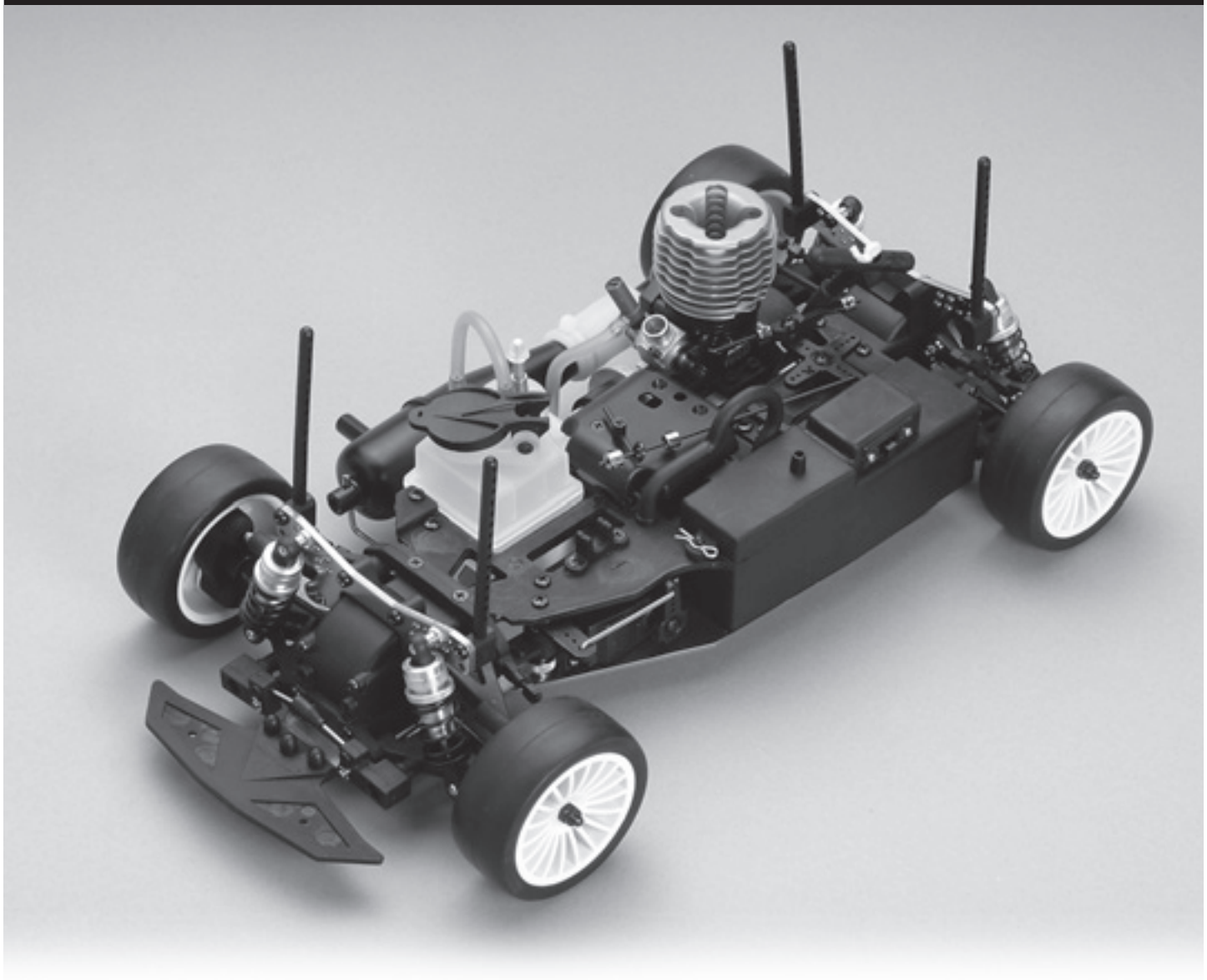
ST-4

1/10 scale nitro powered touring car

Instruction manual • Bouwhandleiding • Bauanleitung • Instructions de montage



PROTECH®

version: 26/10/2005

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
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
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
http://www.protech.be

Bitte verwenden Sie die in diesem Anweisungsheft auf Seite 25-26 abgedrückten 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

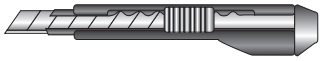
Ne seront prises en charge par le SAV, que les pièces présentant un vice de fabrication. En aucun cas, la mauvaise utilisation du produit ne peut engendrer un SAV gratuit.

SAV INTERNATIONALE
PROTECH
TEL: ++ 32 14 25 92 83
FAX: ++ 32 14 25 92 89
E-mail: info@promodels.be
http://www.protech.be

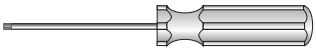
Afin de faciliter la recherche de vos pièces détachées, veuillez consulter la liste des pièces détachées en fin de cette notice

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 Benötigde Werkzeuge und Produkte / Outils & produits recommandés pour la maintenance

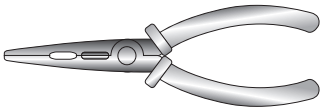


Sharp hobby knife
Scherp hobbymes
Hobby Messer
Couteau de modéliste

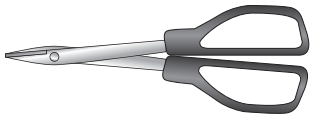


Hexwrench set
Set inbussleutels
Sechskant-Steckschlüssel
Set clés allen

PT400 4pcs

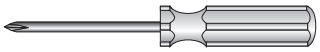


Needle nose plier
Bektang
Beiszange
Pince à becs

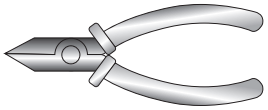


Curved scissors
Gebogen schaar
Gebogene Schere
Ciseaux

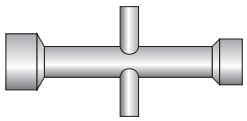
AK100



Philips screw driver
Kruisschroevendraaier
Schraubendreher
Tournevis Philips



Wire cutter
Draadstripper
Kneifzange
Pince coupante



Cross wrench
Kruissleutel
Kreuzschlussel
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

