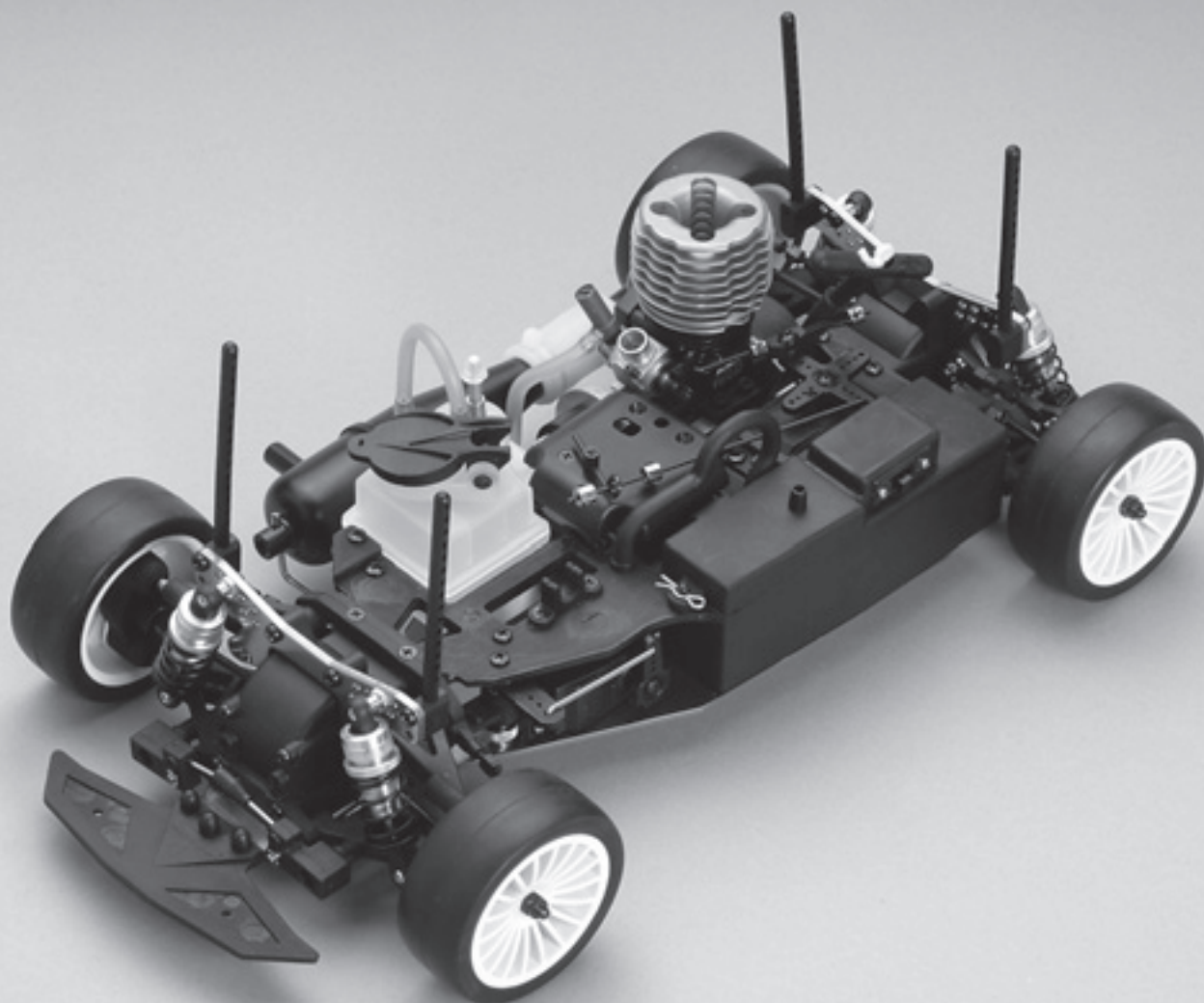


# ST-4

**1/10 scale nitro powered touring car**

**Instruction manual • Bouwhandleiding • Bauanleitung • Instructions de montage**



**PROTECH®**

## Service

### **SAS: Service after sales**

Please note that only faulty manufactures or problems caused by manufacturer faults will be repaired on the account of SAS. It is not possible to claim warranty if the problem is caused by misuse of this product.

#### **SAS INTERNATIONAL PROTECH**

**TEL: ++ 32 14 25 92 83**

**FAX: ++ 32 14 25 92 89**

**E-mail: [info@promodels.be](mailto:info@promodels.be)**

**<http://www.protech.be>**

Please use the spare parts list at the back of this manual to help you find the part more easily.

PROTECH cannot be held responsible for damage or any claims arising from the use of this product.

### **SNV: Service na verkoop**

Alléén productiefouten of problemen veroorzaakt door een productiefout zullen op rekening van de SNV hersteld worden. Er kan nooit aanspraak gemaakt worden op een gratis herstelling door de SNV als de problemen voortkomen uit een verkeerd gebruik van het product.

#### **SNV INTERNATIONAAL PROTECH**

**TEL: ++ 32 14 25 92 83**

**FAX: ++ 32 14 25 92 89**

**E-mail: [info@promodels.be](mailto:info@promodels.be)**

**<http://www.protech.be>**

Om het zoeken van het onderdeel dat u nodig hebt te vergemakkelijken, gelieve de onderdelenlijst op pagina 25-26 van deze handleiding te raadplegen.

PROTECH kan niet verantwoordelijk gesteld worden voor schade of vorderingen voortvloeiend uit het gebruik van dit product

### **KD : Kundendienst**

Nur Herstellungsfehler oder durch Herstellungsfehler verursachte Probleme werden für Rechnung des KD repariert. Die Garantie kann nicht in Anspruch genommen werden, wenn das Problem auf eine unsachgemäße Verwendung des Erzeugnisses zurückzuführen ist.

#### **KD INTERNATIONAL PROTECH**

**TEL: ++ 32 14 25 92 83**

**FAX: ++ 32 14 25 92 89**

**E-mail: [info@promodels.be](mailto:info@promodels.be)**

**<http://www.protech.be>**

Bitte verwenden Sie die in diesem Anweisungsheft auf Seite 25-26 abgedruckten Diagramme, um die Ersatzteile zu finden, die Sie benötigen.

PROTECH kann nicht für Schäden oder Ansprüche haftbar gemacht werden, die sich aus der Verwendung dieses Produkts ergeben.

### **SAV: Service après vente**

Ne seront prises en charge par le SAV, que les pièces présentant un vice de fabrication. En aucun cas, la mauvaise utilisation du produit ne peut engendrer un SAV gratuit.

#### **SAV INTERNATIONALE PROTECH**

**TEL: ++ 32 14 25 92 83**

**FAX: ++ 32 14 25 92 89**

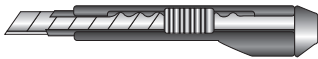
**E-mail: [info@promodels.be](mailto:info@promodels.be)**

**<http://www.protech.be>**

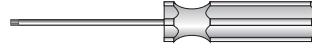
Afin de faciliter la recherche de vos pièces détachées, veuillez consulter la liste des pièces détachées en fin de cette notice

PROTECH ne peut pas être rendu responsable pour des dégâts provenant de l'utilisation de ce produit.

**Tools & products required for maintenance / Benodigde gereedschappen en producten  
Benötigte Werkzeuge und Produkte / Outils & produits recommandés pour la maintenance**

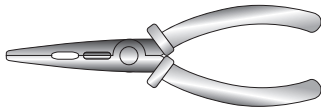


Sharp hobby knife  
Scherp hobbymes  
Hobby Messer  
Couteau de modéliste

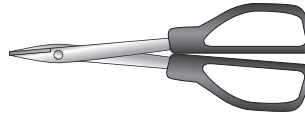


Hexwrench set  
Set inbussleutels  
Sechskant-Steckschlüssel  
Set clés allen

**PT400 4pcs**

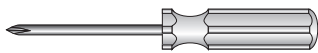


Needle nose plier  
Bektang  
Beiszange  
Pince à becs

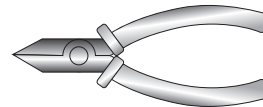


Curved scissors  
Gebogen schaar  
Gebogene Schere  
Ciseaux

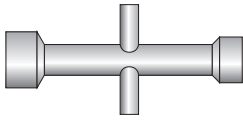
**AK100**



Philips screw driver  
Kruisschroevendraaier  
Schraubendreher  
Tournevis Philips



Wire cutter  
Draadstripper  
Kneifzange  
Pince coupante



Cross wrench  
Kruissleutel  
Kreuzschlüssel  
Clé en croix



**A600** Nut lock, 15g



**SL002** Quick cleaner, 500ml

Efficient fast drying cleaner for engines, differentials, gears, drive shafts, ....  
Removes easily all oil and greases.



**SL003** Magic spray, 400ml

Clean & renews all plastic parts.  
This product is water, dust and mud repellent.



**LX906** Air filter oil, 50ml

Special oil for foam filters only.  
The oil is applied on the foam filter by squeezing the foam. The oil becomes sticky to provide optimal dust filtering.



**D14101** Daytona fuel CAR  
10% nitro, 1L



**P10003** PROTECH performance glow plug P3, MEDIUM

**Chassis & body / Chassis en carrosserie  
Chassis und Karosserie / Châssis et carrosserie**

**T0836.1**

Porsche 911  
Chassis + Body

**T0833.1**

BMW M3  
Chassis + Body

**T0838.1**

Subaru Impreza WRC  
Chassis + Body

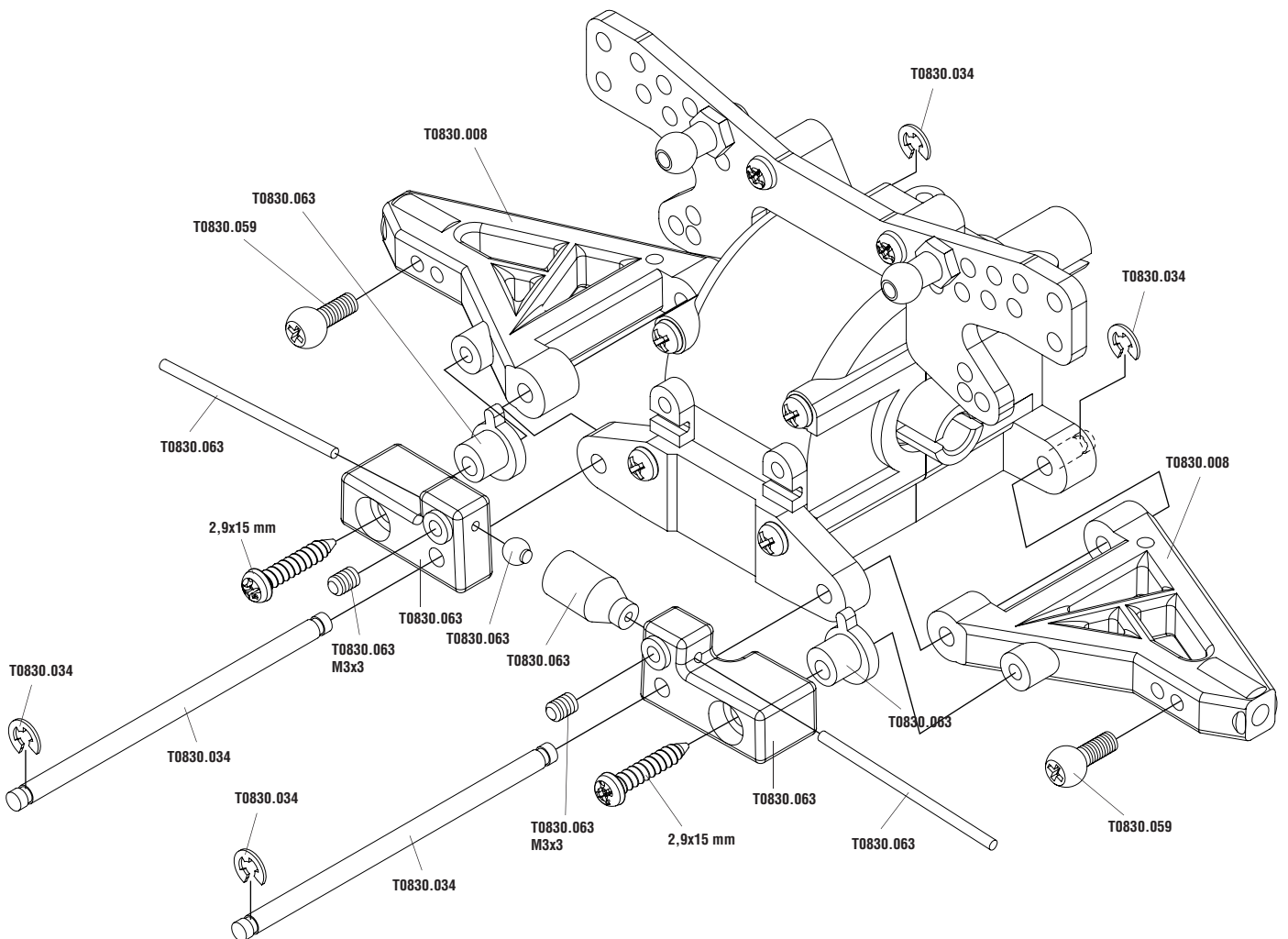
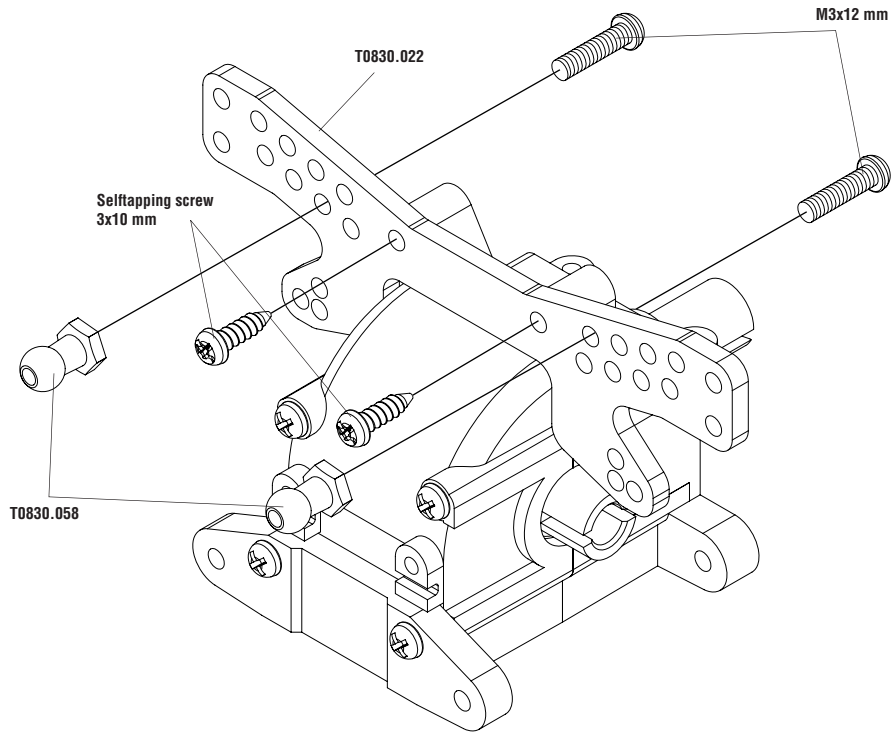
**T0831.1**

Renault Clio V6  
Chassis + Body



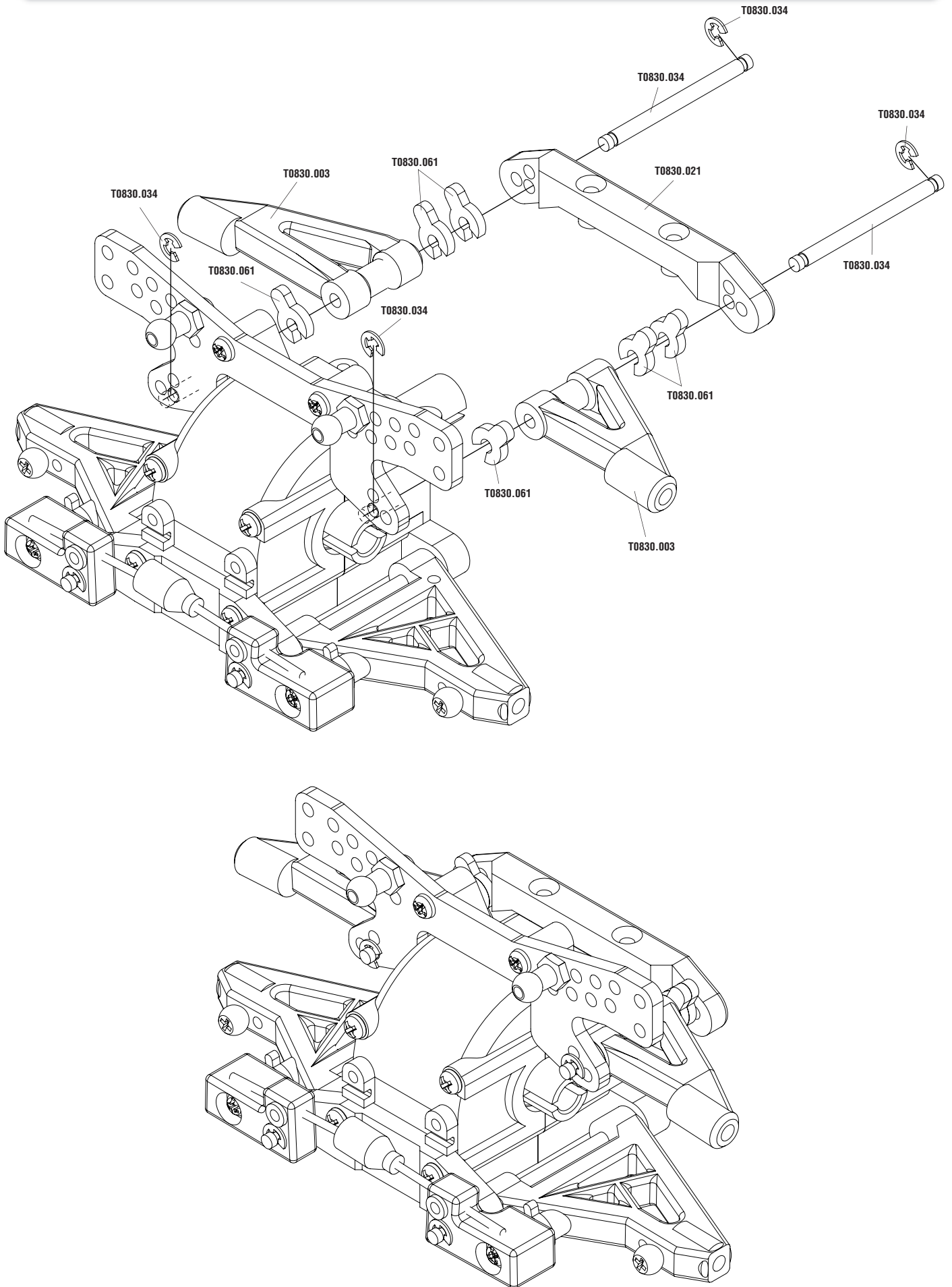


**Mounting the front suspension arms / Montage van de voorste ophanging  
 Montierung von die Querlenker vorne / Assemblage du train avant**



