drive cup (pay attention to remove any sharp edges or burrs from the disc)

Place the brake assembly in the second gear plate and secure with bolt.

## Front assembly

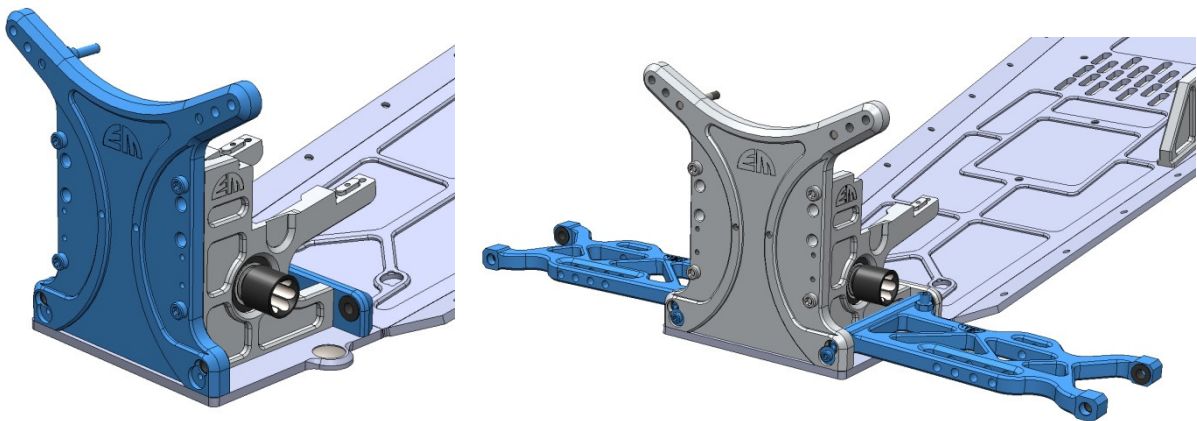


Start with mounting the gear to the differential.

Place differential between left and right dif Mount and secure to the chassis.

Place 4 bolts with spring rings into the 4 holes,

**NOTE:** these bolts and spring rings you find in the package of the front gearbox.

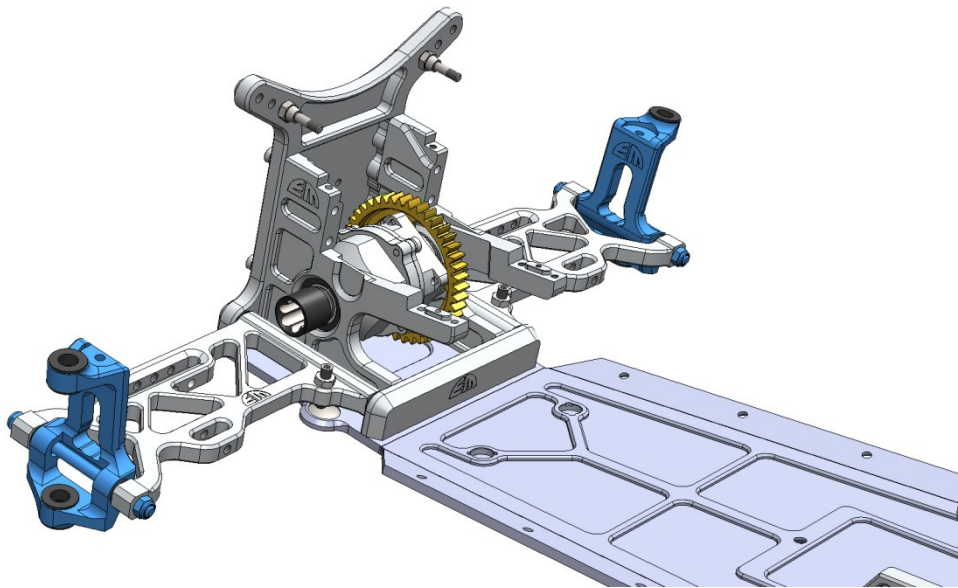


Press in the plastic bushing at the front shock tower and B-bulkhead and mount both items in place.