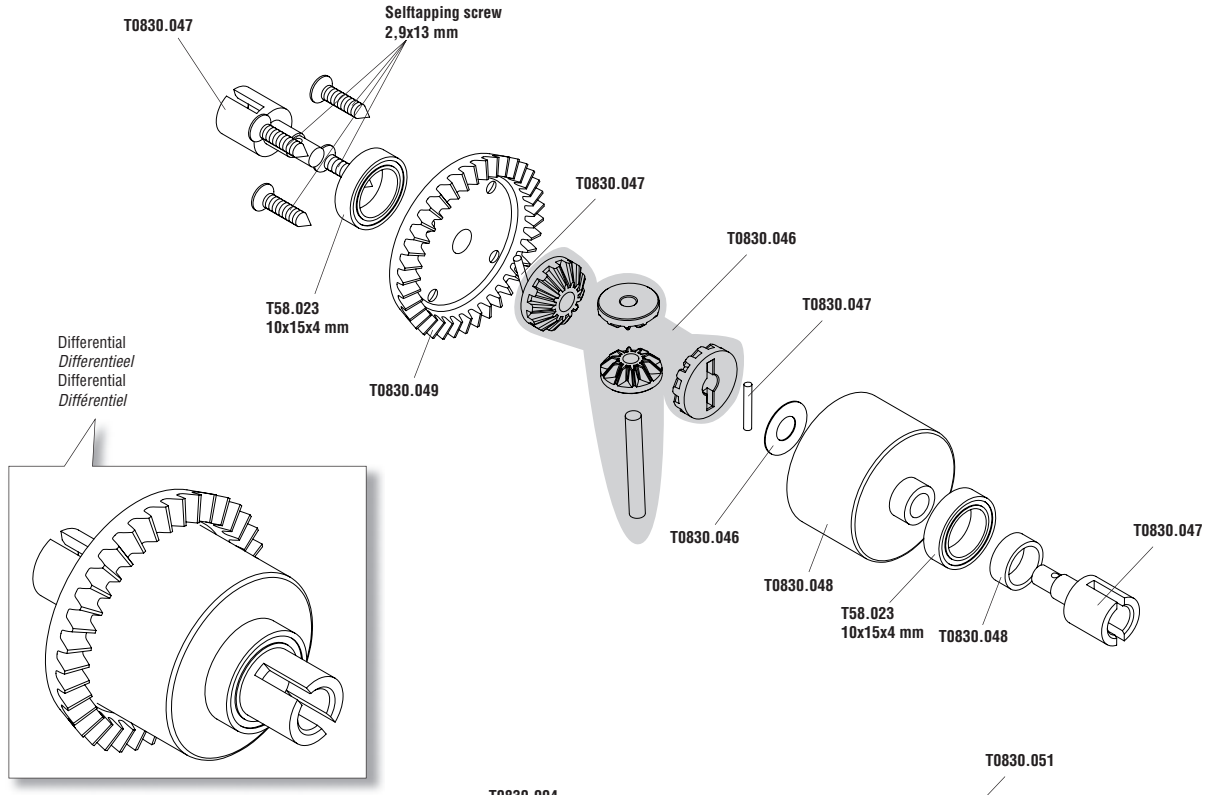
T0836.1
Porsche 911
Chassis + Body

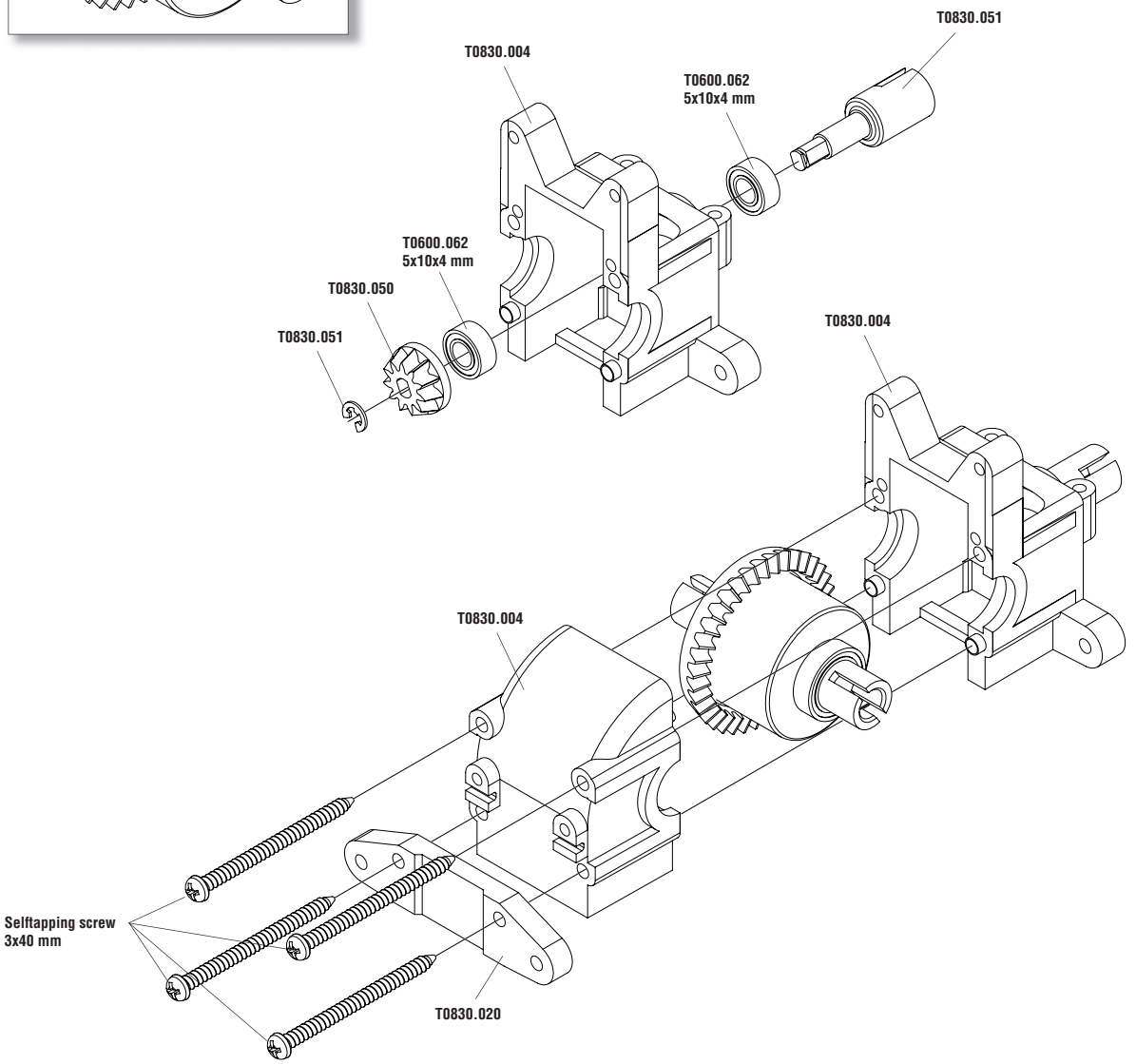
T0833.1
BMW M3
Chassis + Body

T0838.1
Subaru Impreza WRC
Chassis + Body

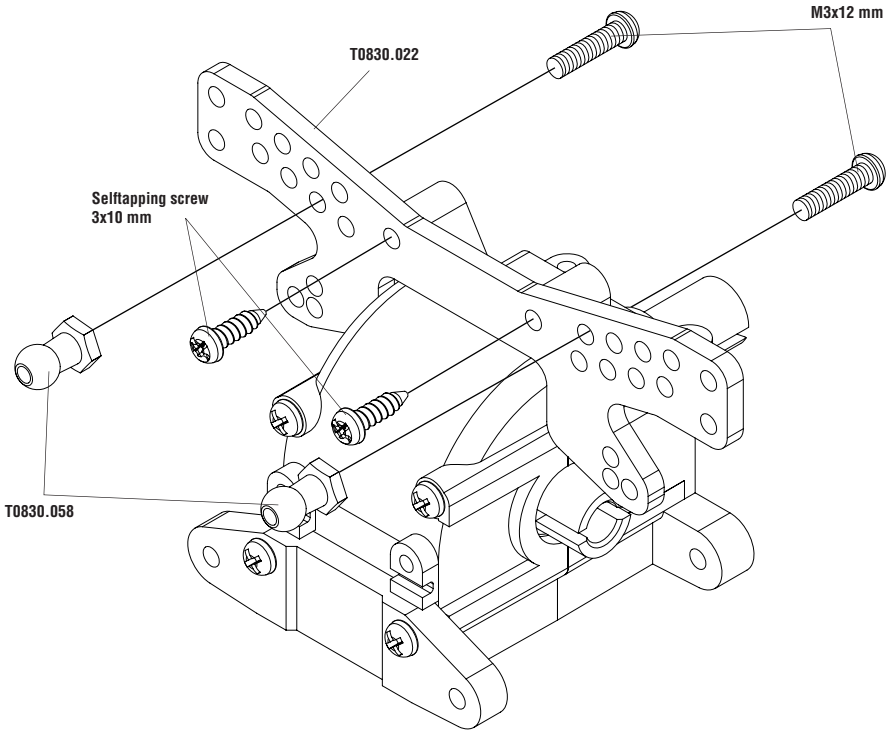