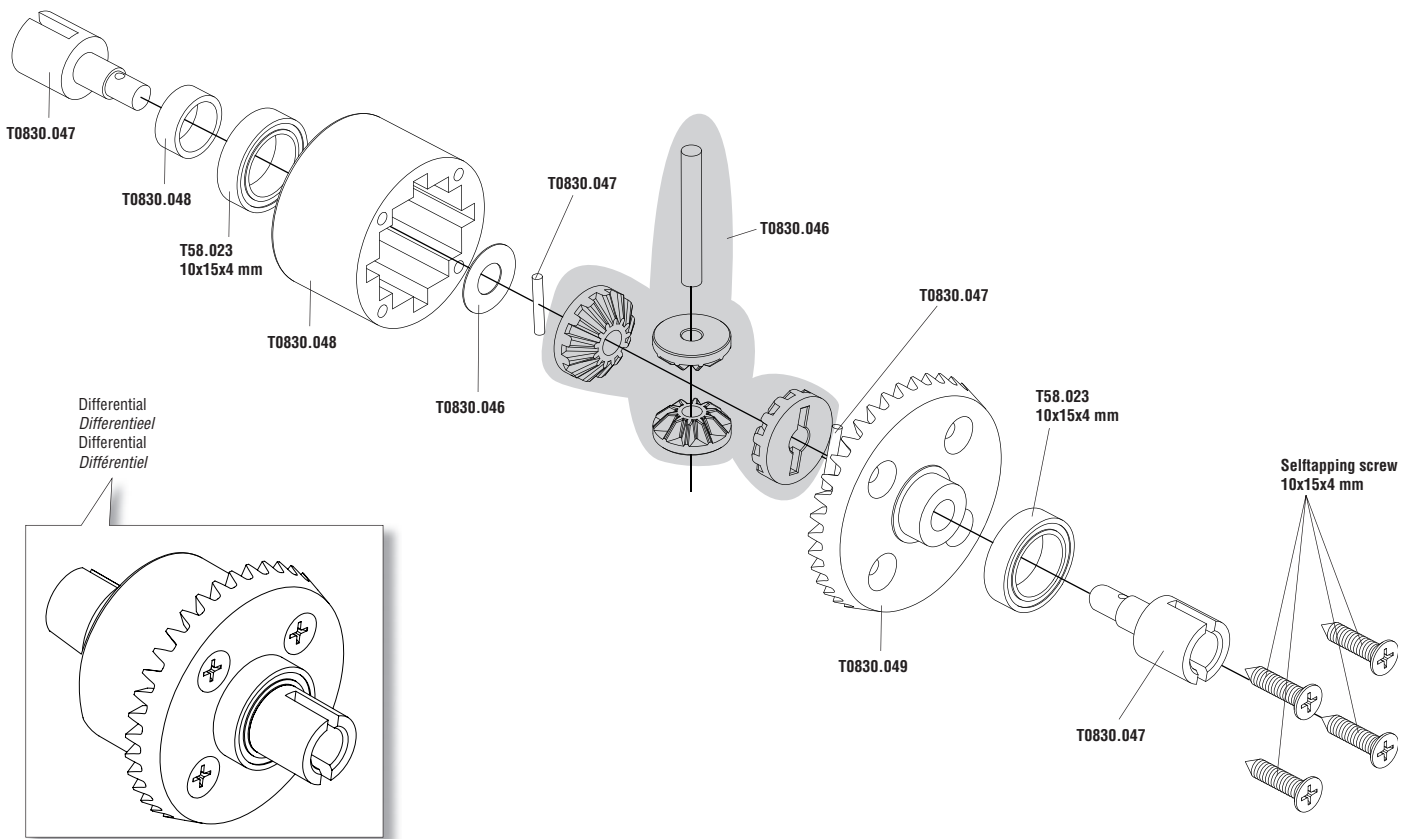


**Mounting the front suspension arms / Montage van de voorste ophanging  
Montierung von die Querlenker vorne / Assemblage du train avant**

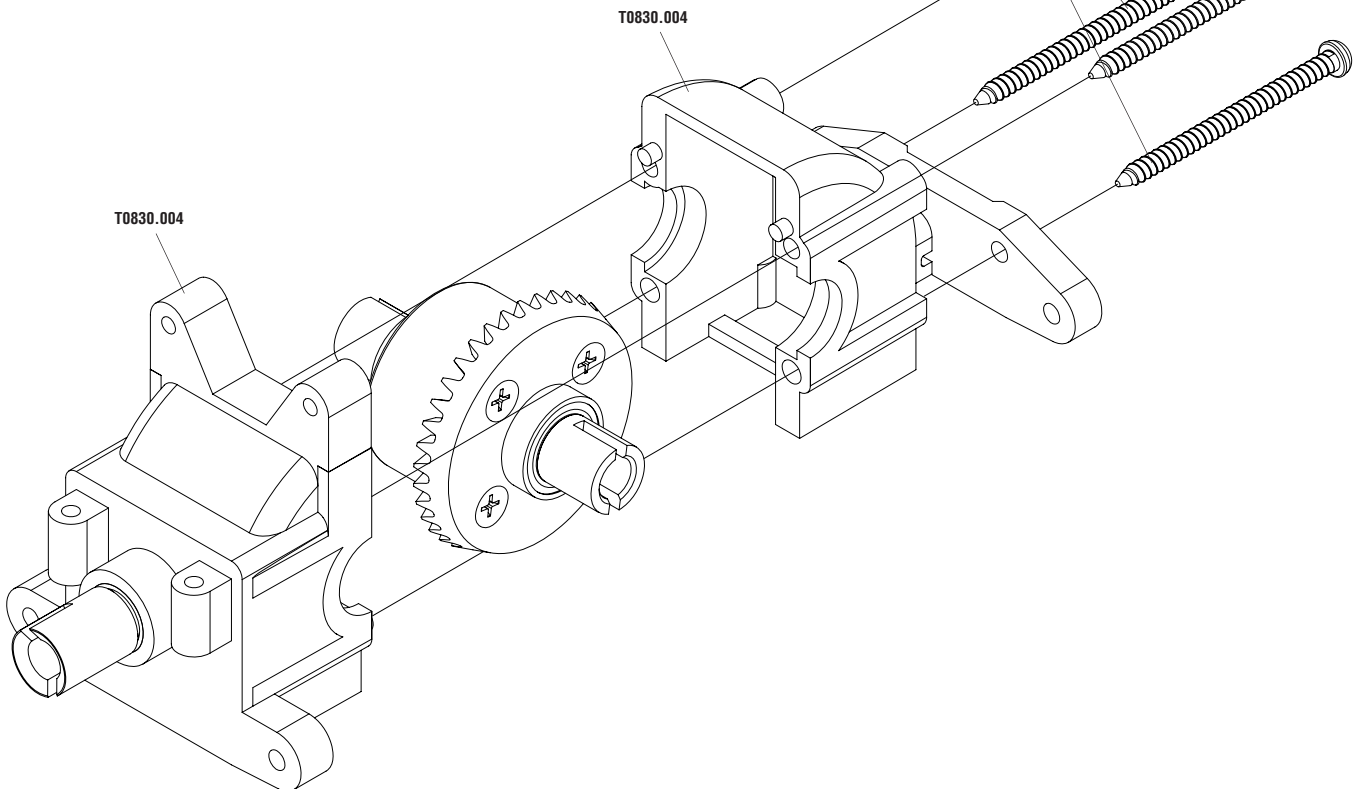




**Assembly of the rear differential / Montage van de achterste differentieel  
Montierung von die Differentiale hinten / Assemblage du différentiel arrière**

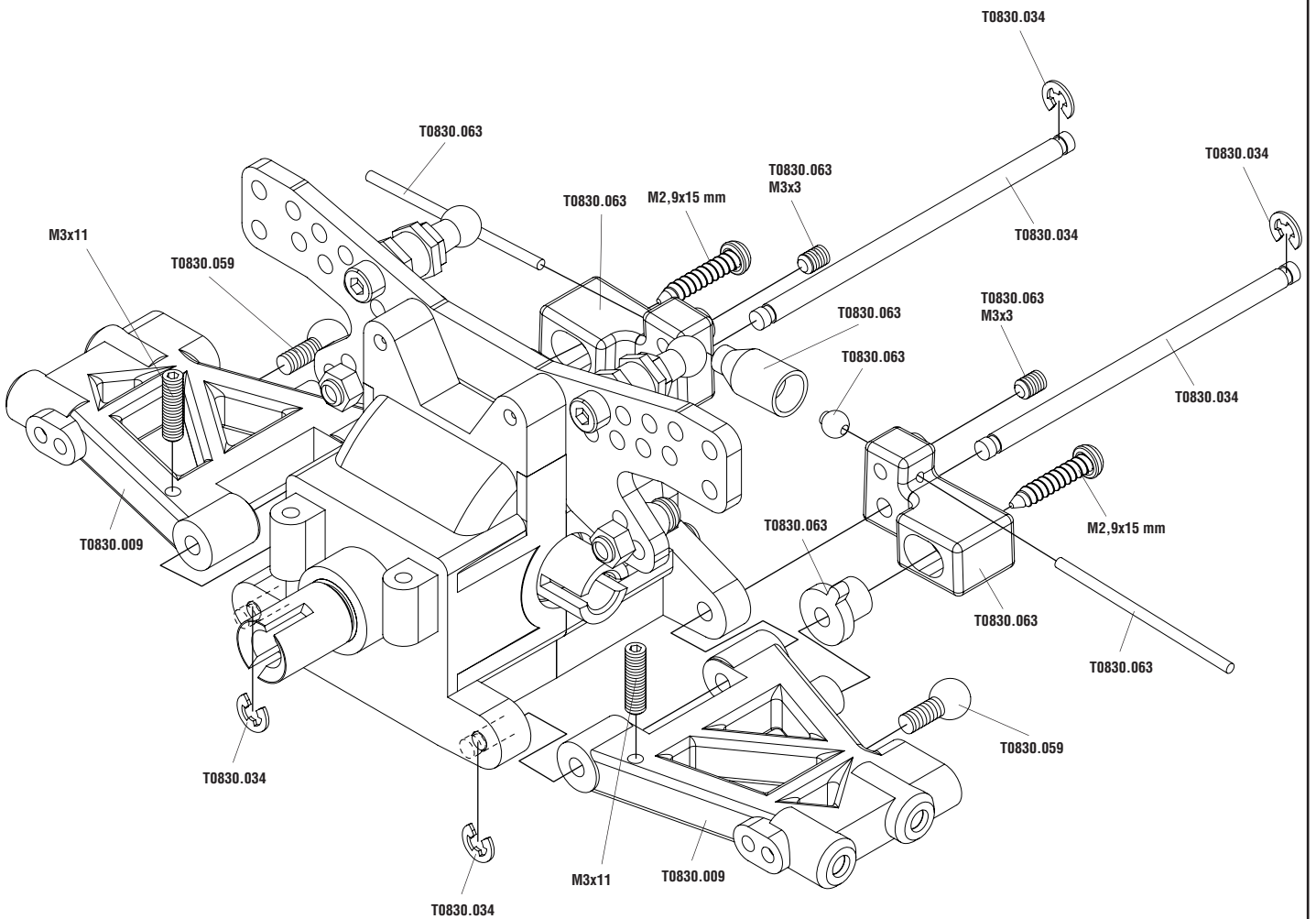
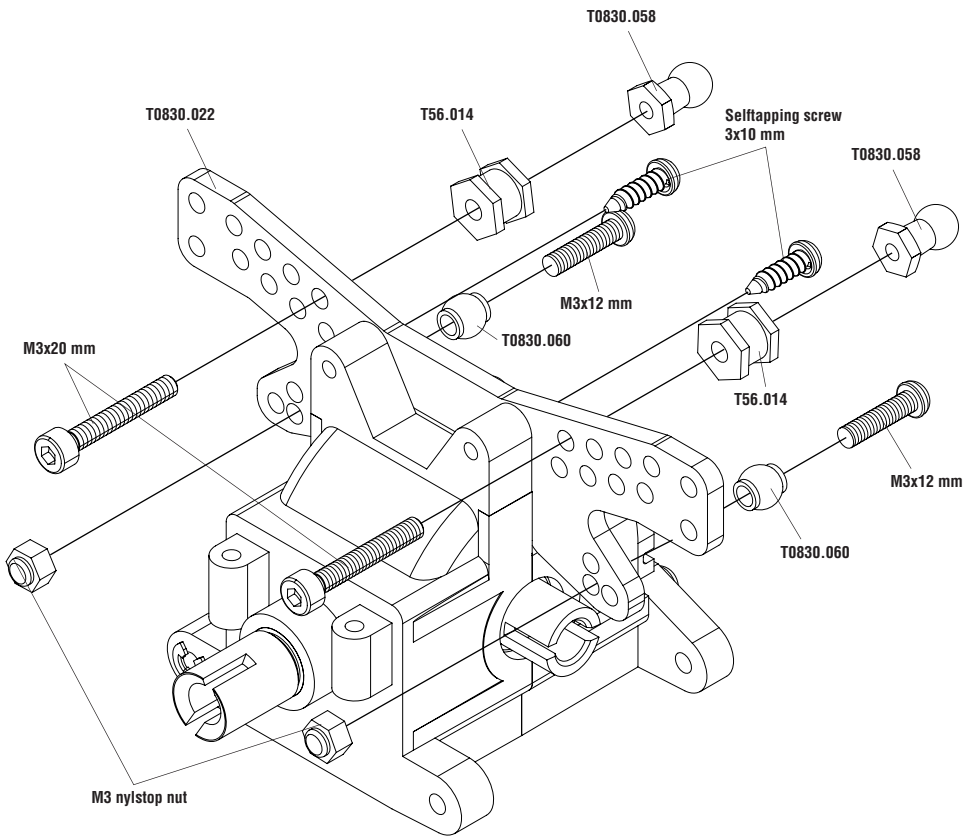


Selftapping screw  
3x40 mm

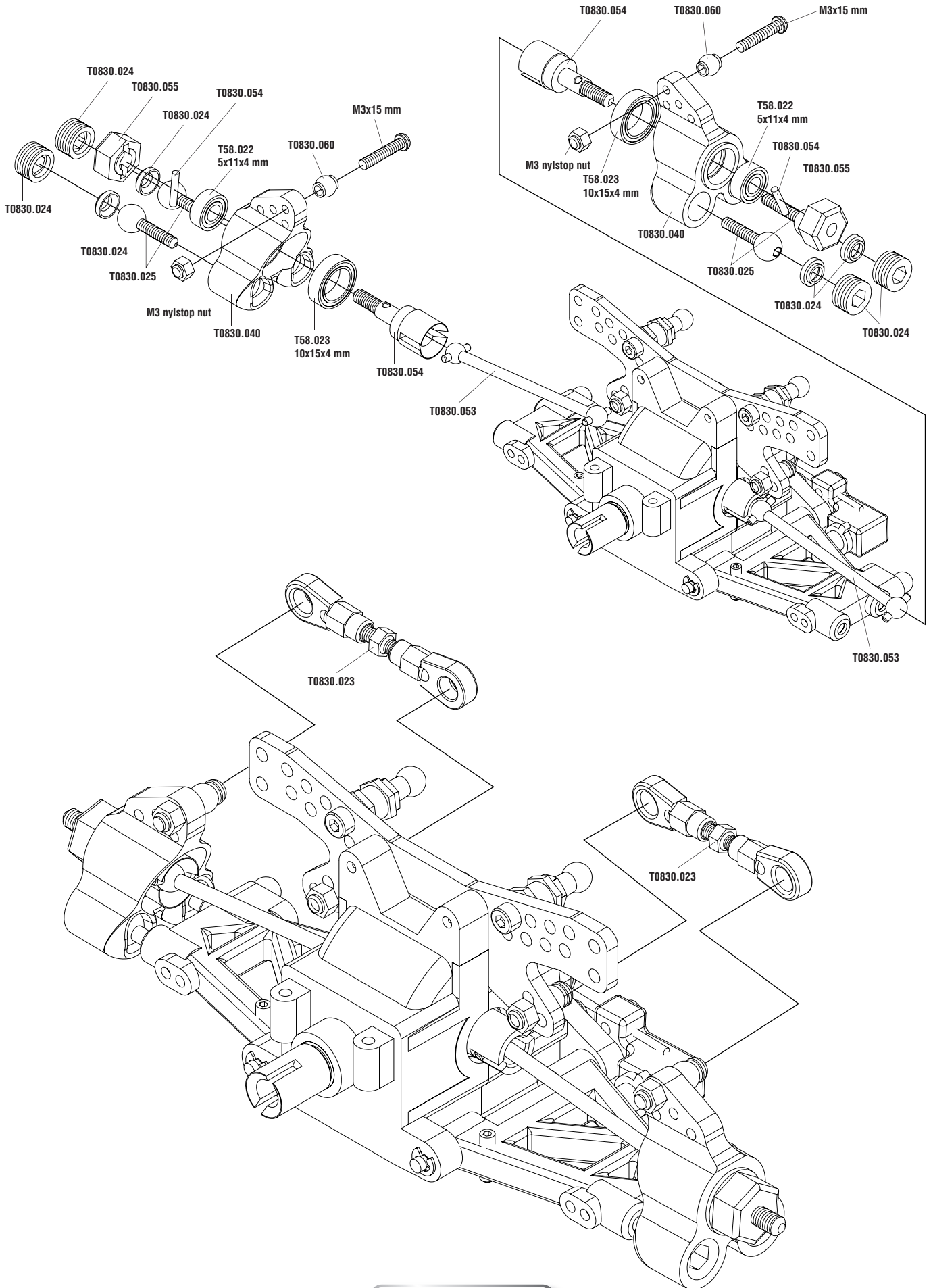




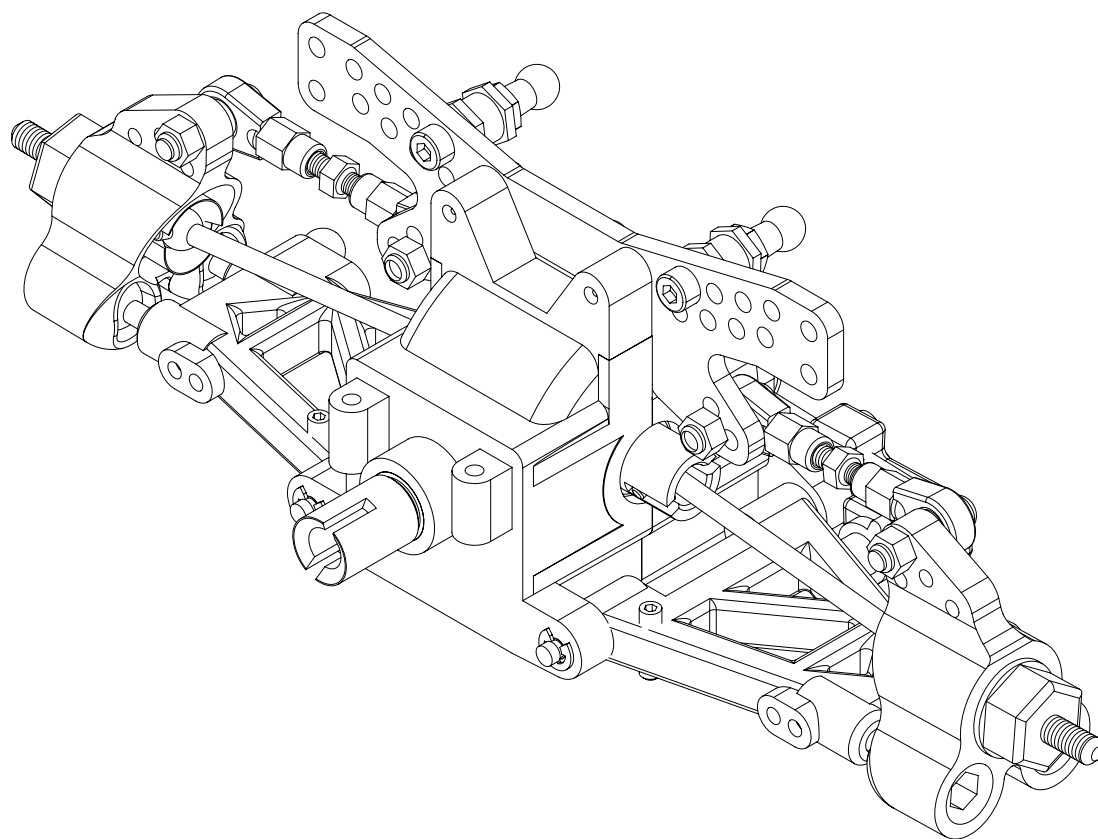
**Mounting the rear suspension / Montage van de achterste ophanging  
 Montierung von Querlenker hinten / Assemblage du train arrière**