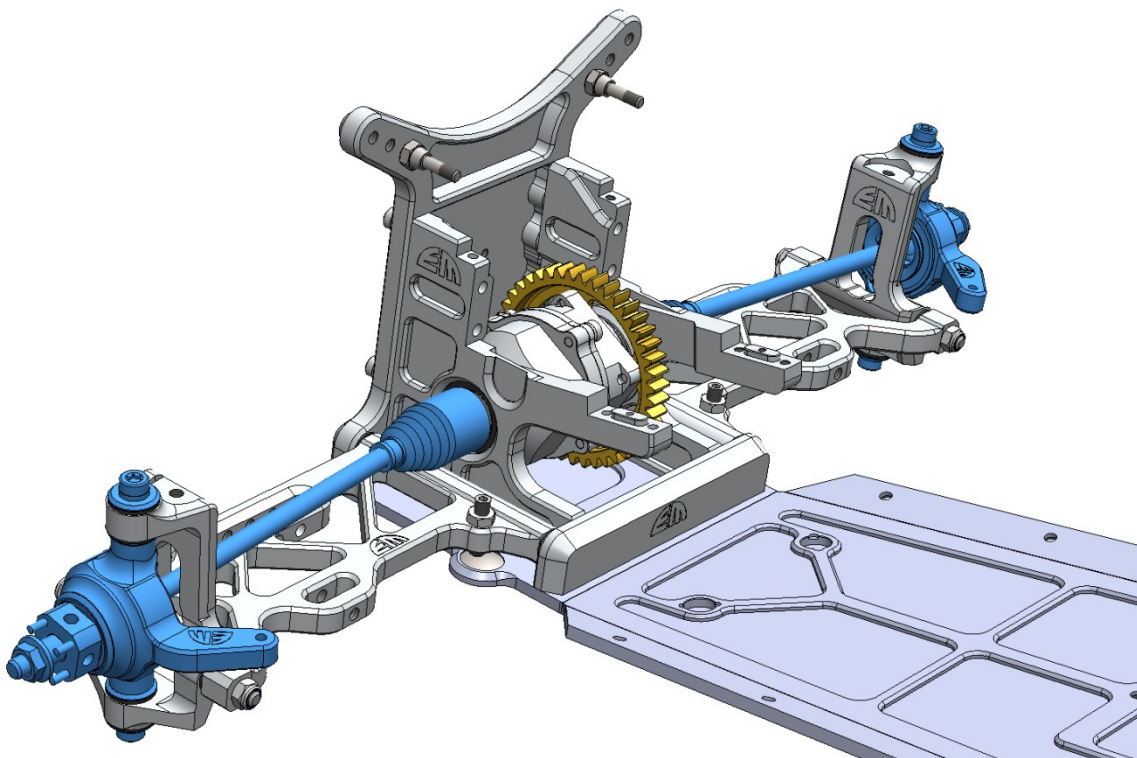
The front shock tower is at this stage only secured to the chassis at the outer holes (leave the 3 holes in the middle free at this stage)

Mount the lower wishbones between the shock tower and B-bulkhead using the wishbone pins.

Secure the wishbone pins with the small M3 bolt and ring.



Press the plastic bushings into the C-hubs and Mount the C-hubs with the wishbone pins.



Insert the bearings into the uprights.