T0831.1
Renault Clio V6
Chassis + Body

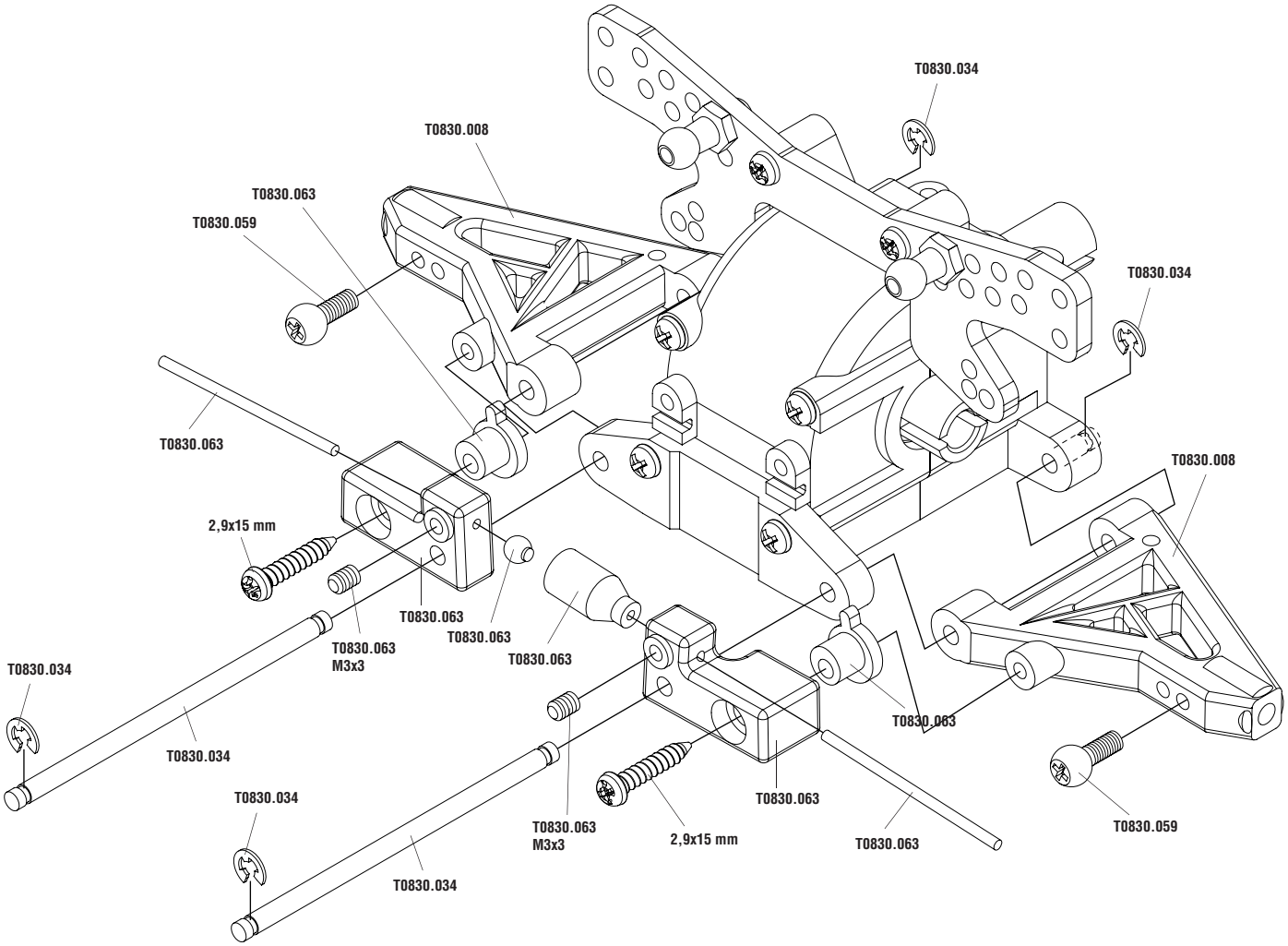
Assembly of the front differential / Montage van de voorste differentieel
Montierung von die Differentiale Vorne / Assemblage du différentiel avant