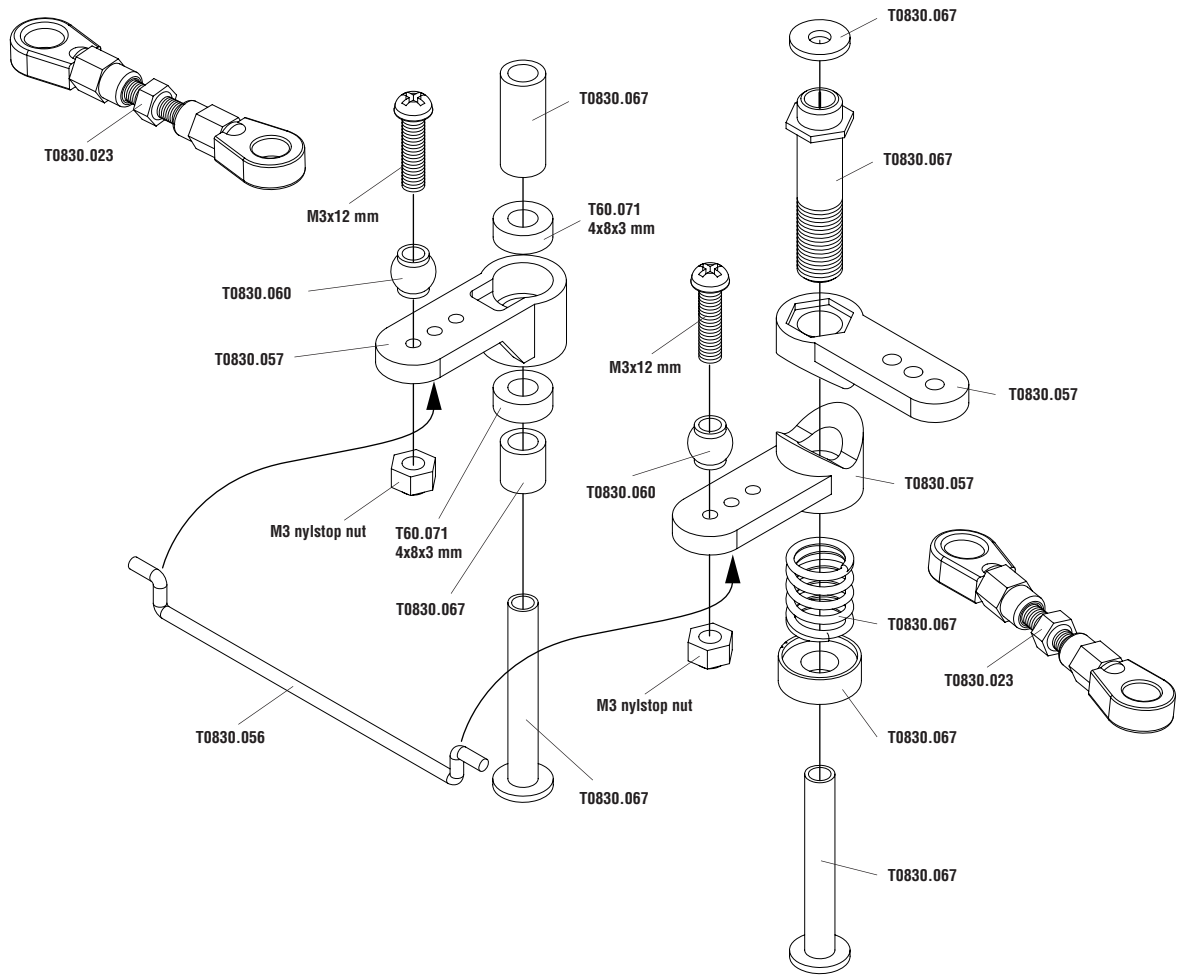
**Mounting the rear suspension / Montage van de achterste ophanging  
 Montierung von Querlenker hinten / Assemblage du train arrière**



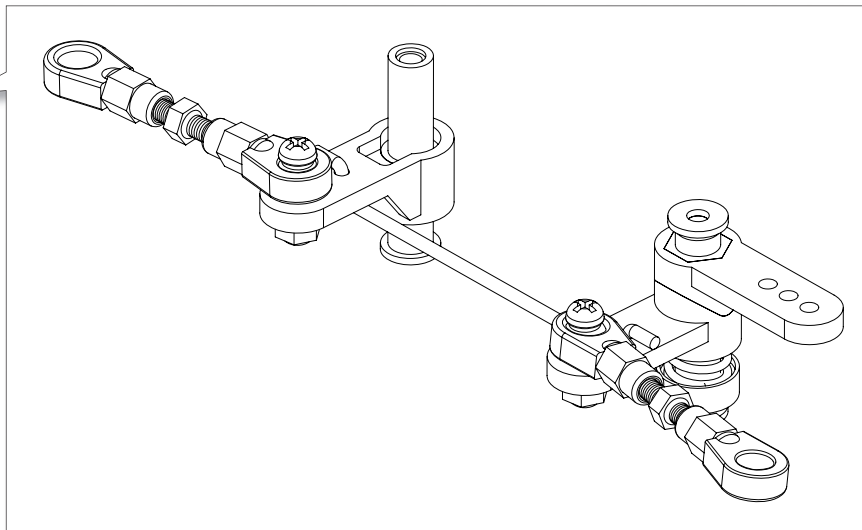
*Mounting the rear suspension / Montage van de achterste ophanging  
Montierung von Querlenker hinten / Assemblage du train arrière*



**Assembly of the servo saver / Montage van de servo-saver  
 Montierung des Servo-Savers / Assemblage du sauve servo**

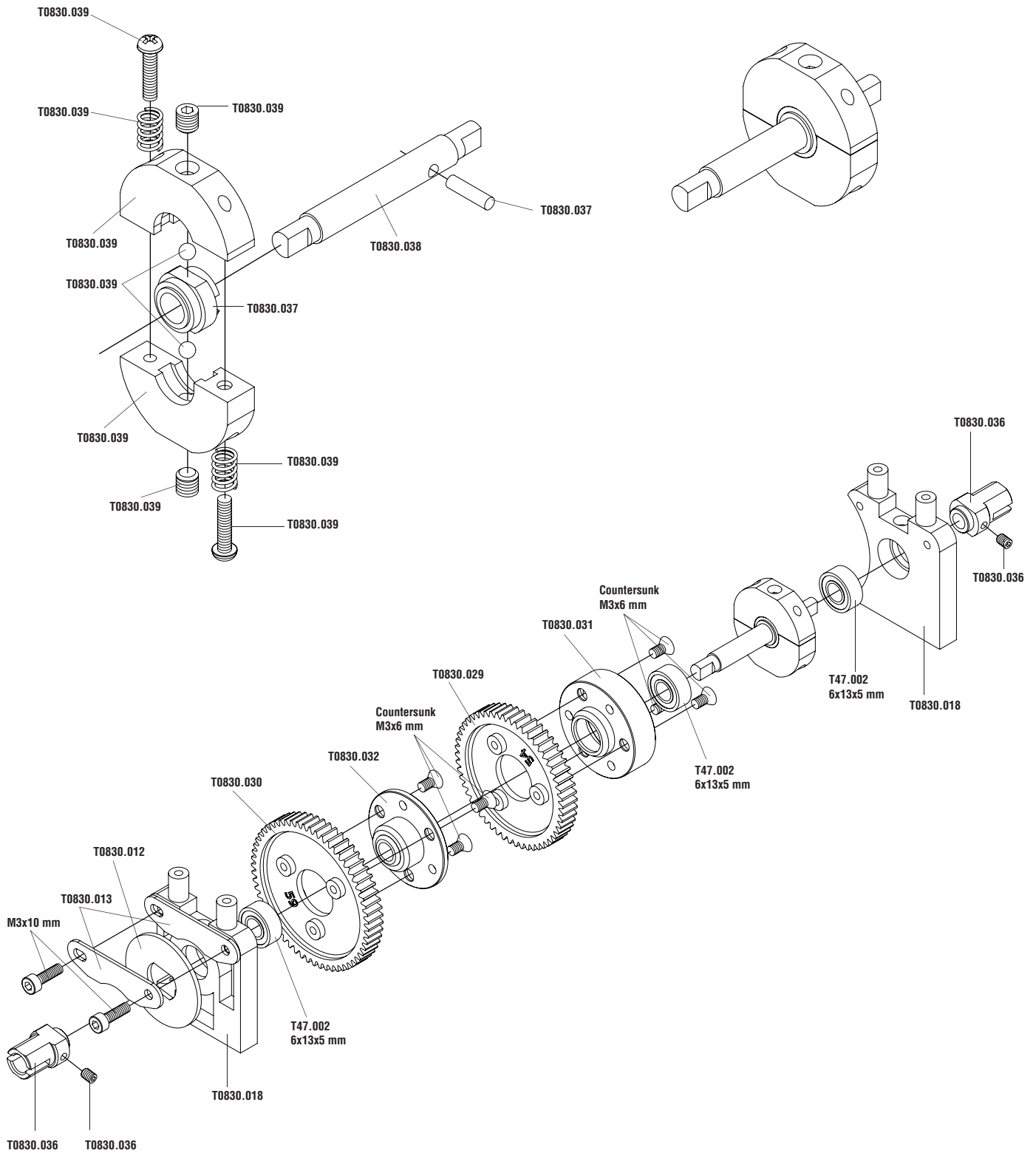


Servo saver  
 Servo-saver  
 Servo-Saver  
 Sauve-servo



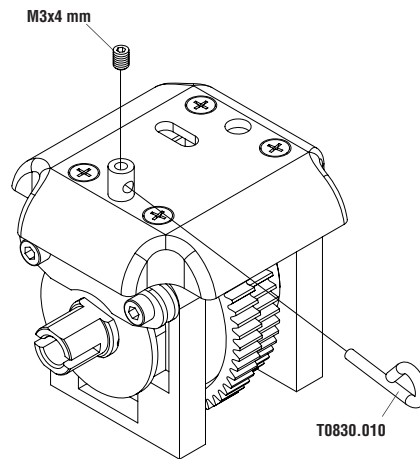
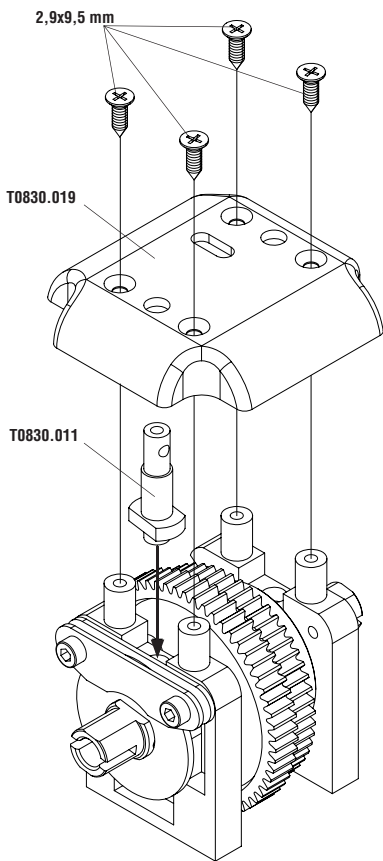


**Assembly of the 2-speed gearbox / Montage van de 2 versnellingsbak  
Montierung des 2-Gang Getriebes / Assemblage de la boîte à 2 vitesses**





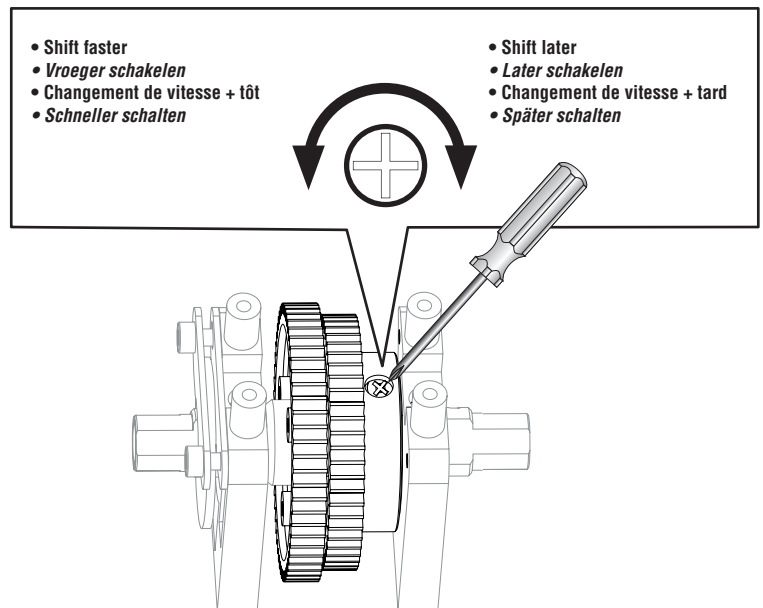
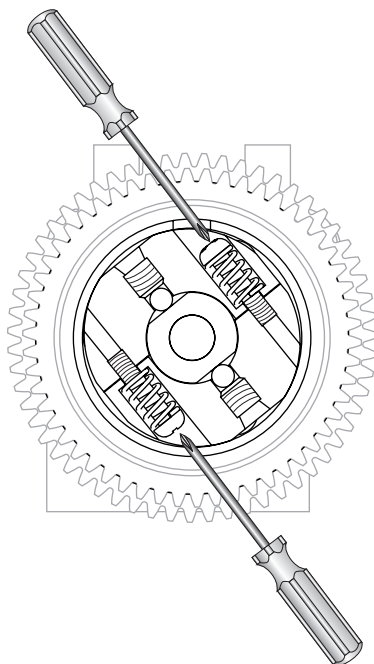
**Assembly of the 2-speed gearbox / Montage van de 2 versnellingsbak  
Montierung des 2-Gang Getriebes / Assemblage de la boîte à 2 vitesses**



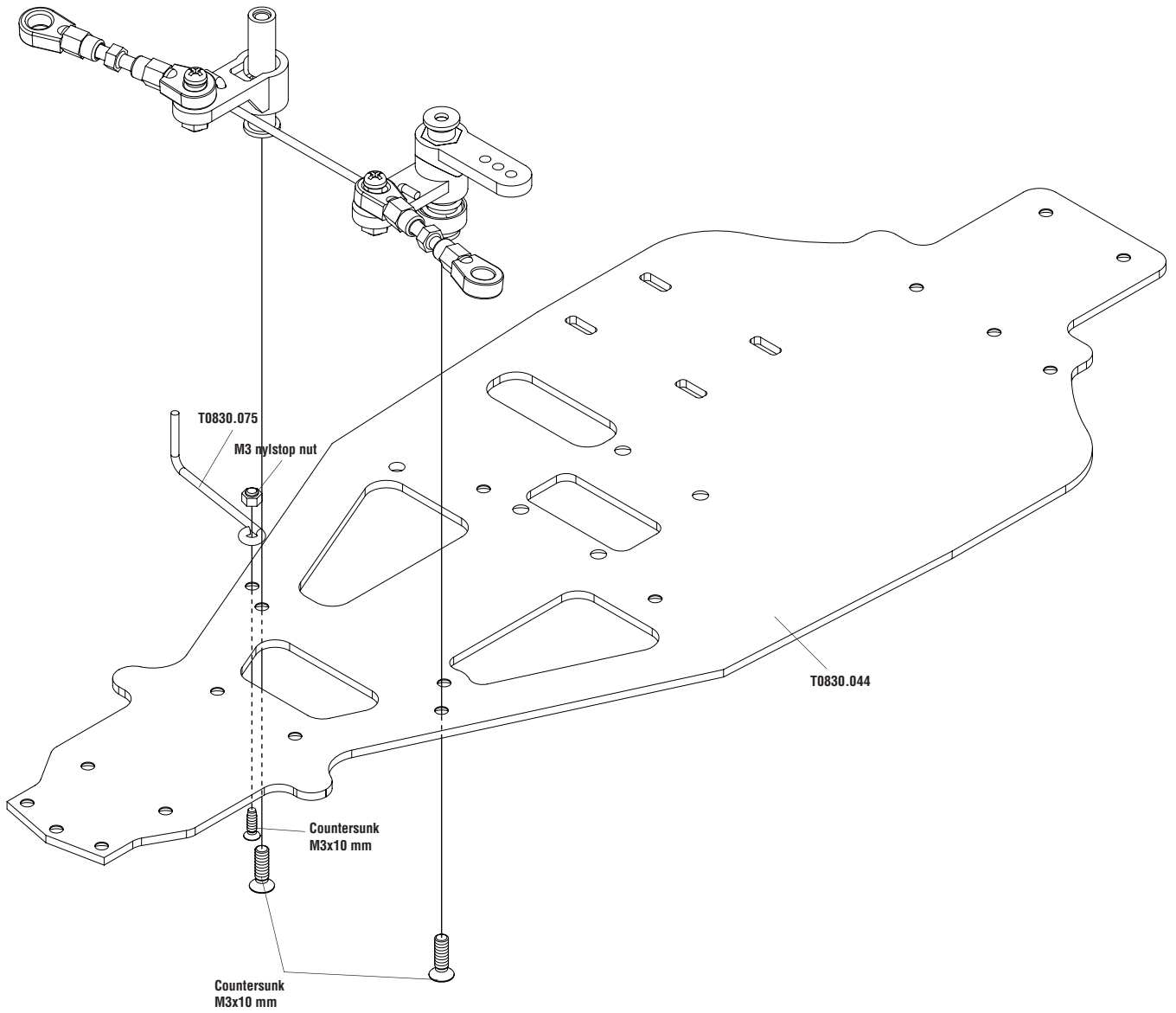
- Adjust screws equally
- *Regel de twee vijzen op dezelfde manier*
- *Vissez de façon égale les 2 vis*
- *Justieren Sie die Schrauben gleichmässig*

- Shift faster
- *Vroeger schakelen*
- *Changement de vitesse + tôt*
- *Schneller schalten*

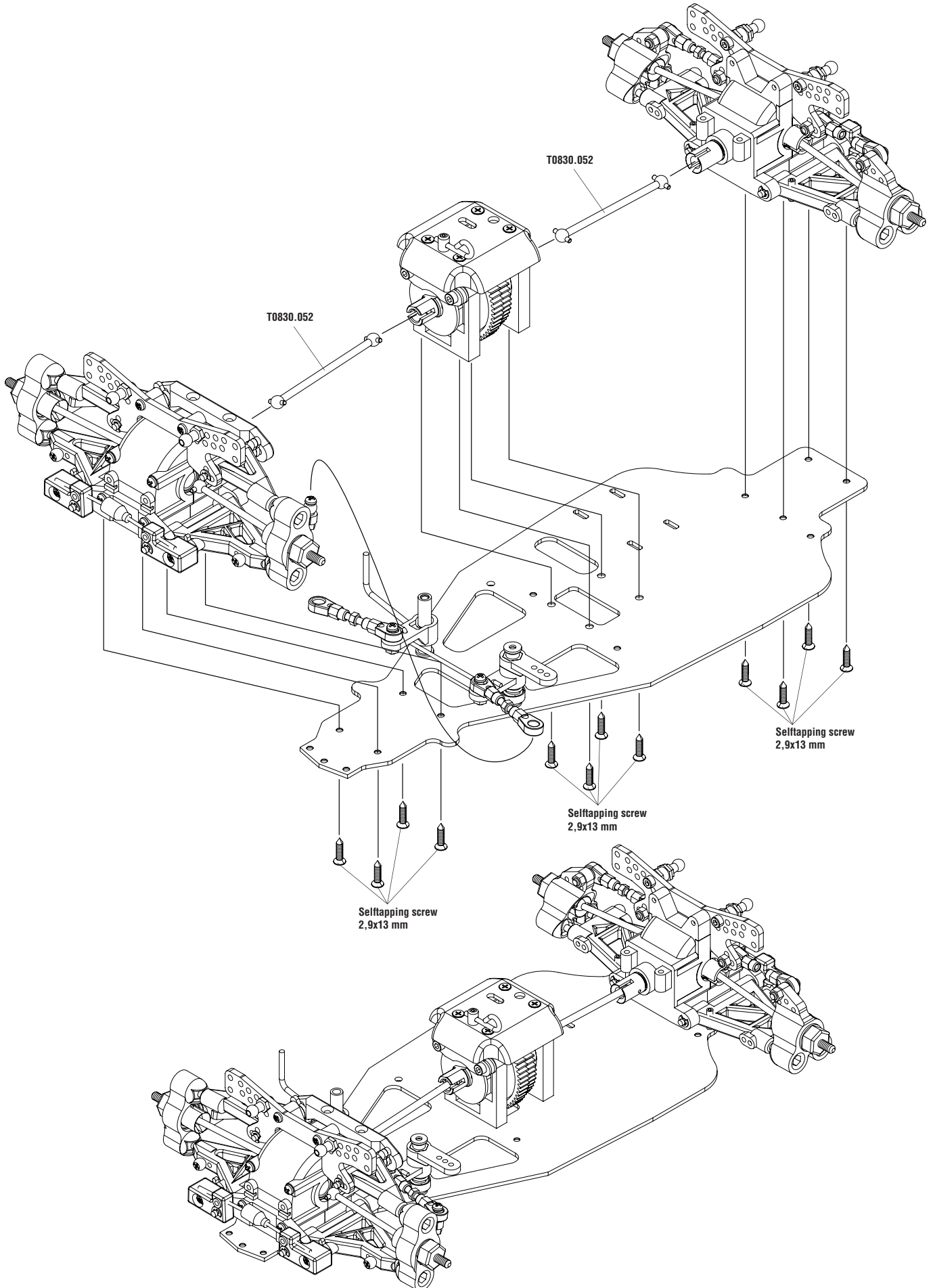
- Shift later
- *Later schakelen*
- *Changement de vitesse + tard*
- *Später schalten*