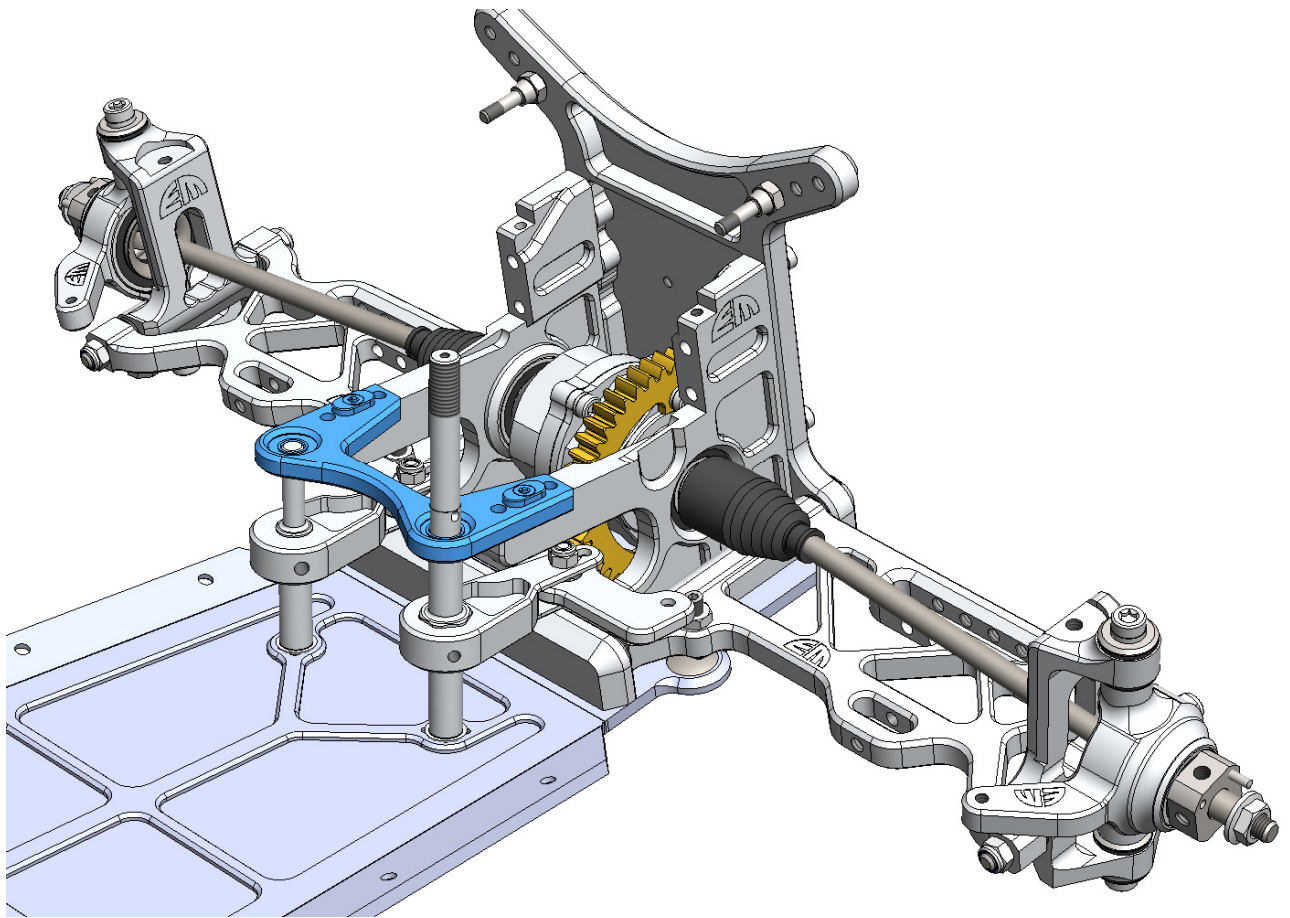
Assemble the CVD drive system into the uprights, mount the wheel squares, insert balls in the ball drive.

Insert the pivot bushings on the inside of the C-hubs, insert conical spring in dif cup.

Put the assembly of the upright and CVD system in the C-hub.

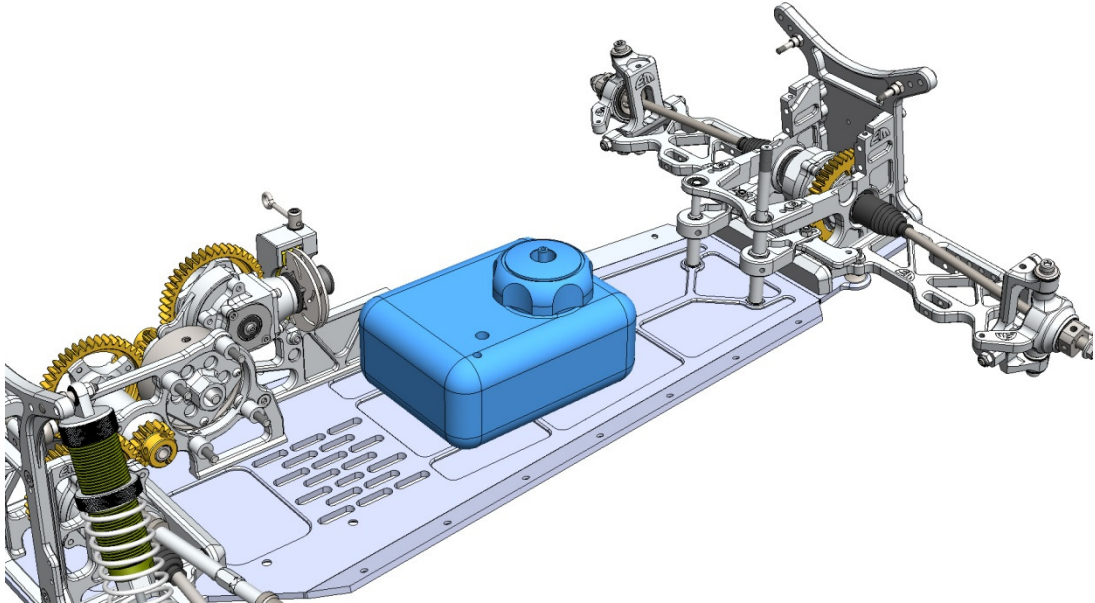
Place on top and bottom the pivot discs and fix with the M5 bolt and spring washer, use some threadlock (blue).