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





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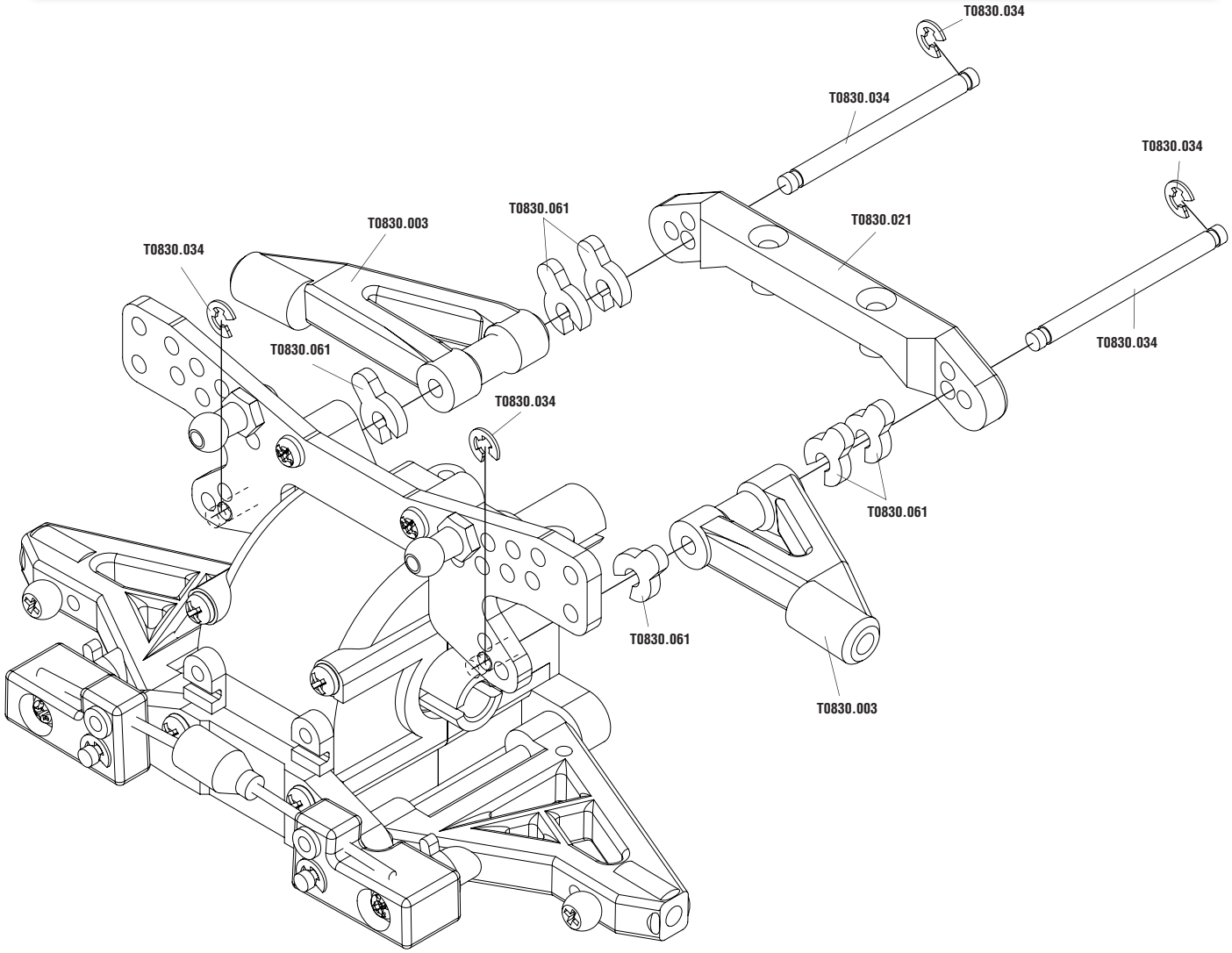