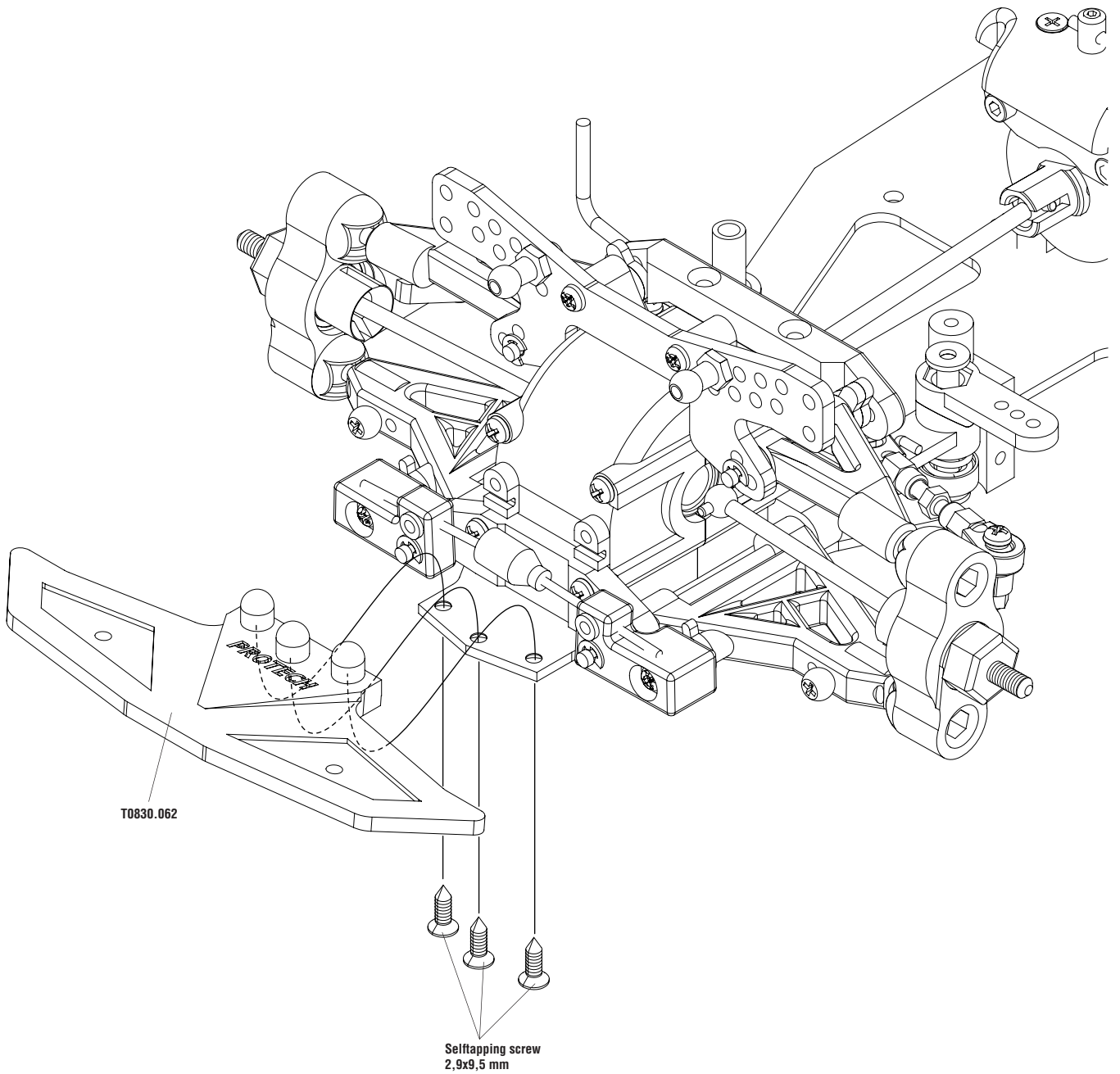
**Mounting the servo-saver / Monteren van de servo-saver  
Montierung des Servo-Savers / Montage du sauve-servo**



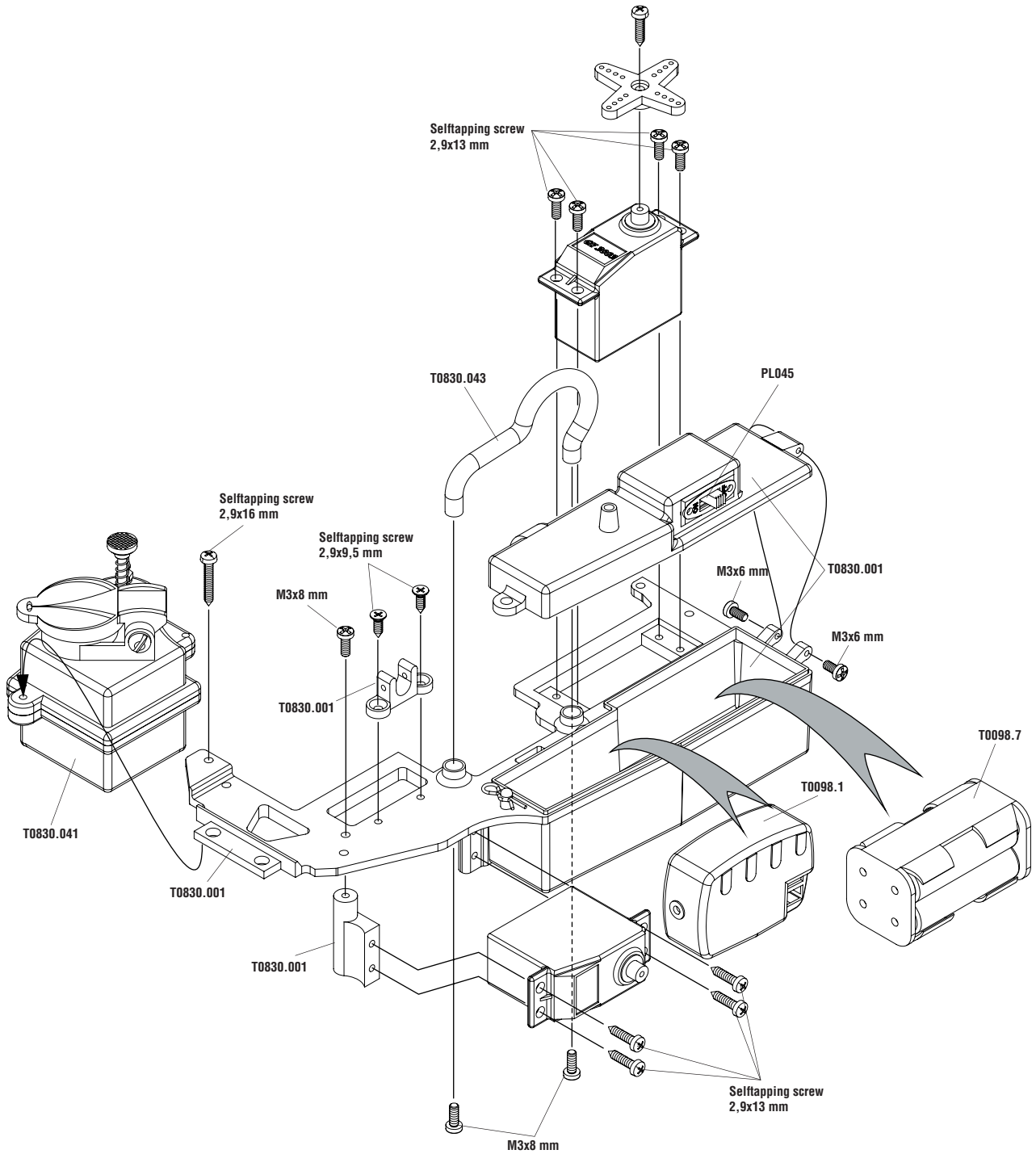
**Fixing the drive components / Monteren van de aandrijving  
Montierung des Antriebs / Montage des trains AV&AR**



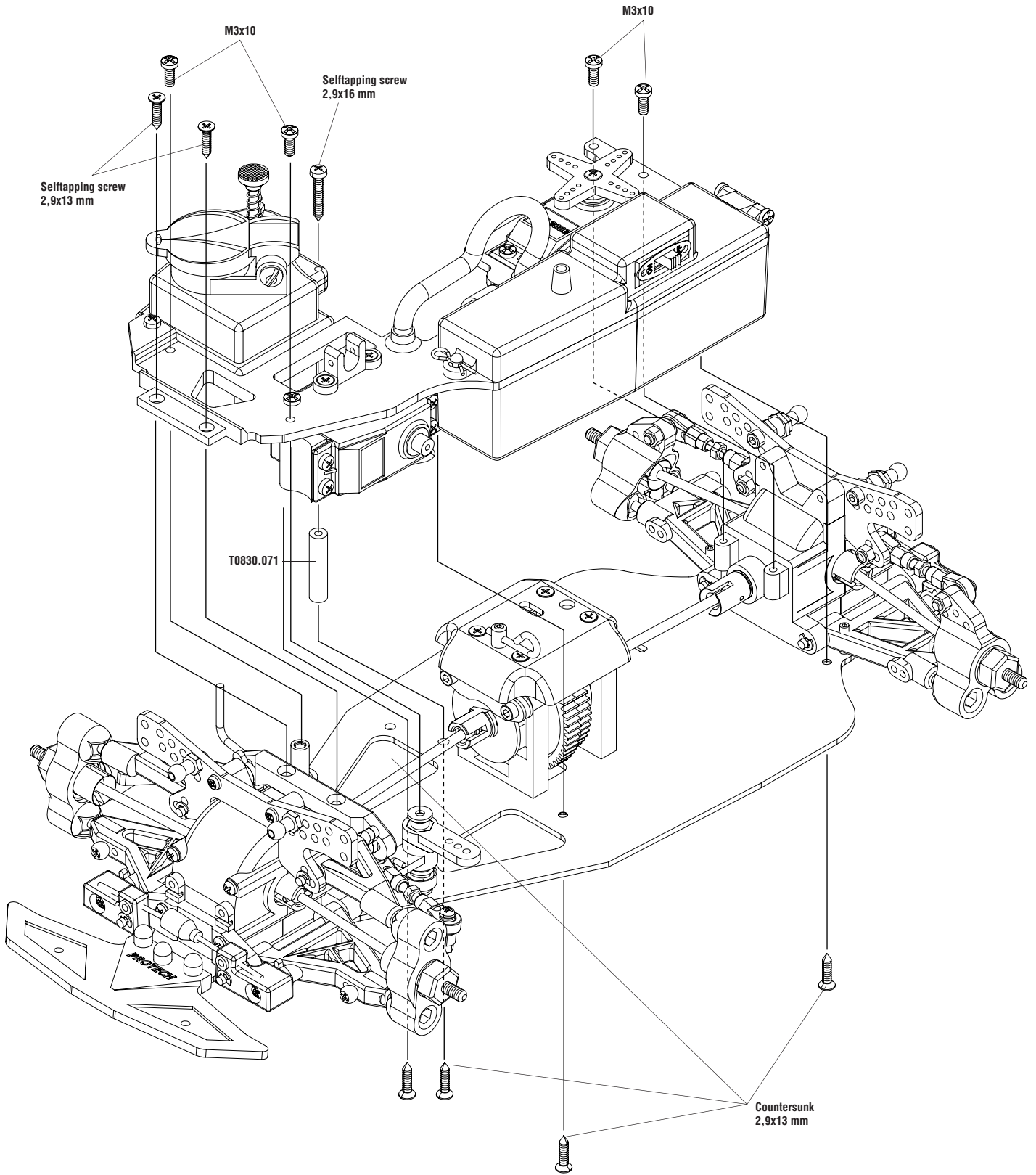
**Mounting the front bumper / Montage van de voorste bumper  
Montierung des Frontrammers / Montage du pare-chocs avant**



**Assembly of the radio plate / Montage van de radioplaat  
 Montierung des Radio Platine / Assemblage de la platine radio**

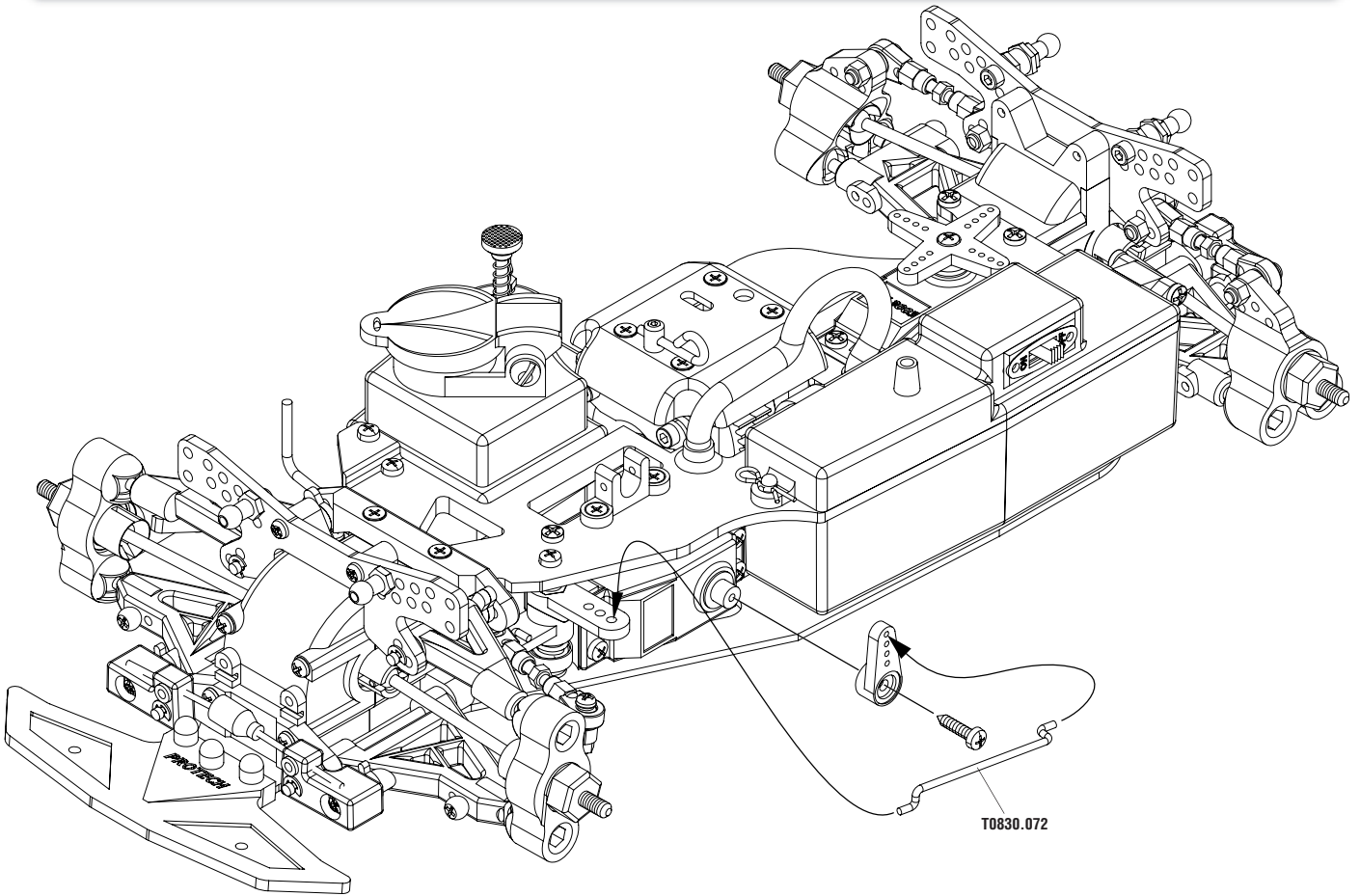


**Mounting the radio plate / Monteren van de radioplaat  
Montierung des Radio Platine / Montage de la platine radio**

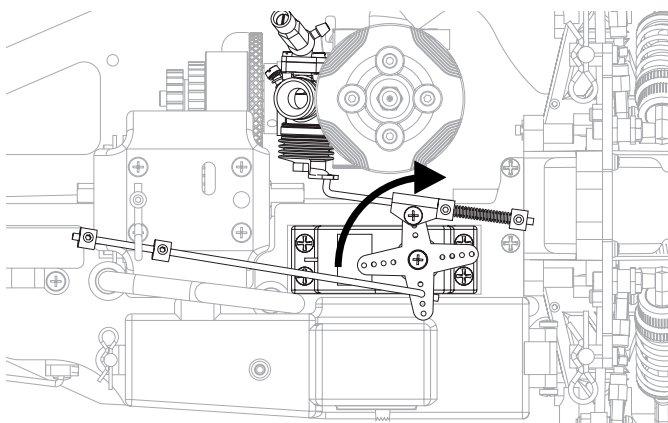
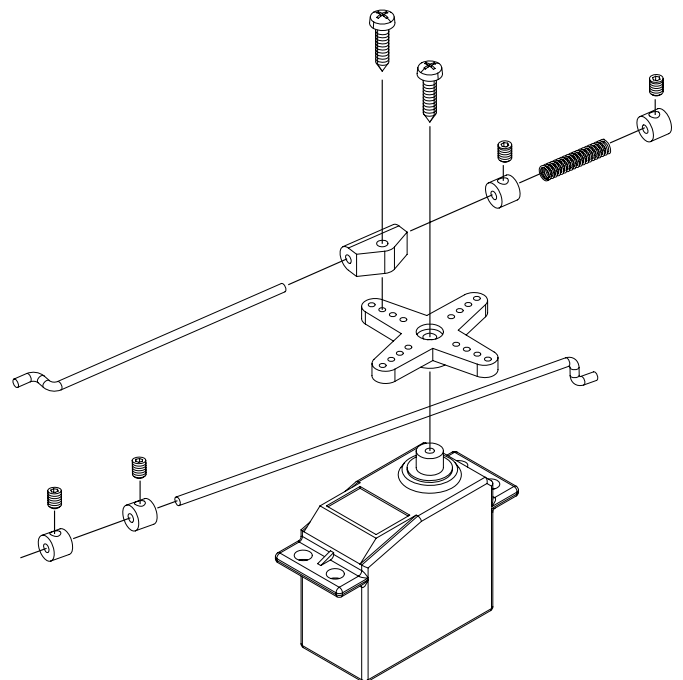
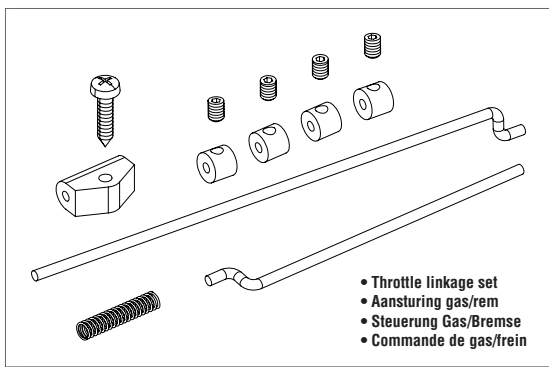




**Mounting the control rods / Monteren van de stuurstangen  
Montierung der Gestänge / Montage des commandes**



**Throttle linkage / Aansturen gas/rem  
Seuerung Gas/Bremse / Commande de gas/frein**



**Mounting the engine / Monteren van de motor  
Montierung des Motors / Montage du moteur**

Use special air-filter oil (Use LX 906 ) on the inner sponge filter (not on the outer filter) to stop dust from getting into the engine.