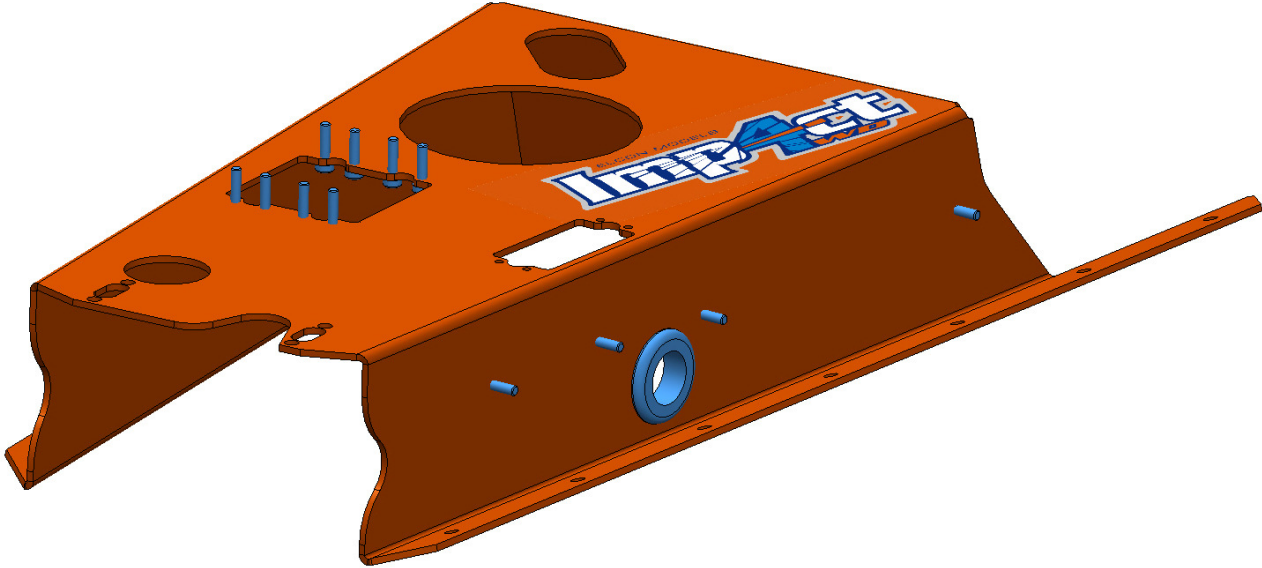


Place the bearings into the M-plate and Mount the M plate to the dif mounts.

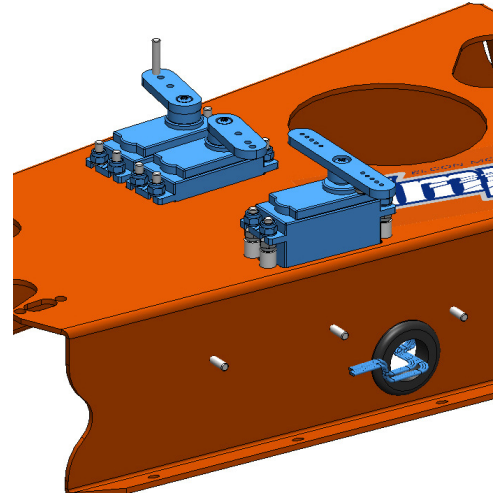
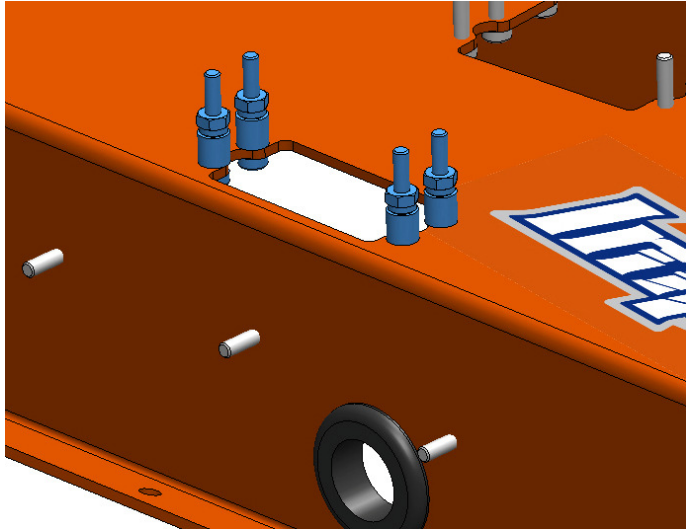
### Mid section assembly