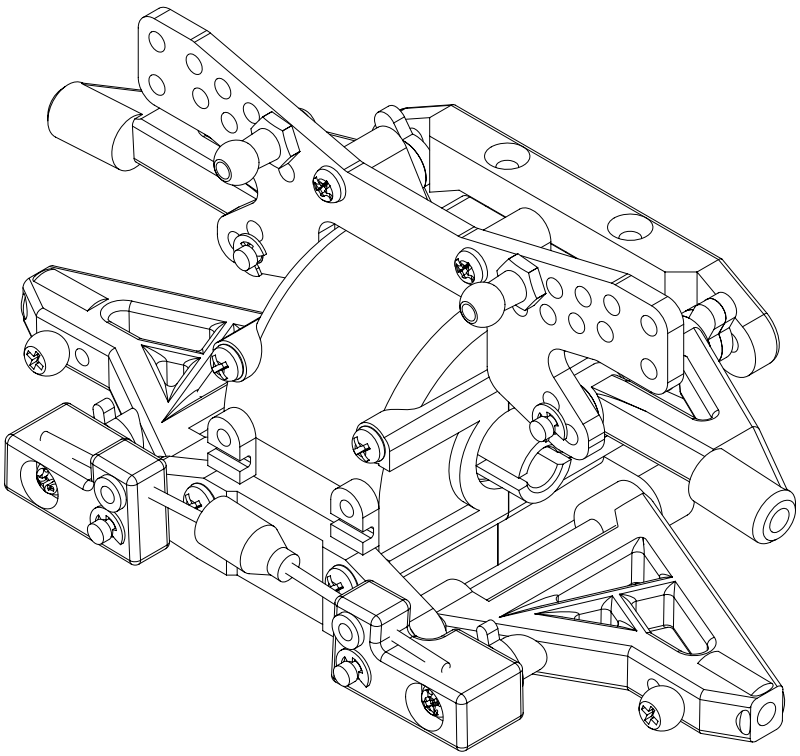
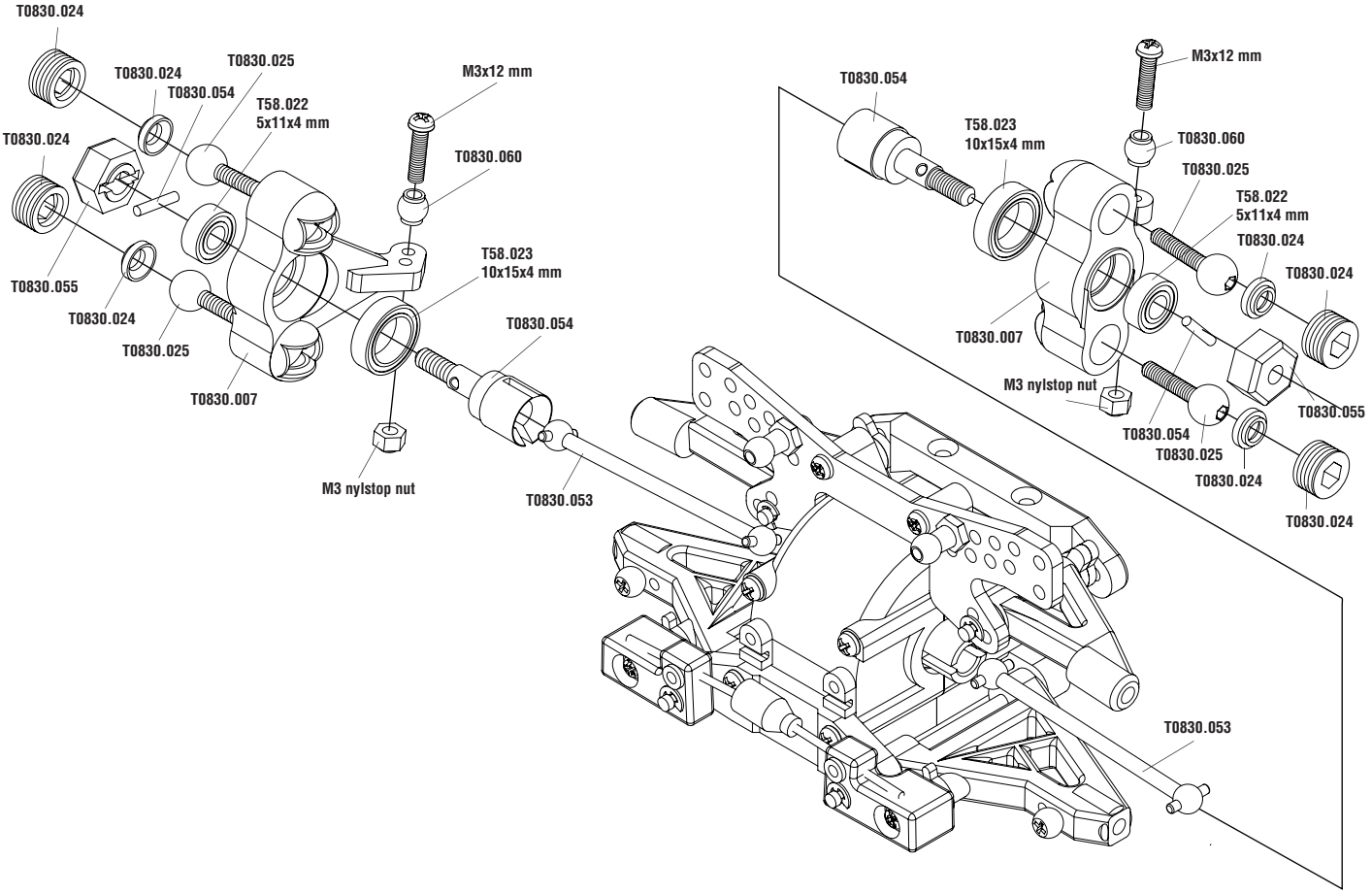
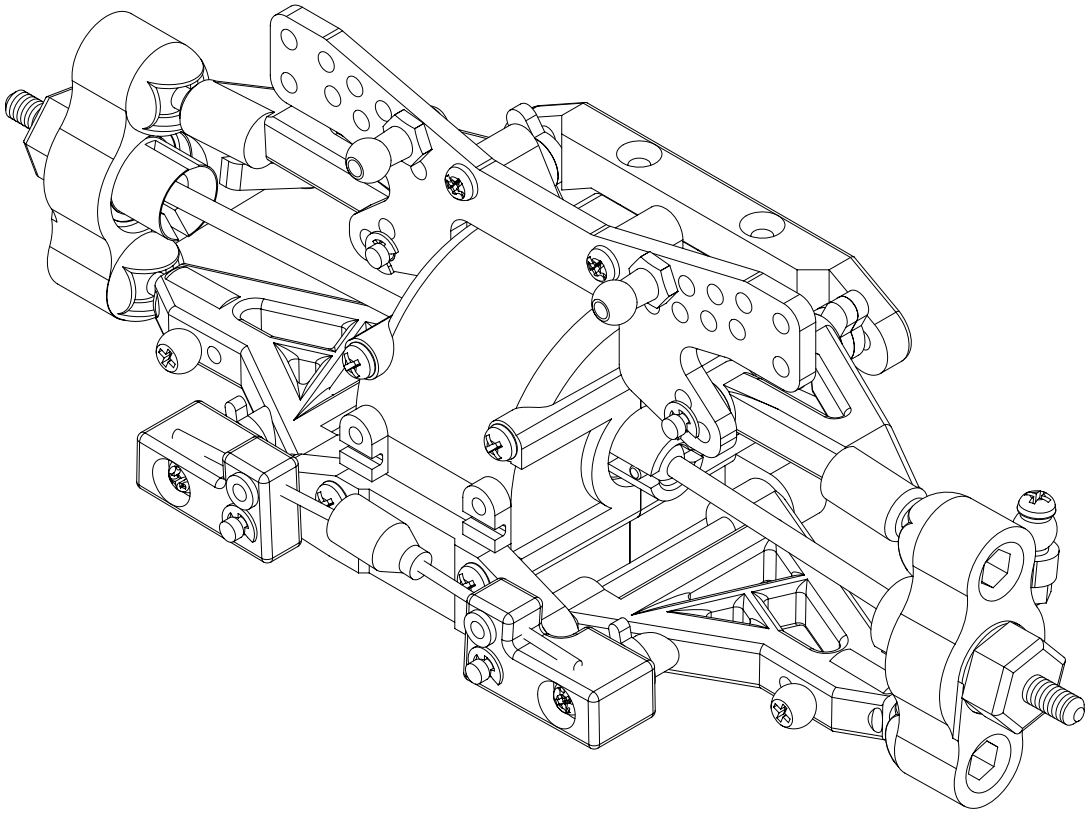
Montierung von die Querlenker vorne / Assemblage du train avant