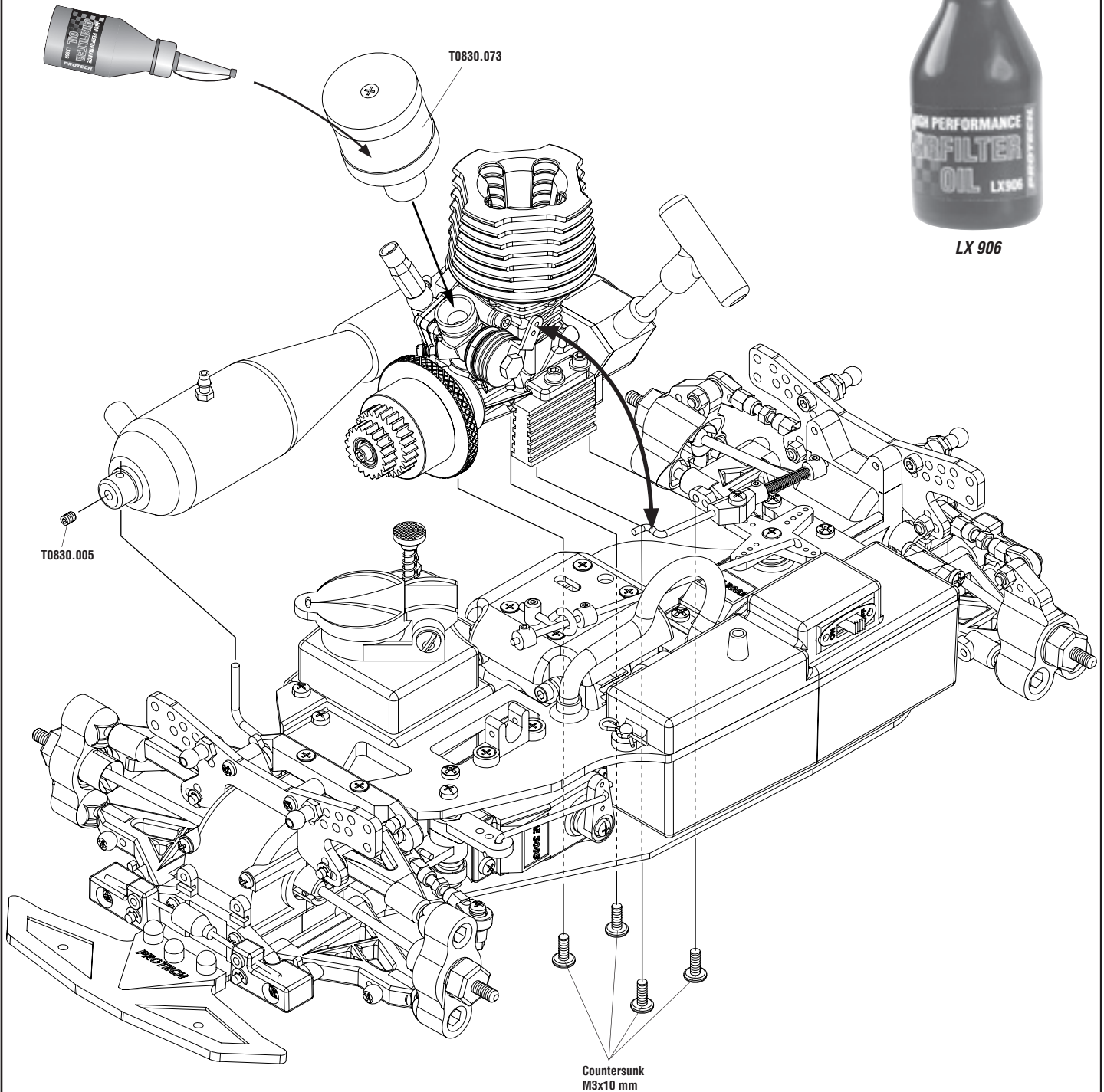
*Gebruik speciale luchtfilterolie (Gebrauk LX 906) op de mousse om te vermijden dat stof en vuil in de motor terecht komen.*

Verwenden Sie spezielle Luftfilteröl (LX906) auf das Schaumstoff damit Sie vermeiden das Schmutz und Staub im Motor eindringen.

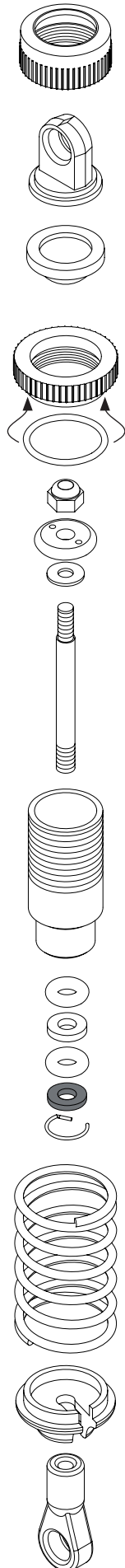
*Utilisez toujours de l'huile spéciale pour filtre à air (LX906) pour empêcher la poussière d'entrer dans le moteur.*



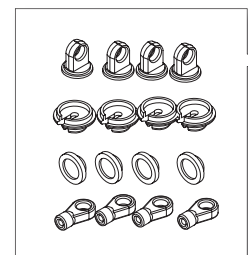
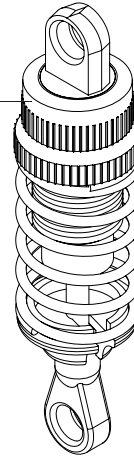
**LX 906**



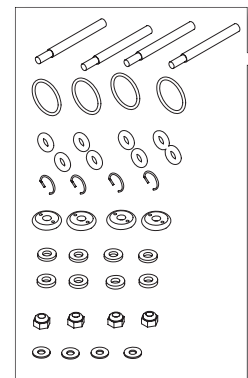
**Assembling the shock absorbers / Assemblage van de schokdempers  
Zusammenstellen des Stoßdämpfers / Assemblage des amortisseurs**



T0830.066

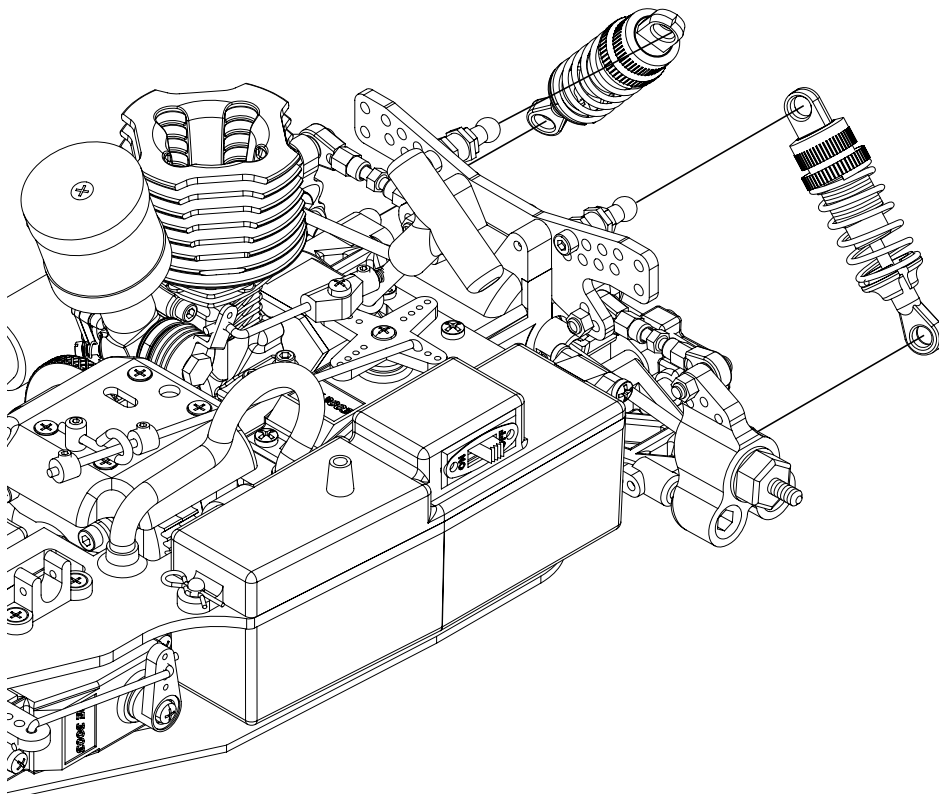
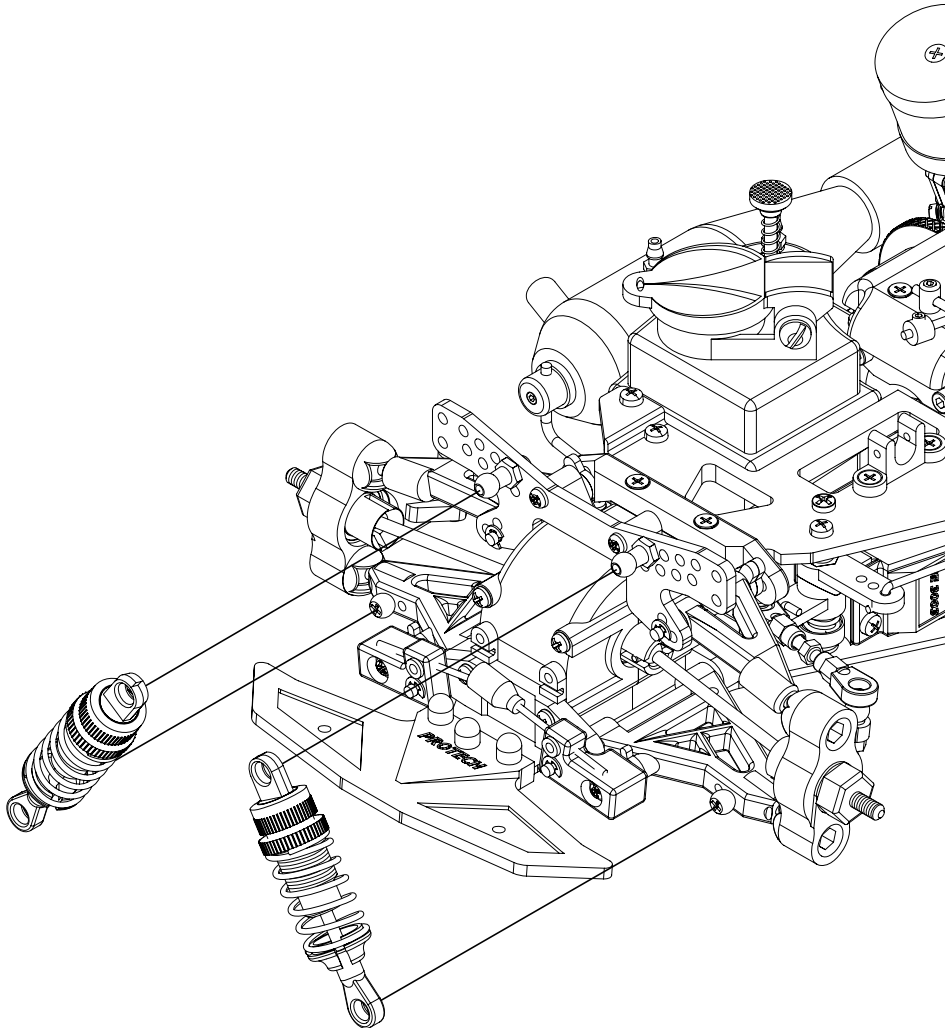


T0830.064

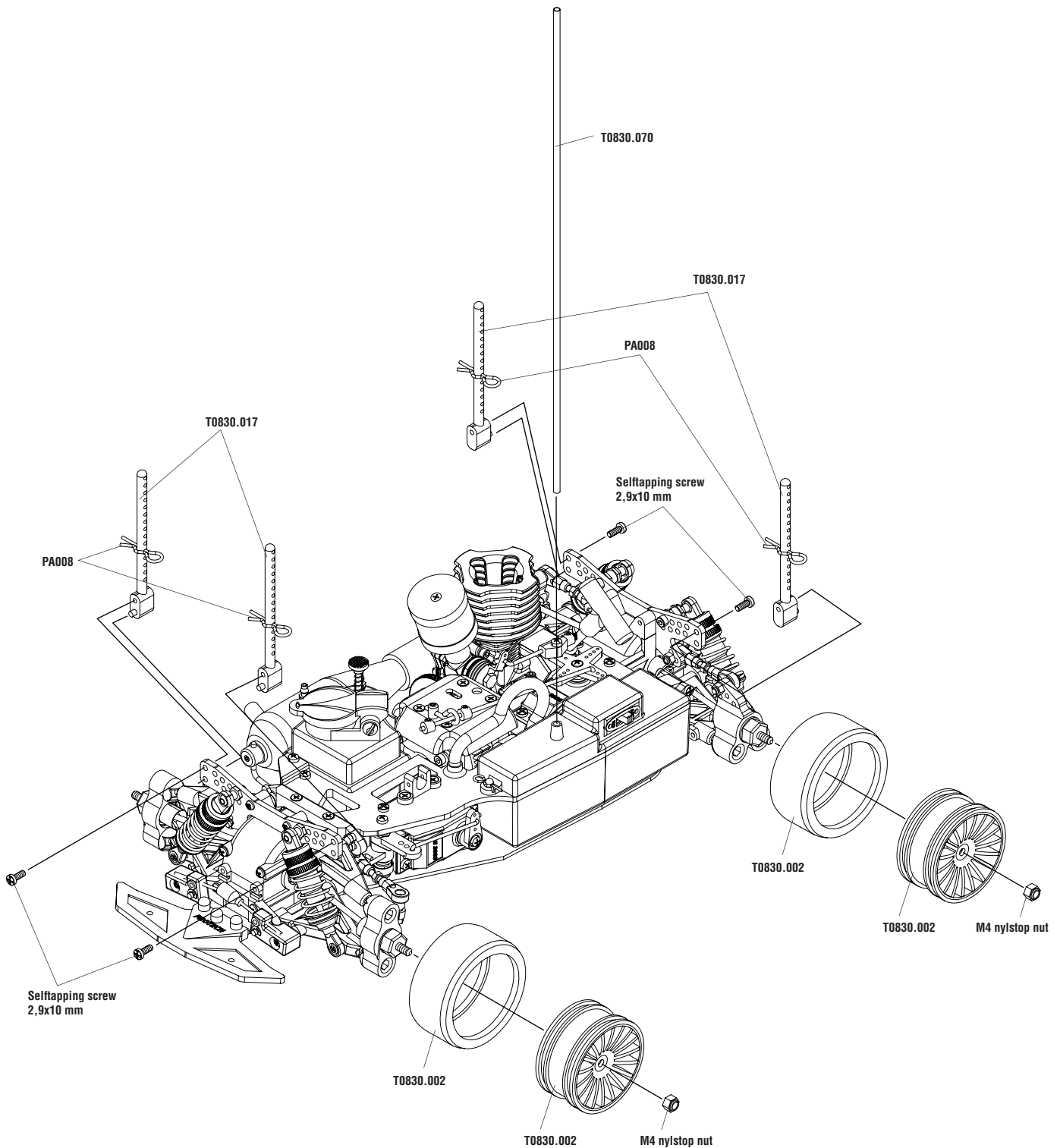


T0830.065

**Mounting the shock absorbers / Monteren van de schokdempers  
Montierung des Stoßdämpfers / Installation des amortisseurs**



**Mounting body posts and tires / Monteren van carrossieresteunen en wielen  
Montierung der Karosseriestütze und der Reife / Montage des supports carrosserie et des roues**

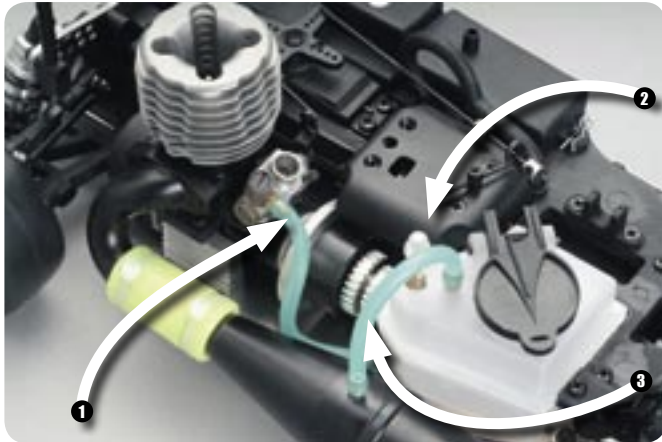


- Always glue the tyres on the rims using some cyano glue.
- Steeds de banden op de velgen lijmen met cyano lijm.
- Immer die Reifen auf die Felgen verkleben, verwenden Sie Cyano Klebstoff.
- Toujours collez les pneus sur les jantes avec de la colle cyano.



**Fuel tube & carburator / Silicone darmen en carburator  
Silikonschlauchen und Vergaser / Durite silicone et carburateur**

- FUEL TUBES CONNECTION
- AANSLUITEN VAN SILICONE DARMEN
- ANSCHLIESSEN VON DIE SCHLAUCHEN
- RACCORDEMENT DES DURITES SILICONE



- ①
  - Fuel line
  - Brandstofvoer
  - Kraftstoffschlauch
  - Arrivée du carburant
- ②
  - Primer button
  - Brandstofvoer pomp
  - Pumpe
  - Pompe d'amorçage
- ③
  - Pressurising the tank
  - Druktoevoer voor de tank
  - Unter Druck setzen des Tanks
  - Pressurisation du réservoir

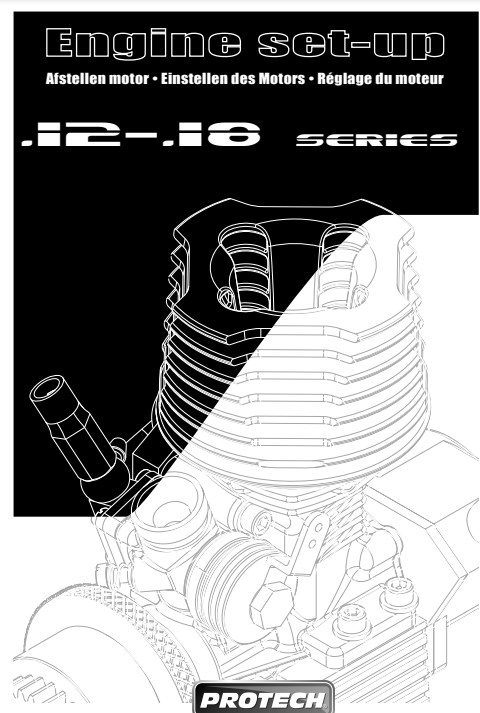
- CARBURATOR SETTINGS
- INSTELLINGEN VAN DE CARBURATOR
- EINSTELLUNG DES VERGASERS
- RÉGLAGE DU CARBURATEUR



- ④
  - High speed needle (original settings open 3 turns)
  - Instelnaald voor hoog toerental (originele instelling 3 toeren open)
  - Nadel für hohe Drehzahlen (Original Einstellung 3 Zahlen offen)
  - Pointeau de haut régime (réglage d'origine ouvert à 3 tours)
- ⑤
  - Idle adjustment screw (carburetor is  $\pm 1$ mm open)
  - Stelschroef voor stationair draaien (carburetor staat  $\pm 1$ mm open)
  - Leerlaufdrehzahlschraube (Vergaser  $\pm 1$ mm offen)
  - Vis de réglage du ralenti (carbureteur ouvert de  $\pm 1$ mm)

**Engine set-up / Afstellen van de motor  
Einstellungen des Motors / Réglage moteur**

- Check the ENGINE SET-UP manual to start and break in the engine
- Lees aandachtig de handleiding AFSTELLEN MOTOR voor het inlopen en roderen van de motor
- Lesen Sie gründlich die Anleitung EINSTELLEN DES MOTORS für das einlaufen und rodieren vom Motor
- Consultez le manuel REGLAGE DU MOTEUR pour démarrer et rôder votre moteur





**Trimming the body / Uitsnijden van de carrosserie  
Ausschneiden von Karosserie / Découpe de la carrosserie**



**VERY IMPORTANT**

Do not forget to cut out the holes in the body to cool down the engine.

**LET OP**

Vergeet niet om de koelgaten voor de motor uit de body te snijden.

**ATTENTION**

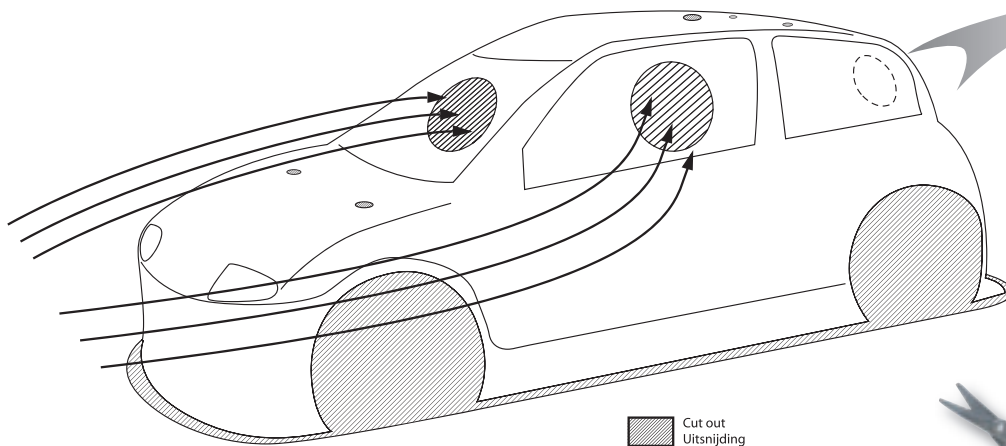
Ne pas oublier de découper les orifices pour le refroidissement du moteur.