Mount the fuel tank to the chassis in length direction.

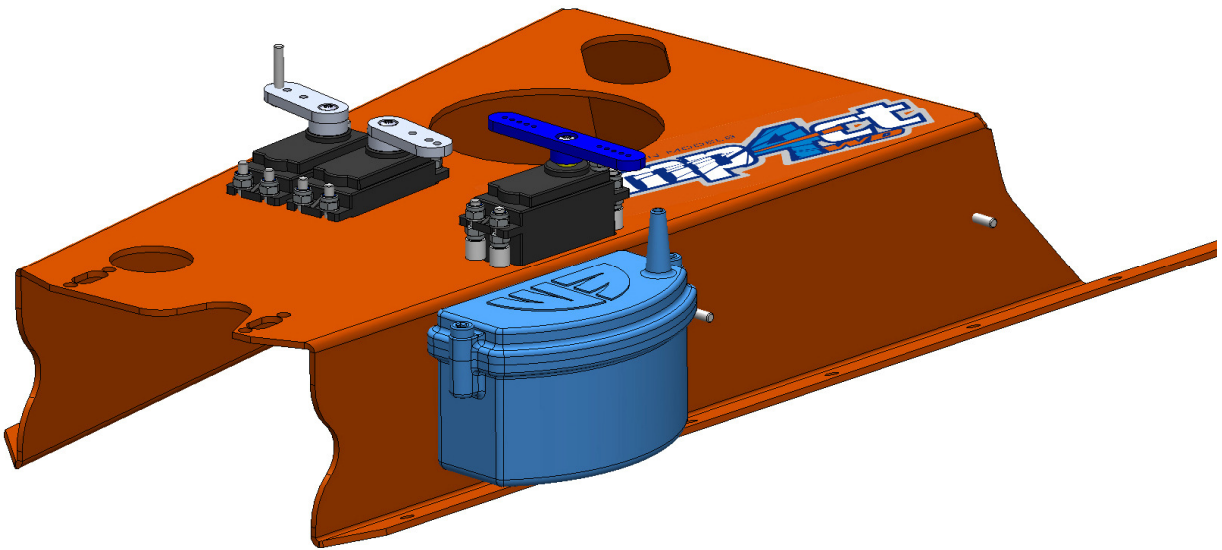


Mount the M3x12 bolts as marked from under the upper deck as displayed above and place the rubber donut in the hole.