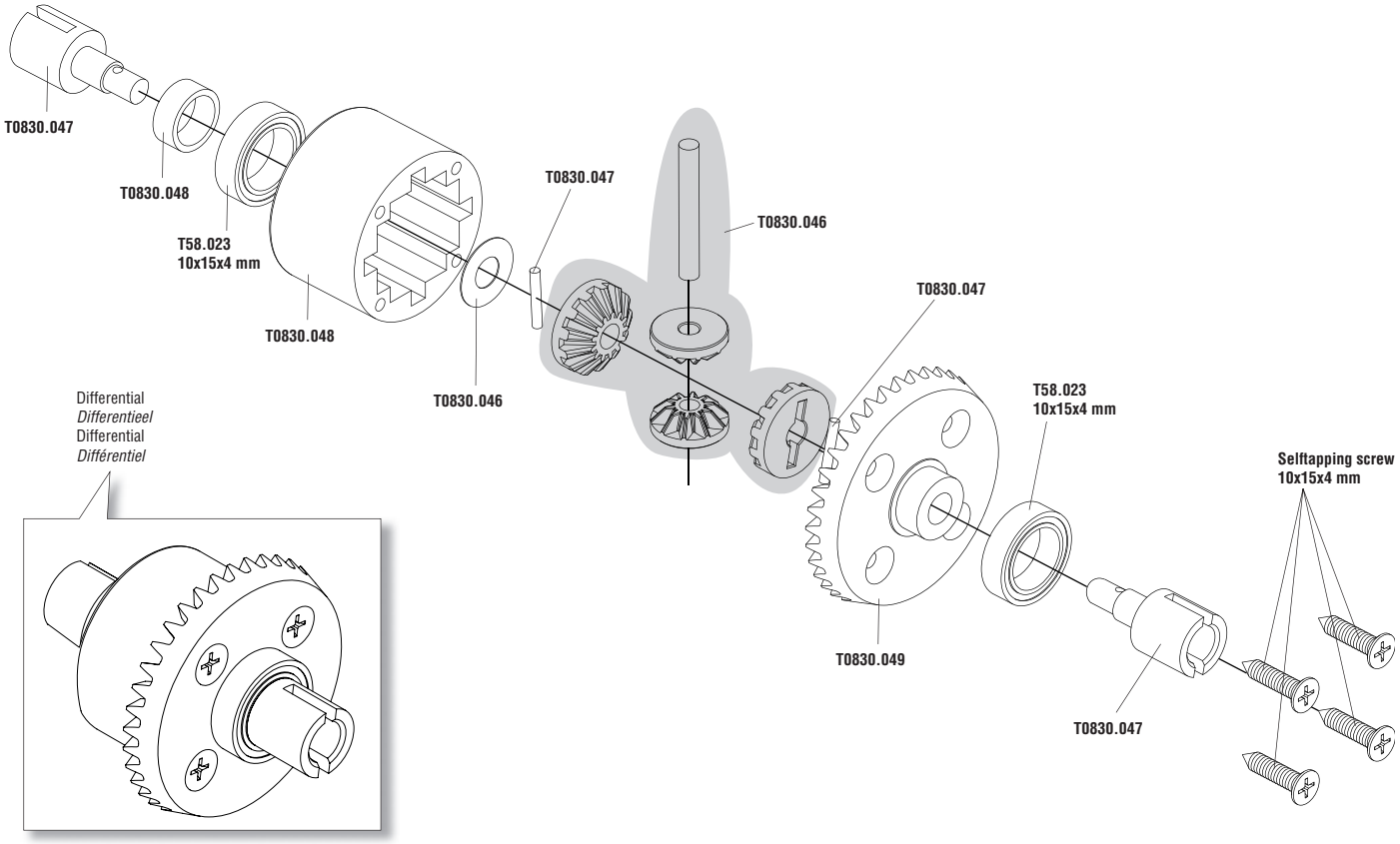


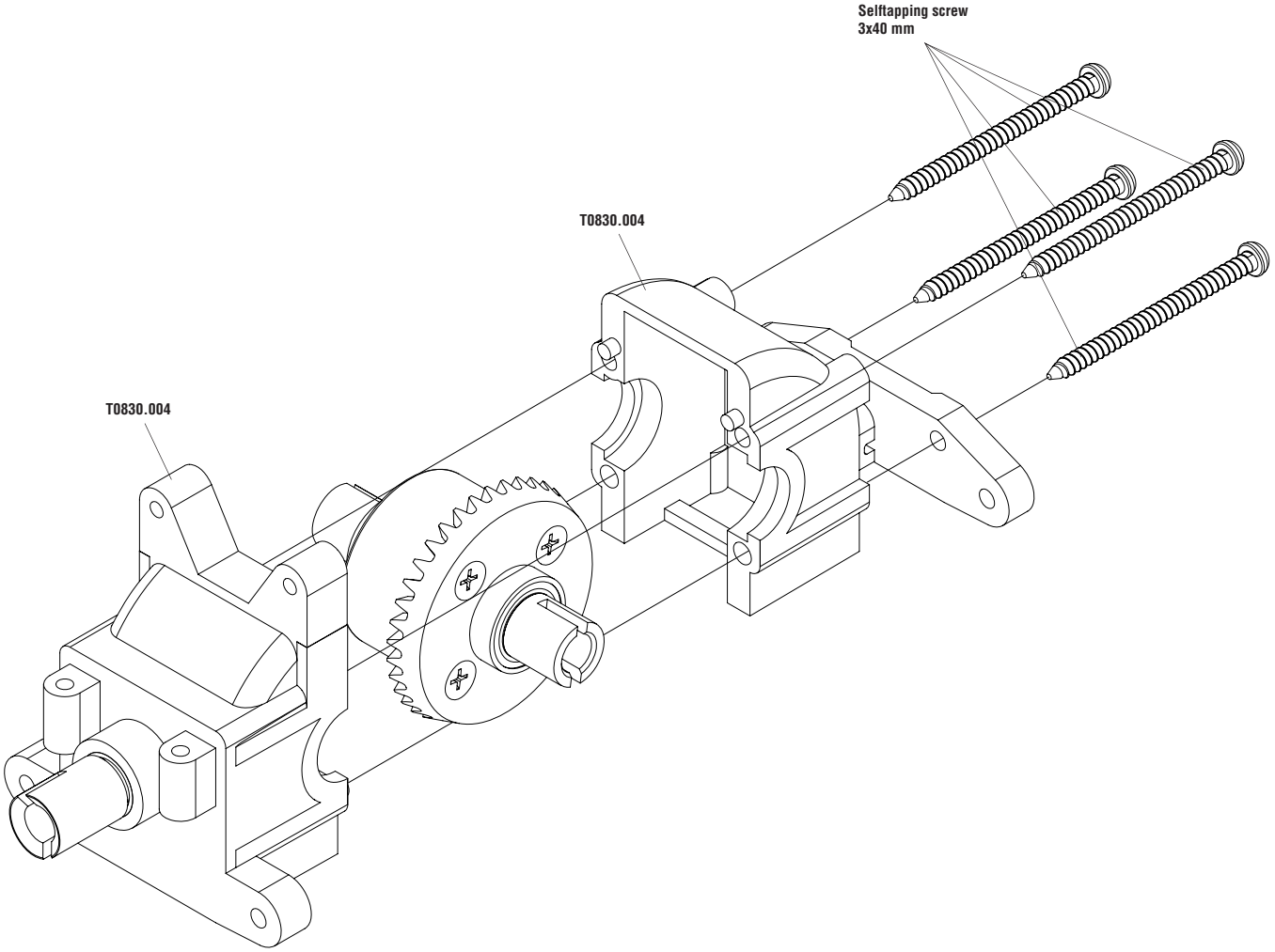
Mounting the front suspension arms / Montage van de voorste ophanging
Montierung von die Querlenker vorne / Assemblage du train avant