**ACHTUNG**

Vergessen Sie nicht, die Bohrungen in der Karosserie auszuschneiden, um den Motor abzukühlen.

- Cut holes in the body to cool down the engine
- Koelgaten in de carrosserie snijden voor de motorkoeling
- Découpe des orifices de refroidissement du moteur
- Bohrungen in der Karosserie für die Motorkühlung

- Cut a hole in the rear window
- Maak een gat in de achterraut
- Faites une découpe dans la vitre arrière
- Bringen Sie eine Bohrung an in das hintere Fenster



**AK100**

- PROTECH Curved scissors especially designed to cut all plastic materials
- PROTECH gebogen schaar speciaal ontworpen voor het snijden van plastic
- PROTECH Ciseau incurvés particulièrement conçu pour couper les matières plastiques
- PROTECH gebogene Schere geplant um Plastik zu schneiden

**Chassis and body / Chassis en carrosserie  
Chassis und Karosserie / Châssis et carrosserie**

**T0836.1**

Porsche 911  
Chassis + Body



**T0726.\***

Porsche 911  
Pre-painted & trimmed body  
+ decals

**T0706.200**

Porsche 911  
Transparent body + decals

**T0833.1**

BMW M3  
Chassis + Body



**T0723.\***

BMW M3  
Pre-painted & trimmed body  
+ decals

**T0713.200**

BMW M3  
Transparent body + decals

**T0838.1**

Subaru Impreza WRC  
Chassis + Body



**T0728.\***

Subaru Impreza WRC  
Pre-painted & trimmed body  
+ decals

**T0708.200**

Subaru Impreza WRC  
Transparent body + decals

**T0831.1**

Renault Clio V6  
Chassis + Body



**T0721.\***

Renault Clio V6  
Pre-painted & trimmed body  
+ decals

**T0701.200**

Renault Clio V6  
Transparent body + decals

(\* )S=Silver Metallic; BL=Blue Metallic; B=Black Metallic

CARBON center diff. plate (OPTION)



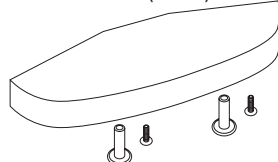
T0830.219

CARBON FR of RE shock stay (OPTION)



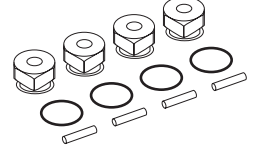
T0830.222

FOAM BUMPER front (OPTION)



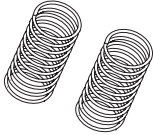
T0660.221

ALUMINIUM WHEELHEX w/ O-ring (OPTION)



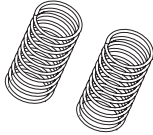
T0660.250

SHOCK SPRING gray 1.8mm (OPTION)



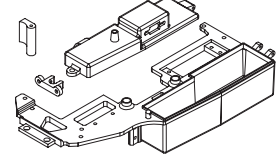
T47.149

SHOCK SPRING yellow 1.9mm (OPTION)

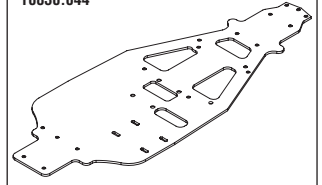


T47.151

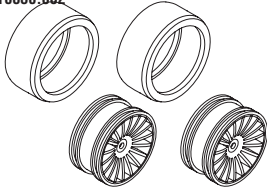
T0830.001



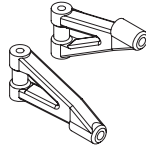
T0830.044



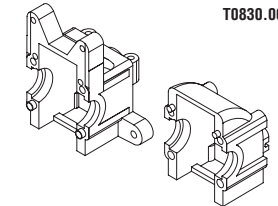
T0830.002



T0830.003

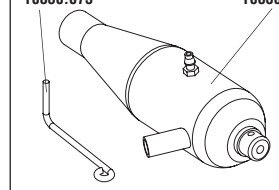


T0830.004



T0830.075

T0830.005



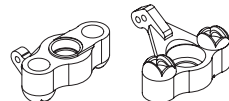
T0830.006



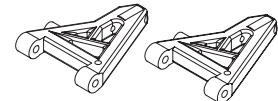
T0830.074



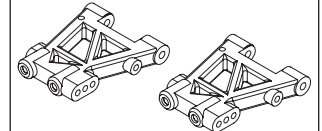
T0830.007



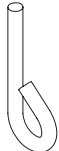
T0830.008



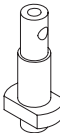
T0830.009



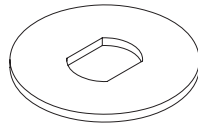
T0830.010



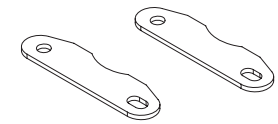
T0830.011



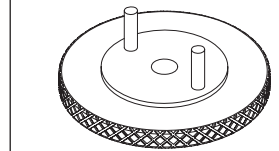
T0830.012



T0830.013



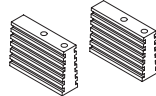
T0830.014



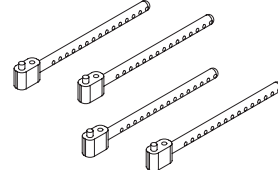
T0830.015



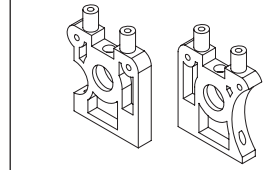
T0830.016



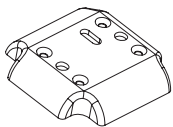
T0830.017



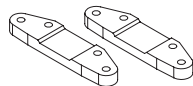
T0830.018



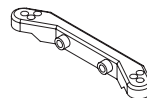
T0830.019



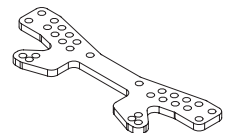
T0830.020



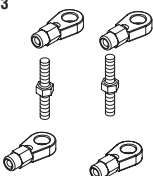
T0830.021



T0830.022



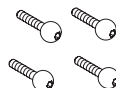
T0830.023



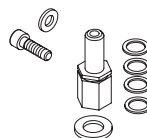
T0830.024



T0830.025



T0830.026



T0830.027



T0830.028





**Spare parts list / Onderdelen  
Benötigtes / Pièces détachées**

T0830.001	<ul style="list-style-type: none"> <li>• Radio plate and receiver box</li> <li>• Radioplaat en ontvangerdoos</li> <li>• Platine radioavec boîtier récepteur</li> <li>• RC Platine und Empfängerbox</li> </ul>
T0830.002	<ul style="list-style-type: none"> <li>• Tires + Rims</li> <li>• Banden + Velgen</li> <li>• Pneus + Jantes</li> <li>• Räder + Felgen</li> </ul>
T0830.003	<ul style="list-style-type: none"> <li>• Front upper arm</li> <li>• Voorste ophangingsarm boven</li> <li>• Bras de suspension avant sup.</li> <li>• Querlenker vorne oben</li> </ul>
T0830.004	<ul style="list-style-type: none"> <li>• Gear box</li> <li>• Versnellingsbak</li> <li>• Carter de réducteur</li> <li>• Getriebe Gehäuse</li> </ul>
T0830.005	<ul style="list-style-type: none"> <li>• Exhaust</li> <li>• Uitlaat</li> <li>• Résonateur</li> <li>• Rezonanzrohr</li> </ul>
T0830.006	<ul style="list-style-type: none"> <li>• Manifold</li> <li>• Uitlaatbocht</li> <li>• Echappement</li> <li>• Auspuffkrümmer</li> </ul>
T0830.007	<ul style="list-style-type: none"> <li>• Front steering knucle</li> <li>• Voorste stuurblok</li> <li>• Fusée de direction</li> <li>• Achsschenkel vorne</li> </ul>
T0830.008	<ul style="list-style-type: none"> <li>• Front lower arm</li> <li>• Voorste ophangingsarm onder</li> <li>• Bras de suspension avant inf.</li> <li>• Querlenker vorne unten</li> </ul>
T0830.009	<ul style="list-style-type: none"> <li>• Rear arm</li> <li>• Achterste ophangingsarm</li> <li>• Bras de suspension arrière</li> <li>• Querlenker hinten</li> </ul>
T0830.010	<ul style="list-style-type: none"> <li>• Brake lever</li> <li>• Rem-arm</li> <li>• Levier de frein</li> <li>• Bremshebel</li> </ul>
T0830.011	<ul style="list-style-type: none"> <li>• Brake cam</li> <li>• Remexcenter</li> <li>• Came de frein</li> <li>• Bremsexcenter</li> </ul>
T0830.012	<ul style="list-style-type: none"> <li>• Brake disc</li> <li>• Remschijf</li> <li>• Disque de frein</li> <li>• Bremsscheibe</li> </ul>
T0830.013	<ul style="list-style-type: none"> <li>• Brake pad</li> <li>• Remschoen</li> <li>• Plaquettes de frein</li> <li>• Bremsbacken</li> </ul>
T0830.014	<ul style="list-style-type: none"> <li>• Flywheel</li> <li>• Vliegwiel</li> <li>• Volant moteur</li> <li>• Schwungscheibe</li> </ul>
T0830.015	<ul style="list-style-type: none"> <li>• Clutch shoe and spring</li> <li>• Koppeling en veer</li> <li>• Masselottes et ressort</li> <li>• Kupplung und Feder</li> </ul>
T0830.016	<ul style="list-style-type: none"> <li>• Engine mount</li> <li>• Motorsteun</li> <li>• Supports moteur</li> <li>• Motorbock</li> </ul>
T0830.017	<ul style="list-style-type: none"> <li>• Body posts</li> <li>• Carrosseriesteunen</li> <li>• Supports de carrosserie</li> <li>• Karosseriestütze</li> </ul>
T0830.018	<ul style="list-style-type: none"> <li>• Center differential supports</li> <li>• Hoofdtandwielsteunen</li> <li>• Supports de différentiel central</li> <li>• Hauptzahnradstütze</li> </ul>
T0830.019	<ul style="list-style-type: none"> <li>• Center differential plate</li> <li>• Verbindingsplaat differentieel</li> <li>• Platine de différentiel</li> <li>• Mittlere Verstärkungsplatte</li> </ul>

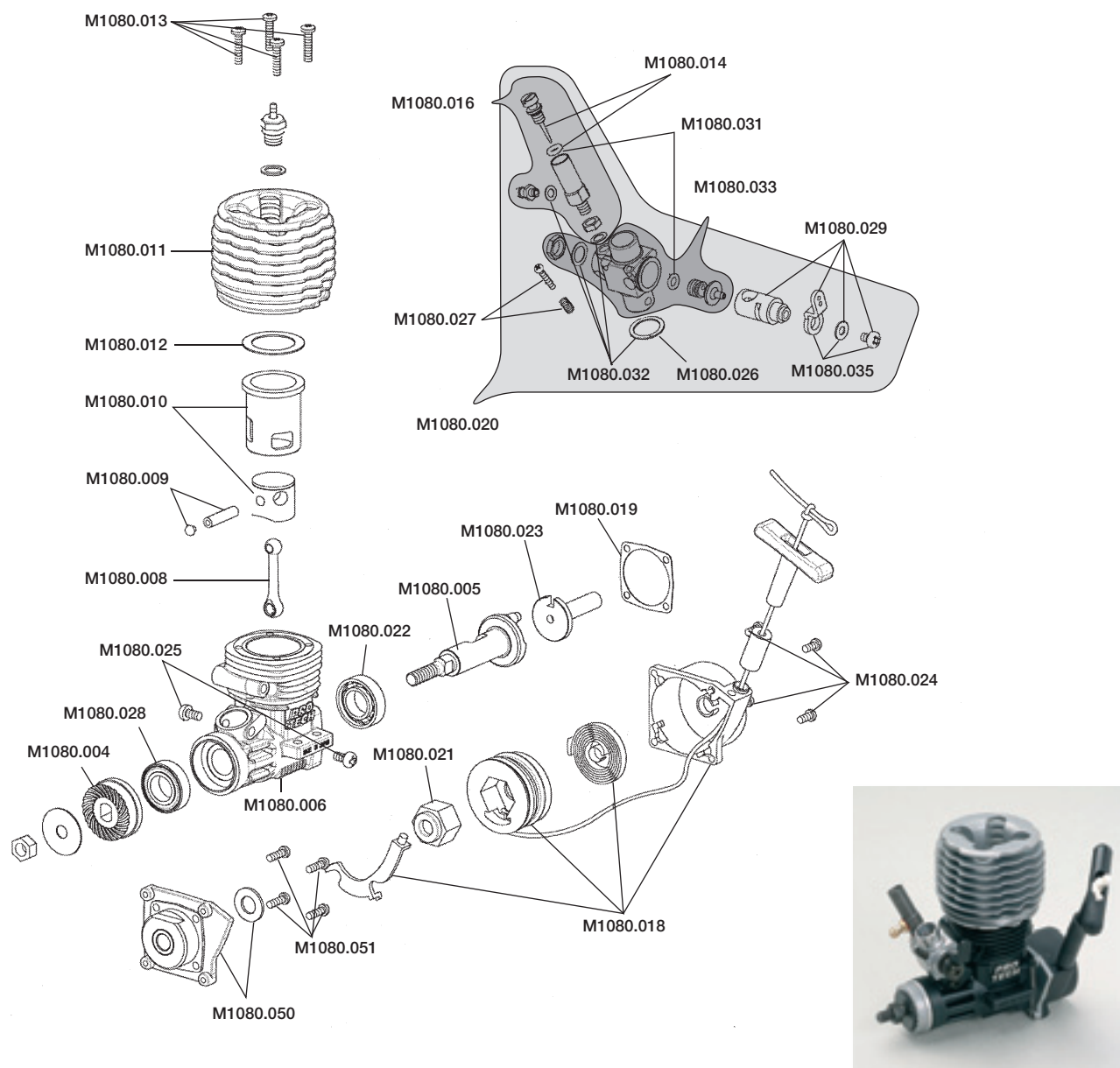
T0830.020	<ul style="list-style-type: none"> <li>• Suspension arm holder</li> <li>• Ophangingsarm houder</li> <li>• Support de bras de suspension</li> <li>• Lagerböcke für Querlenker</li> </ul>
T0830.021	<ul style="list-style-type: none"> <li>• Front suspension arm holder</li> <li>• Voorste ophangingsarm houder</li> <li>• Support de bras de susp. avant</li> <li>• Lagerböcke für Querlenker vorne</li> </ul>
T0830.022	<ul style="list-style-type: none"> <li>• Shock stay</li> <li>• Schokdempersteun</li> <li>• Support d'amortisseurs</li> <li>• Stoßdämpferplatine</li> </ul>
T0830.023	<ul style="list-style-type: none"> <li>• Upper turnbuckle arm</li> <li>• Regelbare ophangingsarm boven</li> <li>• Bras de susp. sup. réglables</li> <li>• Querlenkerachse vorne</li> </ul>
T0830.024	<ul style="list-style-type: none"> <li>• Alu. hex nut and pivot ball washer</li> <li>• Alu. hex. moer en kogel rondel</li> <li>• Vis hex. en alu et rondelles</li> <li>• Alu. Hex. Mutter und Unterlegscheibe</li> </ul>
T0830.025	<ul style="list-style-type: none"> <li>• Pivot ball</li> <li>• Kogelschroef</li> <li>• Rotule</li> <li>• Kugelschraube</li> </ul>
T0830.026	<ul style="list-style-type: none"> <li>• Pilot shaft</li> <li>• Koppelingsas</li> <li>• Axe de cloche</li> <li>• Kupplungsachse</li> </ul>
T0830.027	<ul style="list-style-type: none"> <li>• Pinion 26T</li> <li>• Tandwiel 26T</li> <li>• Couronne 26D</li> <li>• Zahnrad 26Z</li> </ul>
T0830.028	<ul style="list-style-type: none"> <li>• Pinion 20T</li> <li>• Tandwiel 20T</li> <li>• Couronne 20D</li> <li>• Zahnrad 20Z</li> </ul>
T0830.029	<ul style="list-style-type: none"> <li>• Spur gear 54T</li> <li>• Hoofdtandwiel 54T</li> <li>• Couronne principale 54D</li> <li>• Hauptzahnrad 54Z</li> </ul>
T0830.030	<ul style="list-style-type: none"> <li>• Spur gear 59T</li> <li>• Hoofdtandwiel 59T</li> <li>• Couronne principale 59D</li> <li>• Hauptzahnrad 59Z</li> </ul>
T0830.031	<ul style="list-style-type: none"> <li>• Spur gear (54T) flange</li> <li>• Tandwielmeenemer (54T)</li> <li>• Support de couronne (54T)</li> <li>• Zahnradmitnehmer (54Z)</li> </ul>
T0830.032	<ul style="list-style-type: none"> <li>• Spur gear (59T) flange</li> <li>• Tandwielmeenemer (59T)</li> <li>• Support de couronne (59T)</li> <li>• Zahnradmitnehmer (59Z)</li> </ul>
T0830.034	<ul style="list-style-type: none"> <li>• Drive train shaft</li> <li>• As voor ophangingsarm</li> <li>• Axe de triangle</li> <li>• Querlenker-Achse</li> </ul>
T0830.036	<ul style="list-style-type: none"> <li>• Cap joint</li> <li>• Aandrijfhuus</li> <li>• Noix de cardan</li> <li>• Antriebsgelenk</li> </ul>
T0830.037	<ul style="list-style-type: none"> <li>• Clutch driver</li> <li>• Koppeling aandrijver</li> <li>• Coupleur</li> <li>• Antriebskupplung</li> </ul>
T0830.038	<ul style="list-style-type: none"> <li>• Clutch drive shaft</li> <li>• Aandrijfas voor de koppeling</li> <li>• Axe de cloche</li> <li>• Kupplungs Antriebsachse</li> </ul>
T0830.039	<ul style="list-style-type: none"> <li>• Clutch shoes</li> <li>• Koppingschoenen</li> <li>• Masselottes</li> <li>• Kupplungsbacken</li> </ul>
T0830.040	<ul style="list-style-type: none"> <li>• Rear hubs</li> <li>• Achterste stuurblokken</li> <li>• Fusée AR</li> <li>• Hintere Achsschenkel</li> </ul>