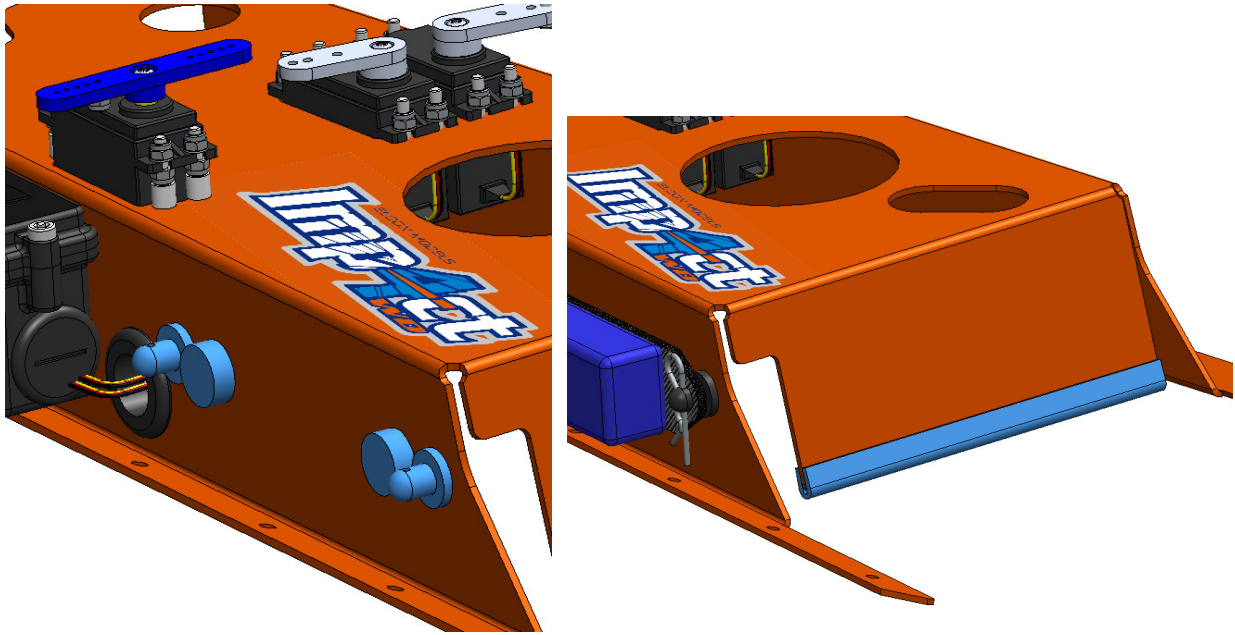


For the throttle break servo Mount the longer M3x16 bolts with the 4 white distance bushings. Secure the bushings with the nyloc M3 nuts (left picture)

Place the steering servos + throttle brake servo, the wires will go through the hole.

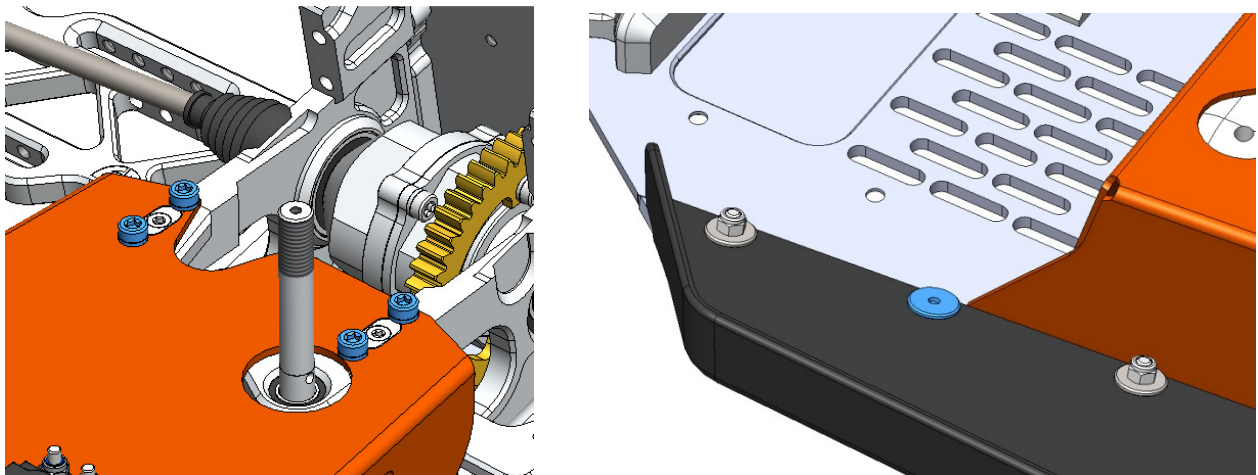


Place the radiobox onto the chassis.



Mount the battery pins and peel of the sticker from the rubber foams and place them on the inside of the two battery pins on the chassis (left picture)

Slide on the rear of the chassis the supplied black rubber protection.



Place the upperdeck over the fuel tank.