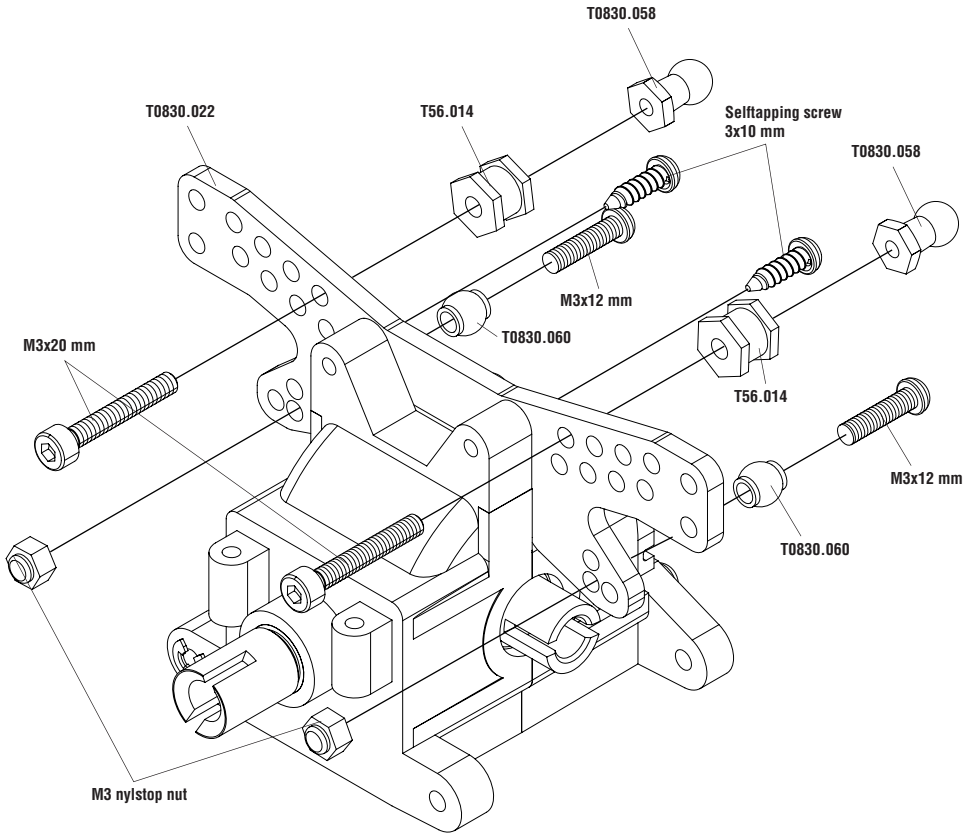


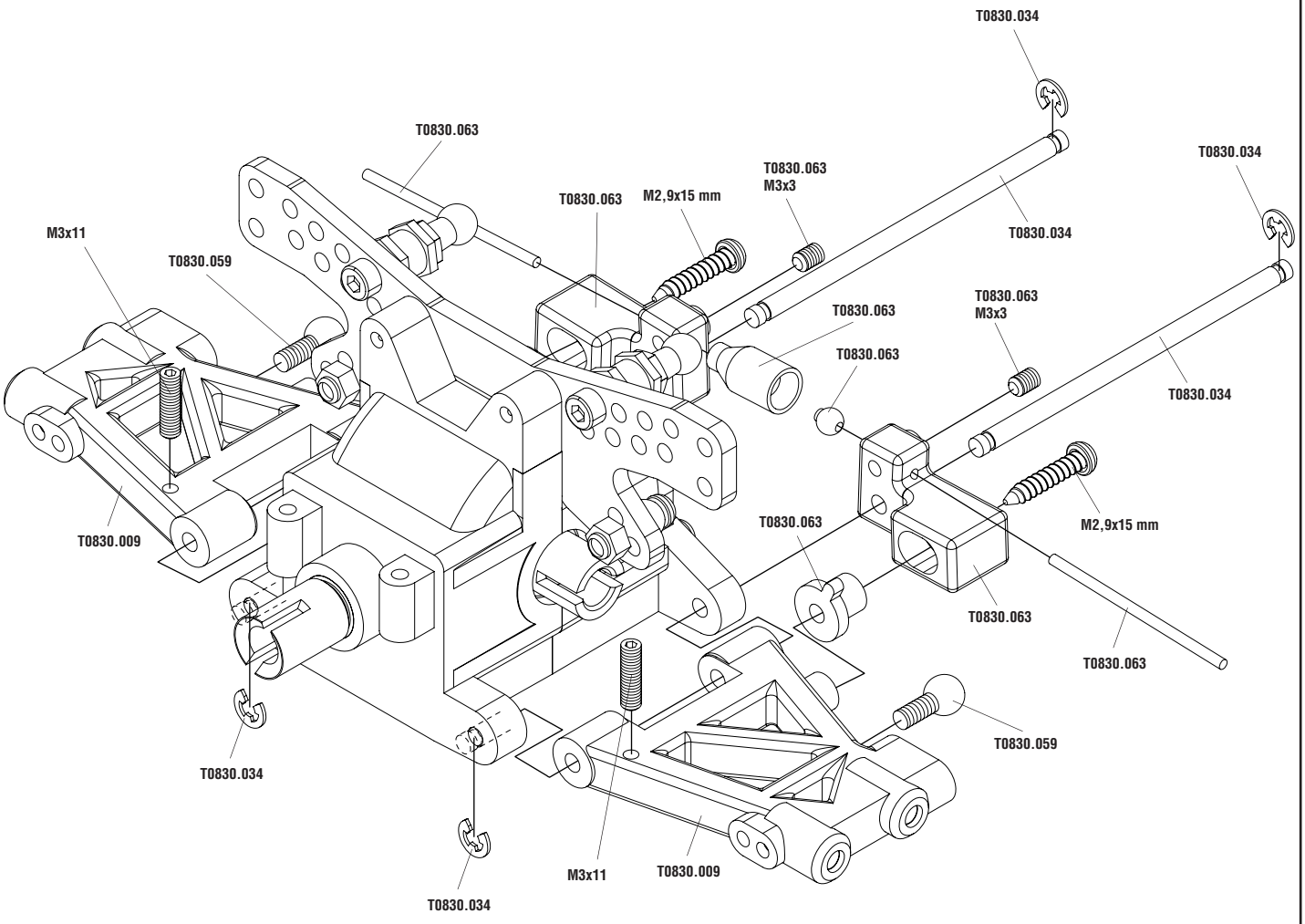
Assembly of the rear differential / Montage van de achterste differentieel
Montierung von die Differentiale hinten / Assemblage du différentiel arrière