**Spare parts list / Onderdelen  
Benötigtes / Pièces détachées**

T0830.041	<ul style="list-style-type: none"> <li>• Fuel tank</li> <li>• Brandstoftank</li> <li>• Réservoir</li> <li>• Kraftstofftank</li> </ul>
T0830.043	<ul style="list-style-type: none"> <li>• Radio plate handle</li> <li>• Radioplaat handvat</li> <li>• Poignée</li> <li>• Bugel für die RC-Platte</li> </ul>
T0830.044	<ul style="list-style-type: none"> <li>• Chassis</li> <li>• Chassis</li> <li>• Châssis</li> <li>• Chassis</li> </ul>
T0830.045	<ul style="list-style-type: none"> <li>• Clutch bell</li> <li>• Koppelingsklok</li> <li>• Cloche d'embrayage</li> <li>• Kupplungsglocke</li> </ul>
T0830.046	<ul style="list-style-type: none"> <li>• Differential bevel gears</li> <li>• Differentieeltandwielen</li> <li>• Pignons de différentiel</li> <li>• Kegeltandrad für Differential</li> </ul>
T0830.047	<ul style="list-style-type: none"> <li>• Cap joint</li> <li>• Aandrijfhus</li> <li>• Noix de cardan</li> <li>• Antriebsgelenk</li> </ul>
T0830.048	<ul style="list-style-type: none"> <li>• Differential case</li> <li>• Differentieel behuizing</li> <li>• Carter de différentiel</li> <li>• Differential Gehäuse</li> </ul>
T0830.049	<ul style="list-style-type: none"> <li>• Bevel gear 38T</li> <li>• Differentieeltandwiel 34T</li> <li>• Couronne de différentiel 34D</li> <li>• Differentialzahnrad 34Z</li> </ul>
T0830.050	<ul style="list-style-type: none"> <li>• Bevel gear 11T</li> <li>• Differentieeltandwiel 11T</li> <li>• Couronne de différentiel 11D</li> <li>• Differentialzahnrad 11Z</li> </ul>
T0830.051	<ul style="list-style-type: none"> <li>• Cap joint</li> <li>• Aandrijfhus</li> <li>• Noix de cardan</li> <li>• Antriebsgelenk</li> </ul>
T0830.052	<ul style="list-style-type: none"> <li>• Center drive shaft</li> <li>• Aandrijf-as centraal</li> <li>• Cardan central</li> <li>• Antriebswelle Zentral</li> </ul>
T0830.053	<ul style="list-style-type: none"> <li>• Drive shaft front and rear</li> <li>• Aandrijf-as voor en achter</li> <li>• Cardans avant et arrière</li> <li>• Antriebswelle vorne und hinten</li> </ul>
T0830.054	<ul style="list-style-type: none"> <li>• Cap joint</li> <li>• Aandrijfhus</li> <li>• Noix de cardan</li> <li>• Antriebsgelenk</li> </ul>
T0830.055	<ul style="list-style-type: none"> <li>• Wheel hub</li> <li>• Aandrijfhexagoon</li> <li>• Hexagone de roue</li> <li>• Radnabe</li> </ul>
T0830.056	<ul style="list-style-type: none"> <li>• Servo saver slide bar</li> <li>• Servo saver verbindingsstang</li> <li>• Liaison sauve-servo</li> <li>• Verbindungsgestange Servo-Saver</li> </ul>
T0830.057	<ul style="list-style-type: none"> <li>• Servo saver arms</li> <li>• Servo saver armen</li> <li>• Bras de sauve-servo</li> <li>• Servo-Saver Hebel</li> </ul>
T0830.058	<ul style="list-style-type: none"> <li>• Pivot ball</li> <li>• Kogel</li> <li>• Rotule</li> <li>• Kugel</li> </ul>
T0830.059	<ul style="list-style-type: none"> <li>• Ball joint</li> <li>• Kogel</li> <li>• Rotule</li> <li>• Kugel</li> </ul>
T0830.060	<ul style="list-style-type: none"> <li>• Ball</li> <li>• Kogel</li> <li>• Rotule</li> <li>• Kugel</li> </ul>

T0830.061	<ul style="list-style-type: none"> <li>• Spacer</li> <li>• Afstelplaatje</li> <li>• Entretoises</li> <li>• Distanzbuchse</li> </ul>
T0830.062	<ul style="list-style-type: none"> <li>• Front bumper</li> <li>• Voorste bumper</li> <li>• Pare-chocs AV</li> <li>• Frontrammer</li> </ul>
T0830.063	<ul style="list-style-type: none"> <li>• Stabilizer</li> <li>• Stabilisator</li> <li>• Stabilisateur</li> <li>• Stabilisator</li> </ul>
T0830.064	<ul style="list-style-type: none"> <li>• Shock repair kit</li> <li>• Schokdemper herstel kit</li> <li>• Kit de réparation d'amortisseurs</li> <li>• Stoßdämpfer Herstellungsset</li> </ul>
T830.065	<ul style="list-style-type: none"> <li>• Shock repair kit</li> <li>• Schokdemper herstel kit</li> <li>• Kit de réparation d'amortisseurs</li> <li>• Stoßdämpfer Herstellungsset</li> </ul>
T0830.066	<ul style="list-style-type: none"> <li>• Shock absorber</li> <li>• Schokdemper</li> <li>• Amortisseurs</li> <li>• Stoßdämpfer</li> </ul>
T0830.067	<ul style="list-style-type: none"> <li>• Servo saver posts</li> <li>• Servo saver steun</li> <li>• Supports de sauve-servo</li> <li>• Servo-Saver Stutze</li> </ul>
T0830.068	<ul style="list-style-type: none"> <li>• Throttle linkage set</li> <li>• Stuurstangset voor de aandrijving</li> <li>• Tringlerie de gas/frein</li> <li>• Gestange für den Gaz</li> </ul>
T0830.069	<ul style="list-style-type: none"> <li>• Screw bag</li> <li>• Schroeven set</li> <li>• Visserie</li> <li>• Schraubenset</li> </ul>
T0620.037	<ul style="list-style-type: none"> <li>• Antenna pipe</li> <li>• Antenne buis</li> <li>• Tube d'antenne</li> <li>• Antenneschlauch</li> </ul>
T0830.071	<ul style="list-style-type: none"> <li>• Fuel tank post</li> <li>• Brandstoftanksteun</li> <li>• Supports de réservoir</li> <li>• Kraftstofftank Stutz</li> </ul>
T0830.072	<ul style="list-style-type: none"> <li>• Steering link</li> <li>• Stuurstang</li> <li>• Commande de direction</li> <li>• Steuerungsgestange</li> </ul>
T0830.073	<ul style="list-style-type: none"> <li>• Air filter</li> <li>• Luchtfilter</li> <li>• Filtre à air</li> <li>• Luftfilter</li> </ul>
T58.023	<ul style="list-style-type: none"> <li>• Ball bearing 10x15x4 mm</li> <li>• Kogellager 10x15x4 mm</li> <li>• Roulement à billes 10x15x4 mm</li> <li>• Kugellager 10x15x4 mm</li> </ul>
T0600.062	<ul style="list-style-type: none"> <li>• Ball bearing 5x10x4 mm</li> <li>• Kogellager 5x10x4 mm</li> <li>• Roulement à billes 5x10x4 mm</li> <li>• Kugellager 5x10x4 mm</li> </ul>
T58.022	<ul style="list-style-type: none"> <li>• Ball bearing 5x11x4 mm</li> <li>• Kogellager 5x11x4 mm</li> <li>• Roulement à billes 5x11x4 mm</li> <li>• Kugellager 5x11x4 mm</li> </ul>
T60.071	<ul style="list-style-type: none"> <li>• Ball bearing 4x8x3 mm</li> <li>• Kogellager 4x8x3 mm</li> <li>• Roulement à billes 4x8x3 mm</li> <li>• Kugellager 4x8x3 mm</li> </ul>
T58.043	<ul style="list-style-type: none"> <li>• Ball bearing 5x8x2,5 mm</li> <li>• Kogellager 5x8x2,5 mm</li> <li>• Roulement à billes 5x8x2,5 mm</li> <li>• Kugellager 5x8x2,5 mm</li> </ul>
T47.002	<ul style="list-style-type: none"> <li>• Ball bearing 6x13x5 mm</li> <li>• Kogellager 6x13x5 mm</li> <li>• Roulement à billes 6x13x5 mm</li> <li>• Kugellager 6x13x5 mm</li> </ul>





REF	DESCRIPTION	REF	DESCRIPTION
M1080.004	DRIVE WASHER	M1080.022	CRANK SHAFT BEARING REAR
M1080.005	CRANK SHAFT FOR PULL START .15	M1080.023	STARTER SHAFT
M1080.006	BLACK CRANK CASE W/O BEARING .15	M1080.024	SCREW FOR PULL START (4 PCS)
M1080.008	CONROD FOR STANDARD TYPE	M1080.025	SCREW SET FOR CARBURATOR (2 PCS)
M1080.009	WRIST PIN W/ PAD .15	M1080.026	CARBURATOR GASKET (1 PC)
M1080.010	PISTON & SLEEVE SET (NICKEL PLATING)	M1080.027	ADJUSTMENT SCREW SET W/ SPRING
M1080.011	CYLINDER HEAD (DIE-CASTING) .15	M1080.028	CRANK SHAFT BEARING FRONT
M1080.012	HEAD SHIM .15 (1 PC)	M1080.029	ROTOR SET .15 (4.6MM)
M1080.013	SCREW FOR HEAD (4 PCS)	M1080.031	CARBURATOR O-RING SET (2 PCS)
M1080.014	NEEDLE W/ O-RING	M1080.032	CARBURATOR GASKET SET (4 PCS)
M1080.016	NEEDLE AND NEEDLE VALVE SET	M1080.033	CARBURETOR MAIN BODY
M1080.018	PULL START ASSEMBLY W/O ONE WAY BEARING	M1080.035	THROTTLE ARM SET
M1080.019	BACK PLATE GASKET (1 PC)	M1080.050	BACK PLATE FOR PULL START
M1080.020	ROTARY CARBURETOR ASSEMBLY .15	M1080.051	SCREW FOR BACK PLATE (4 PCS)
M1080.021	ONE WAY BEARING		



CE 0560

**EC-Conformity Declaration**

For the following equipment:

**PISTOL TYPE 2 CH AM RADIO CONTROL SYSTEM**  
(Product Name)

**GENX**  
(Model Designation)

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to R&TTE Directive (99/5/EC). For the evaluation regarding the electromagnetic compatibility, the following standards were applied:

EN 300 220-3	September 2000	V1.1.1
ETS 300 683	June 1997	
EN 60950	August 1992	A1,A2,A3,A4,A11

The following importer/manufacturer is responsible for this declaration:

**PRO MODELS BVBA**  
(Company Name, Importer)

**CARDIJNLAAN 40  
B 2200 HERENTALS**  
(Company Address, Importer)

Contact Person for this declaration

**STEFAN ENGELEN**  
Name, Surname, Importer)

**DIRECTOR**  
(Position/Title)

(Legal Signature)

Person responsible for this declaration:

**J.C.TSAI GEWISF Industrial Inc.**  
(Name, Surname, Manufacturer)

**VICE PRESIDENT**  
(Position/Title)

(Legal Signature)

**BELGIUM - HERENTALS 08-05-2001**  
(Place) (Date)

**Taiwan, R.O.C.**  
(Place)

**APR. 26. 2001**  
(Date)

• **This product is in accordance with the CE directives 1999/5/EG R&TTE**

This product is destined for use in Europe. Use may be restricted by licence in some countries.

• **Dit produkt is in overeenstemming met de CE richtlijnen 1999/5/EG R&TTE**

Dit produkt is bestemd voor gebruik in Europa. Gebruik kan beperkt zijn door vergunningen in bepaalde landen.

• **Dieses Produkt stimmt überein mit den CE Richtlinien 1999/5/EG R&TTE**

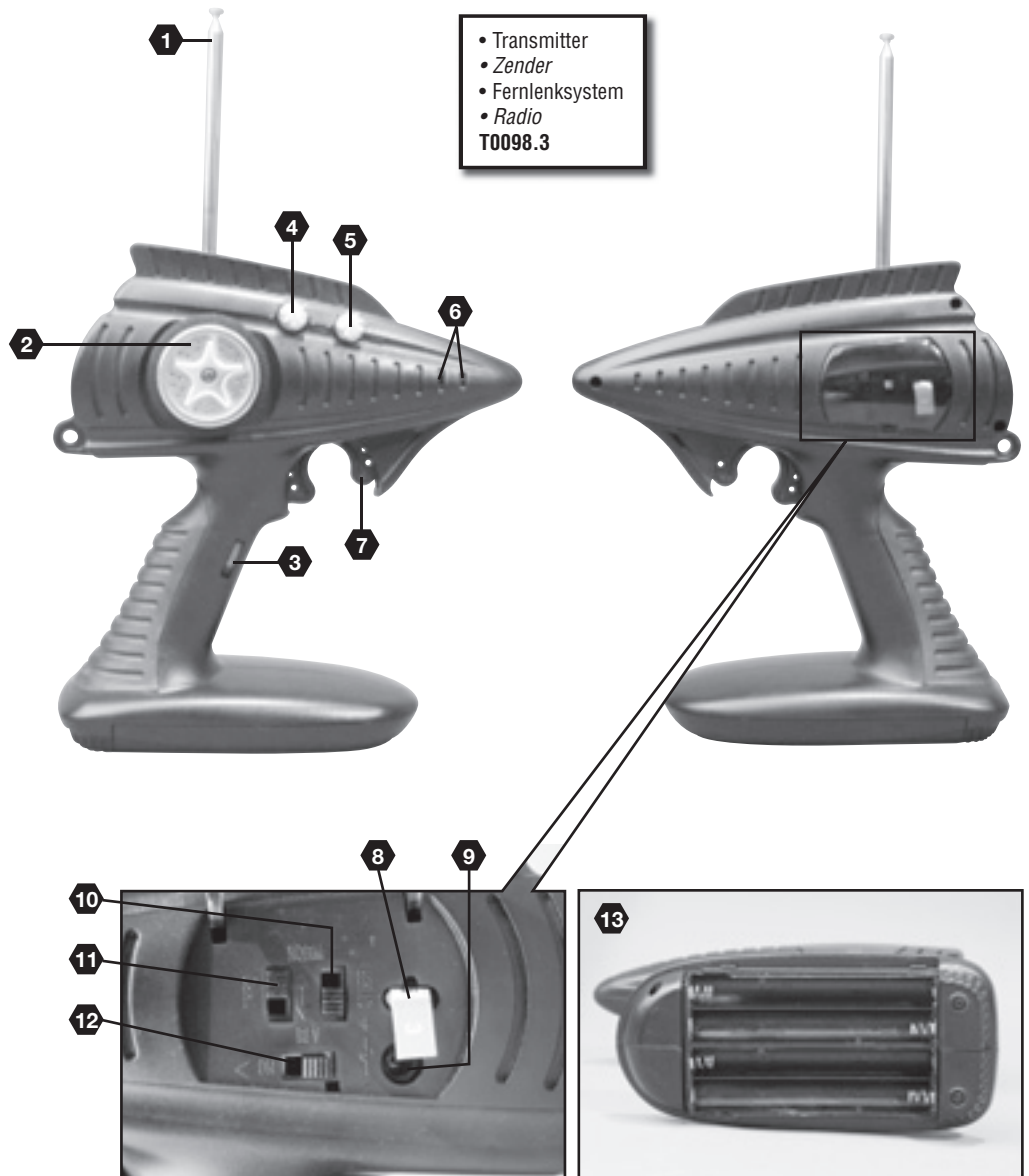
Dieses Produkt ist bestimmt für Gebrauch in Europa. Das Gebrauch kann eingeschränkt sein durch ein Erlaubniss in einige Länder.

• **Ce produit est conforme aux directives CE 1999/5/EG R&TTE**

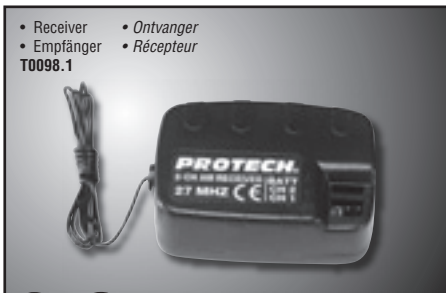
Ce produit est destiné pour emploi en Europe. L'emploi peut être limité par une autorisation dans certains pays.

## Transmitter / Zender Fernlenksystem / Radio

- 1 • Antenne  
• Antenne  
• Antenne  
• Antenne
- 2 • Steering wheel  
• Stuurwiel  
• Steuerrad  
• Volant de direction
- 3 • Steering adjustment  
• Stuurweginstelling  
• Steuerweg einstellung  
• Réglage de débattement de direction
- 4 • Throttle trim  
• Gastrim  
• Gas Trim  
• Trim gas/frein
- 5 • Steering trim  
• Stuurtrim  
• Steuer Trim  
• Trim de direction
- 6 • LED indication  
• LED indicatie  
• LED Anzeige  
• LED de contrôle
- 7 • Throttle lever  
• Gashendel  
• Gashebel  
• Poigné de gaz-frein
- 8 • Crystal  
• Kristal  
• Quartz  
• Quartz
- 9 • Charge output  
• Laaduitgang  
• Lade-Ausgang  
• Sortie de charge
- 10 • Servoreverse (steering)  
• Stuurweg ompoling  
• Servo umpolung (Steuer)  
• Inverseur servo (direction)
- 11 • Servoreverse (throttle)  
• Gasweg ompoling  
• Servo umpolung (Gas)  
• Inverseur servo (gas/frein)
- 12 • ON-OFF switch  
• AAN-UIT schakelaar  
• EIN-ABB Schalter  
• Interrupteur MARCHE-ARRET
- 13 • Battery holder (8 pcs)  
• Batterijhouder (8 stuks)  
• Batteriehalterung (8 Stück)  
• Compartiment pour piles (8 pcs)



• Transmitter  
• Zender  
• Fernlenksystem  
• Radio  
**T0098.3**



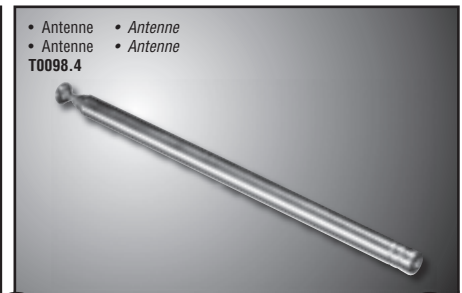
• Receiver • Ontvanger  
• Empfänger • Récepteur  
**T0098.1**

• Radio hatch • Afsluitklep zender  
• Senderschließer • Couverture de l'émetteur  
**T0098.5**



• Servo • Servo  
• Servo • Servo  
**T0098.2**

• Servo gear set • Servo tandwielset  
• Servo Zahnräder Satz • Set de pignons servo  
**T0098.6**



• Antenne • Antenne  
• Antenne • Antenne  
**T0098.4**

• Battery holder  
• Batterijhouder  
• Akku Halter  
• Support d'accu  
**T0098.7**

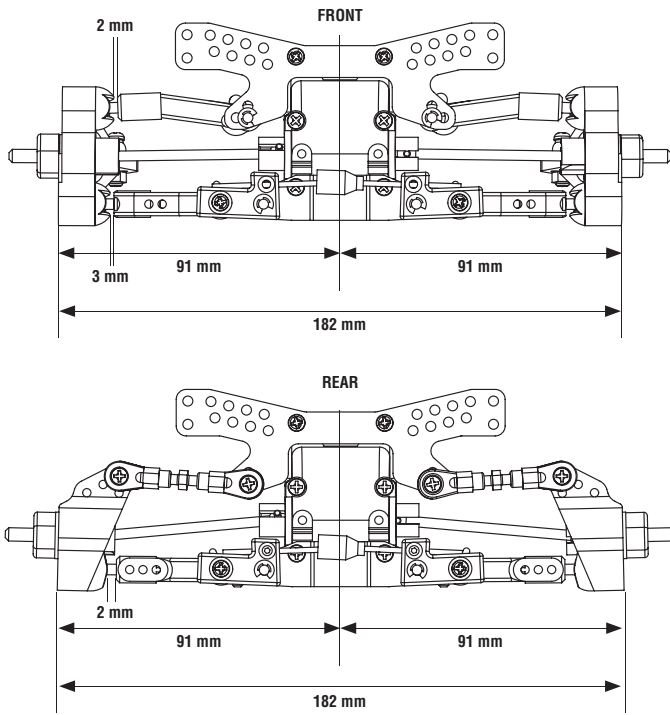
# 2 CHANNEL PISTOL RADIO SPARE PARTS



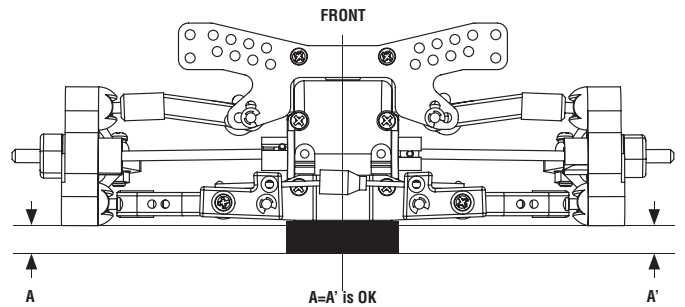
**Frequencies / Frequency  
Frequenz / Fréquences**