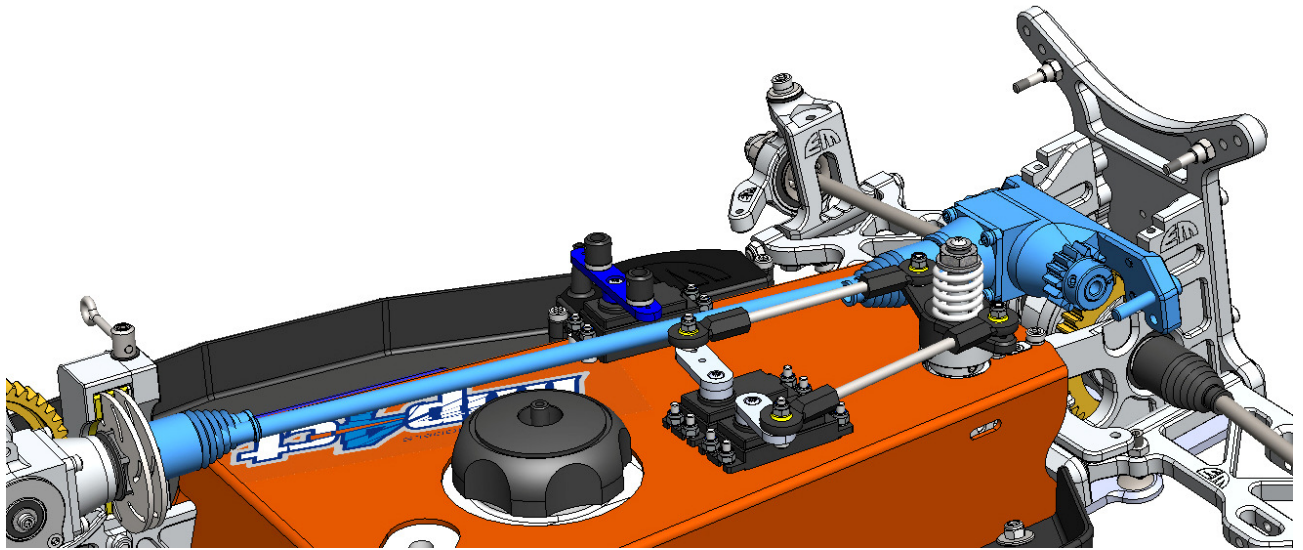
Secure the upper deck at the front to the dif mounts (left picture).

Place the side guards and secure the sideguards to the upper deck and chassis using the special bushings.

**NOTE:** there is 1 bolt which is shorter then the rest. And there is 1 bushing that has an internal thread.

This bushing and shorter bolt are needed to mount at the right side of the car.

See the right picture.



Assemble the pinion gear to the front gear box.

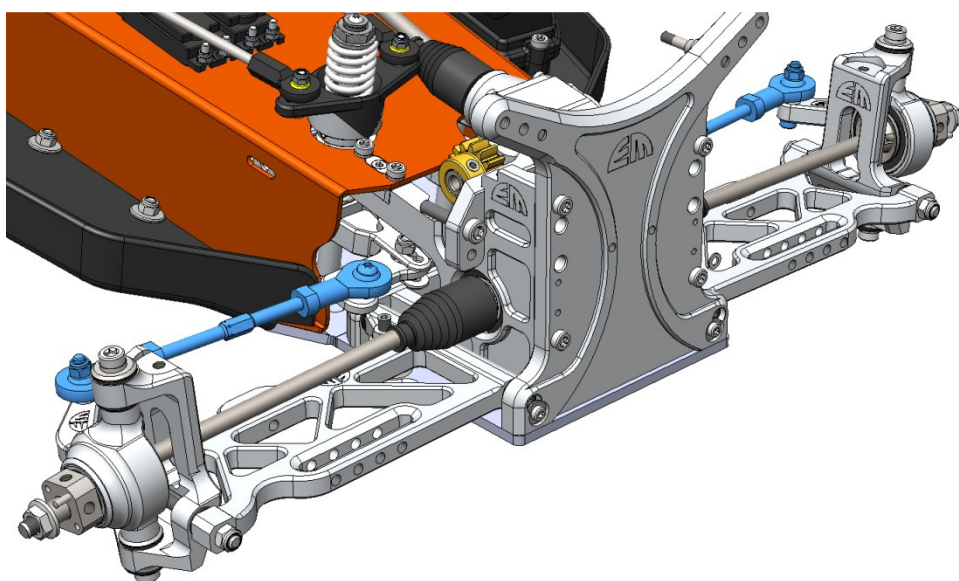
Place the conical springs in the drive cups of the gear boxes, apply grease in the drive cups.

Place the balls in the drive shaft and place the rubber grommets on the center drive shaft.