Frequentie Frequency Frequenz Bande	Kanaal Channel Kanal Canal	Frequentie Frequency Frequenz Fréquence	Toegelaten in volgende landen Admitted in following countries Zugelassen in folgende Länder Admises dans les pays suivants										
			D	B	A	DK	F	I	L	N	NL	S	CH
<b>27 MHz-Band</b>													
	1	26,965											
	2	26,975											
	3	26,985											
	4	26,995	#	#	#	#		#	#	#	#	#	#
	5	27,005	#					#					
	6	27,015	#					#					
	7	27,025	#					#					
	8	27,035	#					#					
	9	27,045	#	#	#	#		#	#	#	#	#	#
	10	27,055	#					#					
	11	27,065	#					#					
	12	27,075	#					#					
	13	27,085	#					#					
	14	27,095	#	#	#	#		#	#	#	#	#	#
	15	27,105	#					#					
	16	27,115	#					#					
	17	27,125	#					#					
	18	27,135	#					#					
	19	27,145	#	#	#	#		#	#	#	#	#	#
	20	27,155						#					
	21	27,165						#					
	22	27,175						#					
	23	27,185						#					
	24	27,195	#	#	#	#		#	#	#	#	#	#
	25	27,205						#					
	26	27,215						#					
	27	27,225						#					
	28	27,235					#	#					
	29	27,245						#					
	30	27,255	#		#	#		#	#	#	#	#	#
	31	27,265						#					
	32	27,275					#	#					
<b>40 MHz-Band</b>													
	50	40,665	#	#	#	#			#	#	#	#	#
	51	40,675	#	#	#	#			#	#	#	#	#
	52	40,685	#	#	#	#			#	#	#	#	#
	53	40,695	#	#	#	#			#	#	#	#	#
	54	40,715	#					#			#	#	#
	55	40,725	#					#			#	#	#
	56	40,735	#					#			#	#	#
	57	40,765	#					#			#	#	#
	58	40,775	#					#			#	#	#
	59	40,785	#					#			#	#	#
	81	40,815	#					#			#	#	#
	82	40,825	#					#			#	#	#
	83	40,835	#					#			#	#	#
	84	40,865	#					#			#	#	#
	85	40,875	#					#			#	#	#
	86	40,885	#					#			#	#	#
	87	40,915	#					#			#	#	#
	88	40,925	#					#			#	#	#
	89	40,935	#					#			#	#	#
	90	40,965	#					#			#	#	#
	91	40,975	#					#			#	#	#
	92	40,985	#					#			#	#	#
<b>41 MHz-Band</b>													
	400	41,000				#							
	401	41,010				#							
	402	41,020				#							
	403	41,030				#							
	404	41,040				#							
	405	41,050				#							
	406	41,060				#							
	407	41,070				#							
	408	41,080				#							
	409	41,090				#							
	410	41,100				#							
	411	41,110				#							
	412	41,120				#							
	413	41,130				#							
	414	41,140				#							
	415	41,150				#							
	416	41,160				#							
	417	41,170				#							
	418	41,180				#							
	419	41,190				#							
	420	41,200				#							

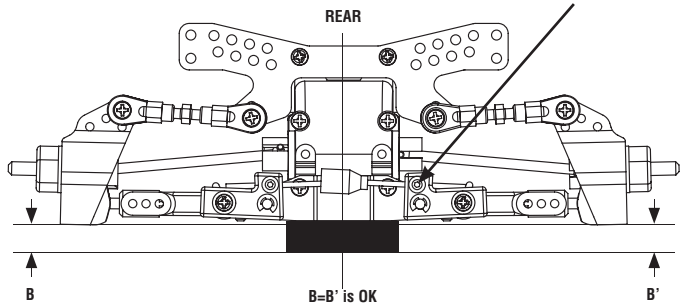
**FRONT & REAR width setting**



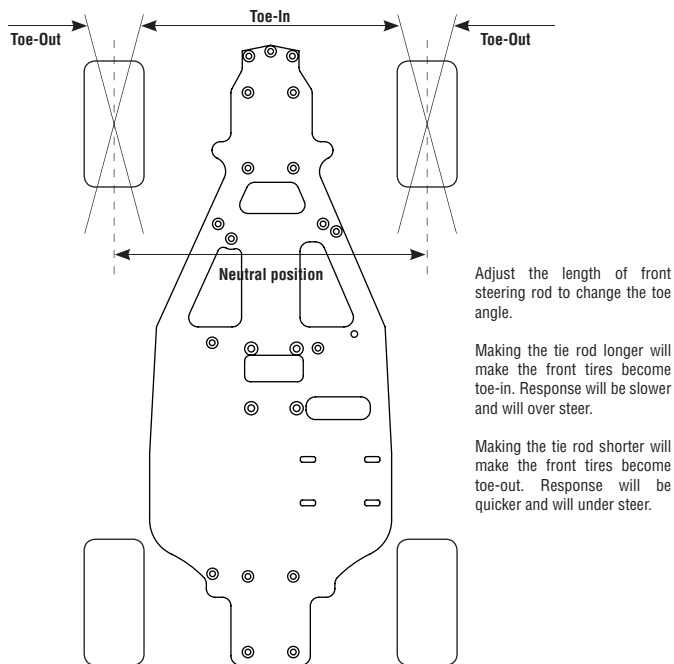
**FRONT down stop**



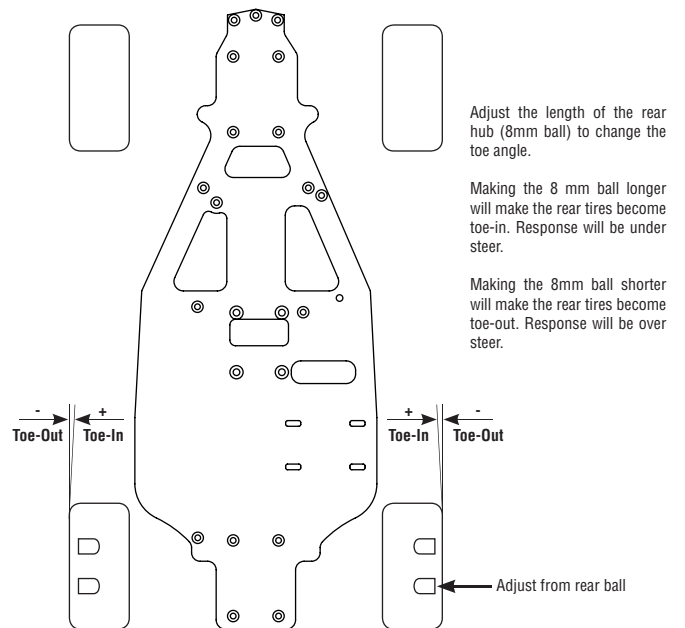
**REAR down stop**



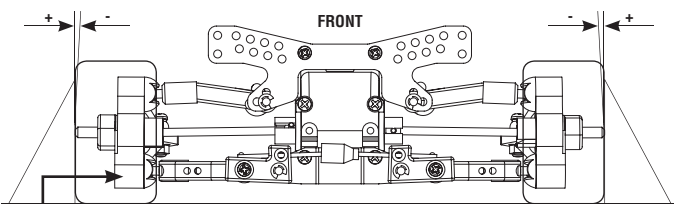
**FRONT TOE-IN & TOE-OUT setting**



**REAR TOE-IN & TOE-OUT setting**



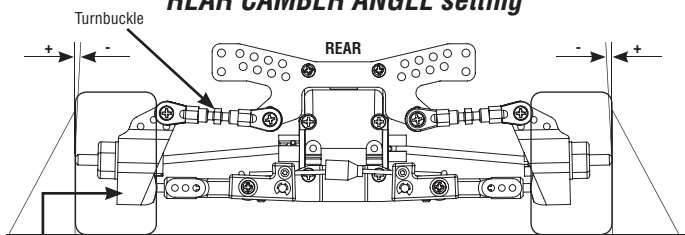
**FRONT CAMBER ANGLE setting**



Use 2.5mm hex wrench to adjust lower arm ball in front.

Place the model car on a flat surface. Raise the chassis to it's maximum clearance before the wheels leave the ground. Adjust length of the front and rear lower ball so that the wheels are at right angles to the ground.

**REAR CAMBER ANGLE setting**

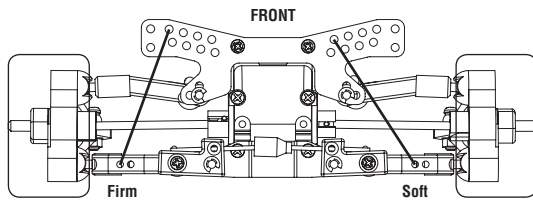


Use 2.5mm hex wrench to adjust lower arm ball in front.

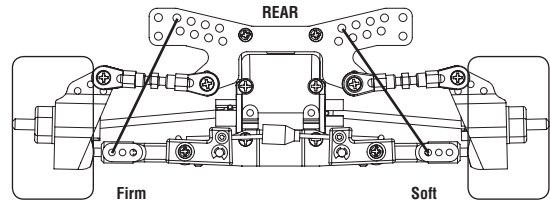
The rear camber adjustment can be made by moving the turnbuckle rod on the upper arms, clockwise or anticlockwise. We suggest zero degrees for the front and one degree negative for the rear.

## Set-up guide

### SHOCK ANGLE setting - use these settings to tune your car



Firm front suspension, less steering.  
Soft front suspension, more steering.



Firm rear suspension, less steering.  
Soft rear suspension, more steering.

### Viscosity of shock oil



Be aware that different shock oil will change the models performance.

Hardness	← Softer ————— Harder →						
Shock oil	10	20	30	40	50	80	100

### Viscosity of differential grease

FRONT	CENTER	REAR

### Set-up sheet

<b>DATE</b>	<b>ENGINE</b>	<b>TIRE (F)</b>		
<b>CIRCUIT</b>	<b>FUEL</b>	<b>TIRE (R)</b>		
		<b>TEMP</b>	<b>°C/F</b>	<b>WET</b>

	1	2	3	4	5	6	7	8
LAP 1								
LAP 2								
LAP 3								
LAP 4								
LAP 5								
LAP 6								
LAP 7								
LAP 8								
LAP 9								
LAP 10								
LAP 11								
Best Lap								

**Set-up sheet**

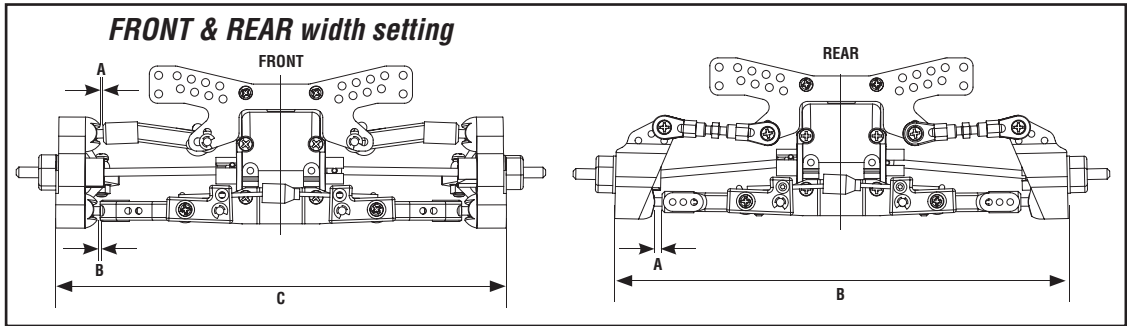
<b>DATE</b>	<b>ENGINE</b>	<b>TIRE (F)</b>		
<b>CIRCUIT</b>	<b>FUEL</b>	<b>TIRE (R)</b>		
		<b>TEMP</b>	<b>°C/F</b>	<b>WET</b>

**FRONT**

A=      mm  
 B=      mm  
 C=      mm

**REAR**

A=      mm  
 B=      mm

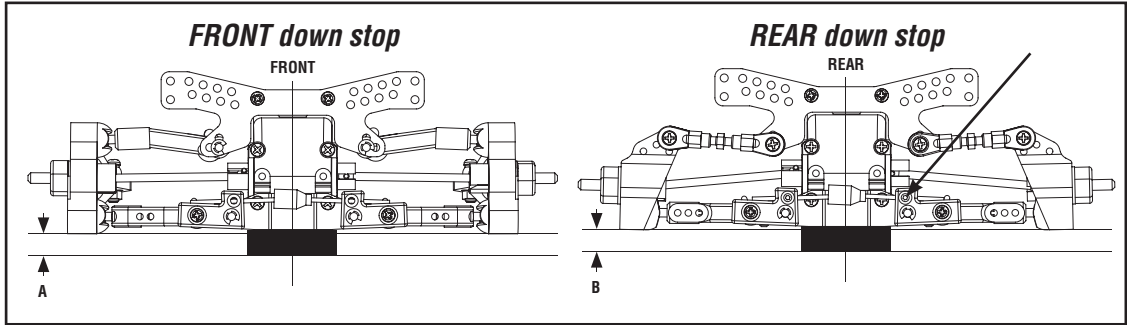


**FRONT**

A=      mm

**REAR**

B=      mm

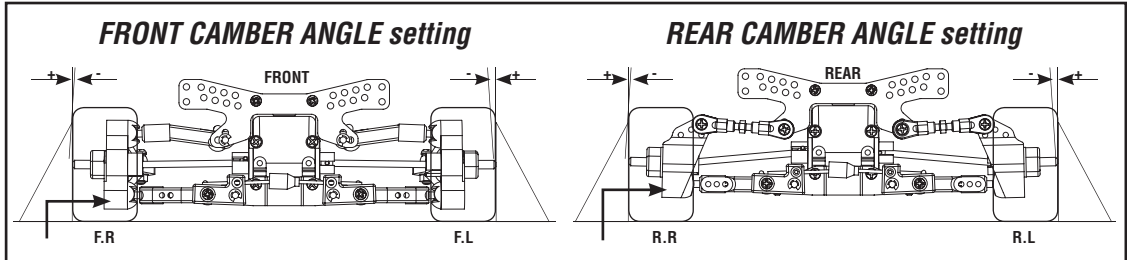


**FRONT**

F.L ° + -  
 F.R ° + -

**REAR**

R.L ° + -  
 R.R ° + -

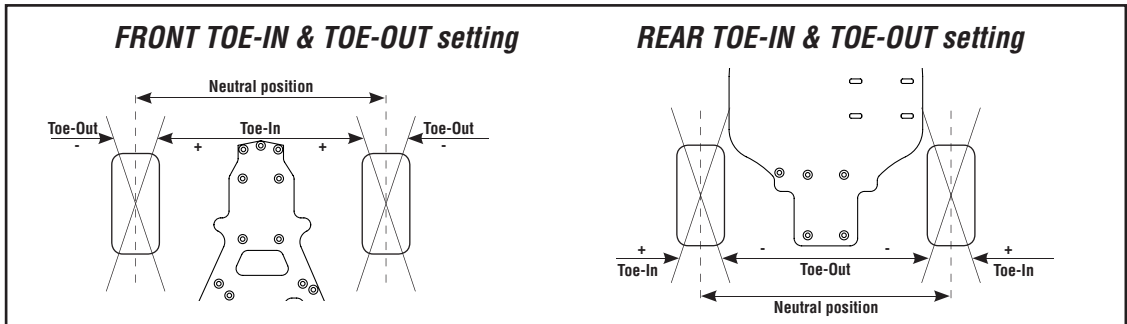


**FRONT**

° + - N  
 ° + - N

**REAR**

° + - N  
 ° + - N



**FRONT**

A 1 2 3 4  
           5 6 7 8

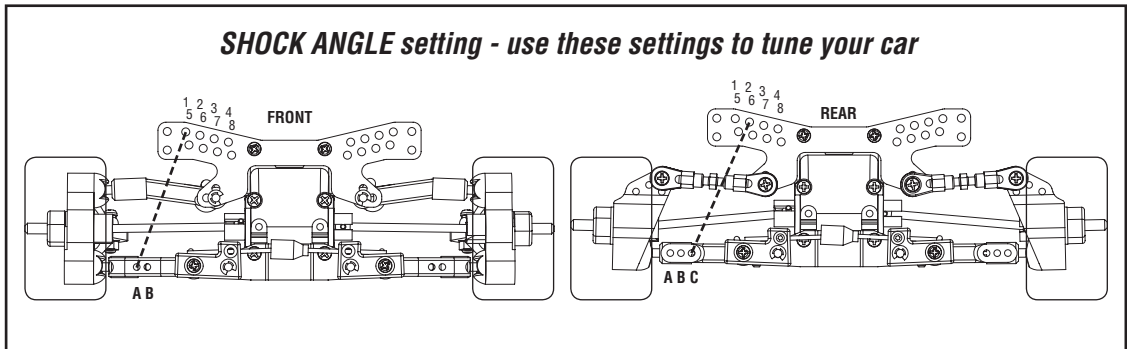
B 1 2 3 4  
           5 6 7 8

**REAR**

A 1 2 3 4  
           5 6 7 8

B 1 2 3 4  
           5 6 7 8

C 1 2 3 4  
           5 6 7 8



<b>HARDNESS OF SPRING</b>	<b>FRONT</b>			<b>REAR</b>		
	H	M	S	H	M	S

<b>SHOCK OIL</b>	<b>FRONT</b>	10W	20W	30W	40W	50W	60W
	<b>REAR</b>	10W	20W	30W	40W	50W	60W

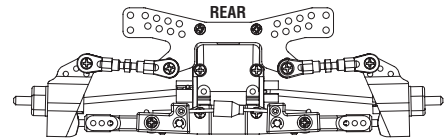
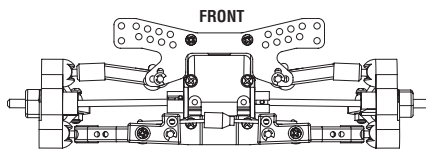
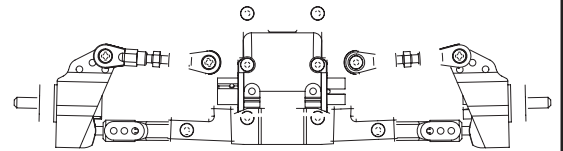
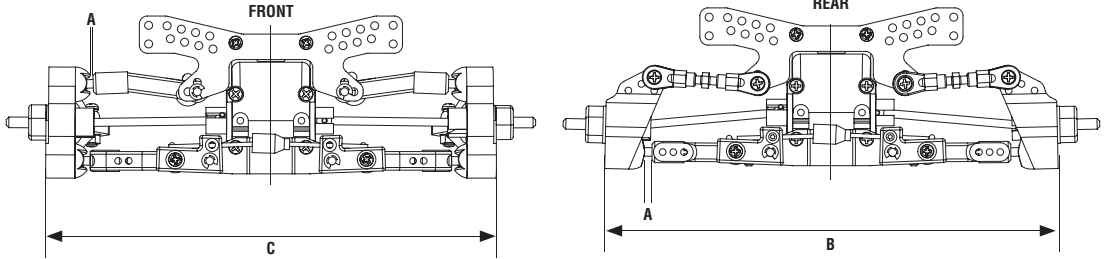




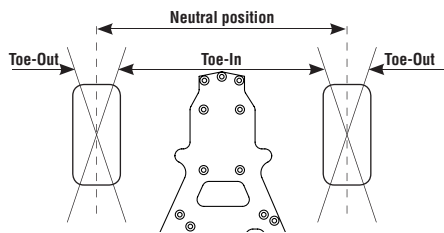
**Set-up sheet**

<b>DATE</b>	<b>ENGINE</b>	<b>TIRE (F)</b>		
<b>CIRCUIT</b>	<b>FUEL</b>	<b>TIRE (R)</b>		
		<b>TEMP</b>	<b>°C/F</b>	<b>WET</b>

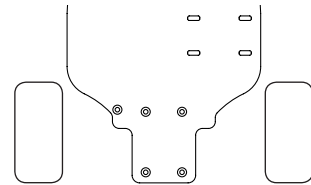
**FRONT & REAR width setting**



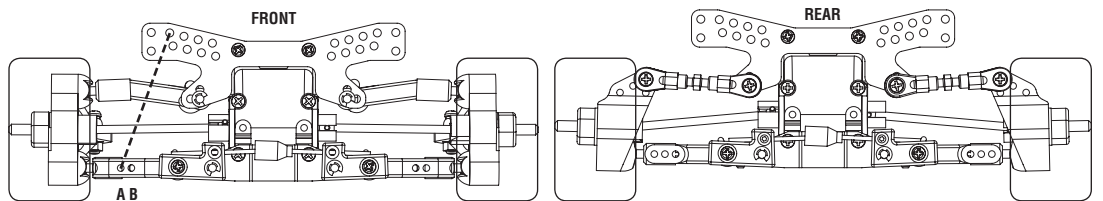
**FRONT TOE-IN & TOE-OUT setting**



**REAR TOE-IN & TOE-OUT setting**



**SHOCK ANGLE setting - use these settings to tune your car**



# ***All you need is inside our 300 pages full colour catalog***



**PROTECH® is a registered trademark  
Geelseweg 80 • B-2250 OLEN • Belgium  
Tel. +32 (0)14-25 92 83 • E-mail: [info@protech.be](mailto:info@protech.be)  
[www.protech.be](http://www.protech.be)**

**PROTECH®**