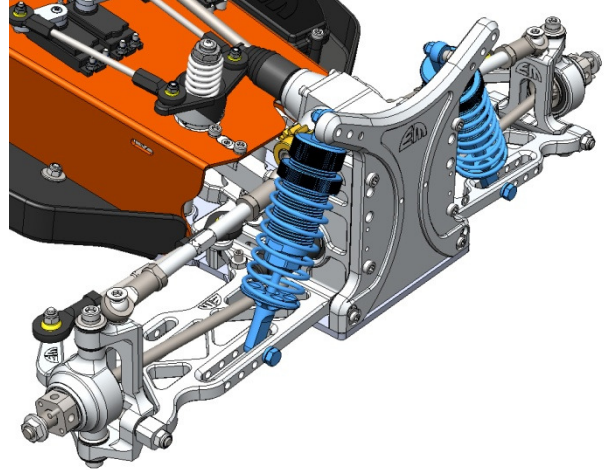
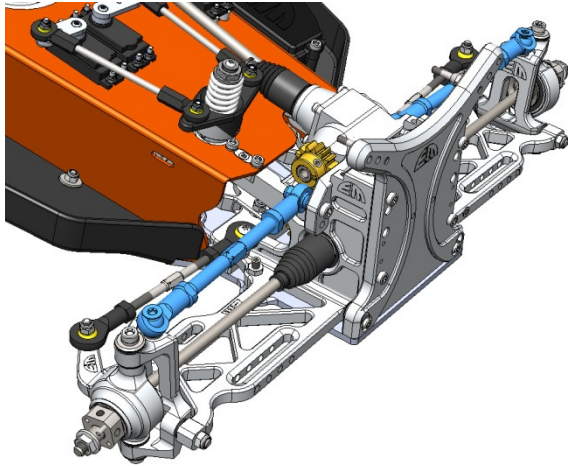
The center drive shaft has a machined ring on one side, this ring should be placed at the rear gearbox.

Place the center drive shaft first in the rear gearbox, place the front gearbox to the center drive shaft.

Now lower the front gear box with the center drive shaft and put in place.

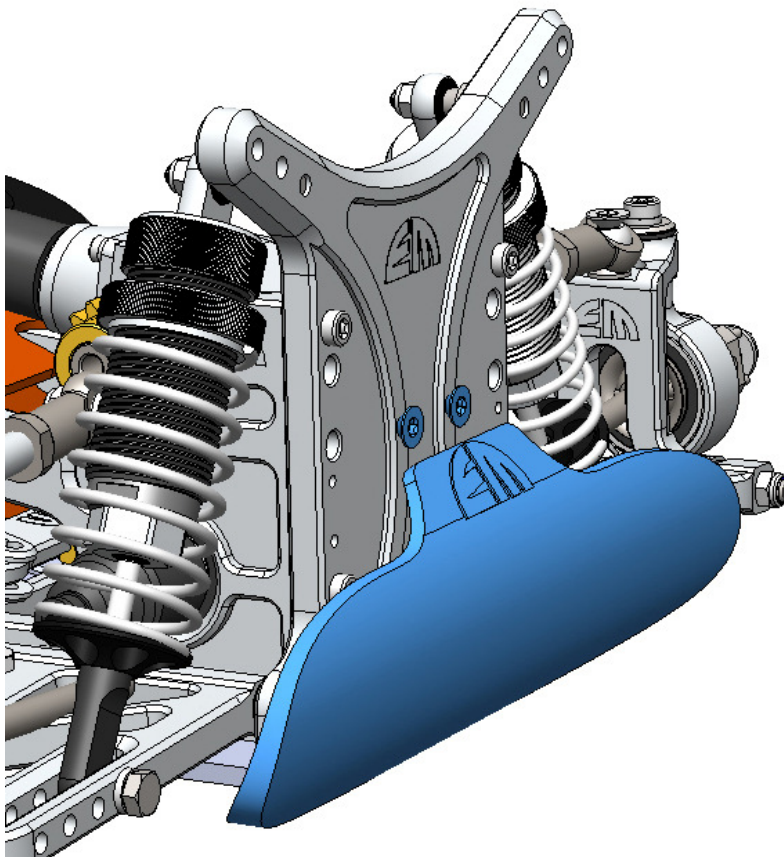


Mount the steering linkages to the steering plate and uprights.



Mount the upper wishbone linkages to the gearbox and C-hub.

Assemble the shock absorbers to the car.



Mount the bumper to the chassis.

Place the 2 short countersunk bolts in the sock tower, secure with a bit of threadlock.