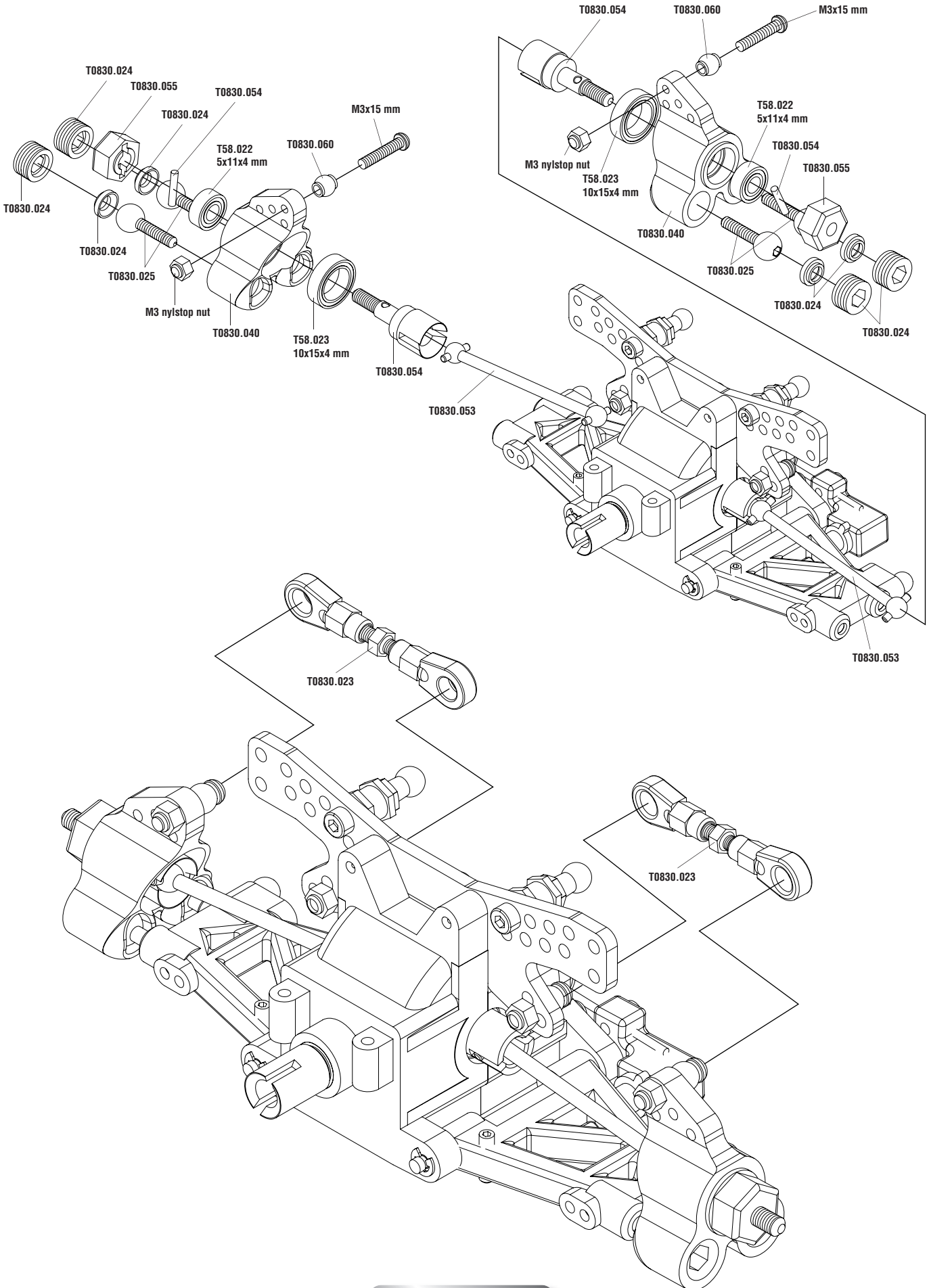


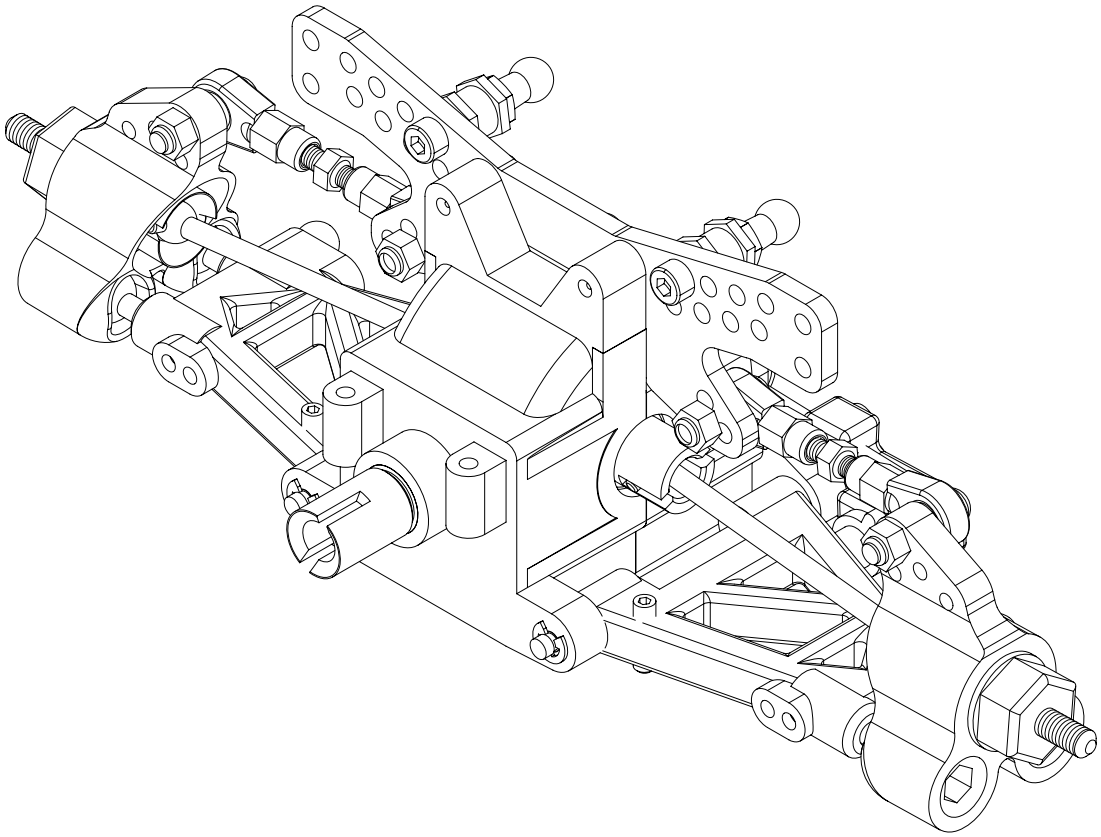
Mounting the rear suspension / Montage van de achterste ophanging
Montierung von Querlenker hinten / Assemblage du train arrière



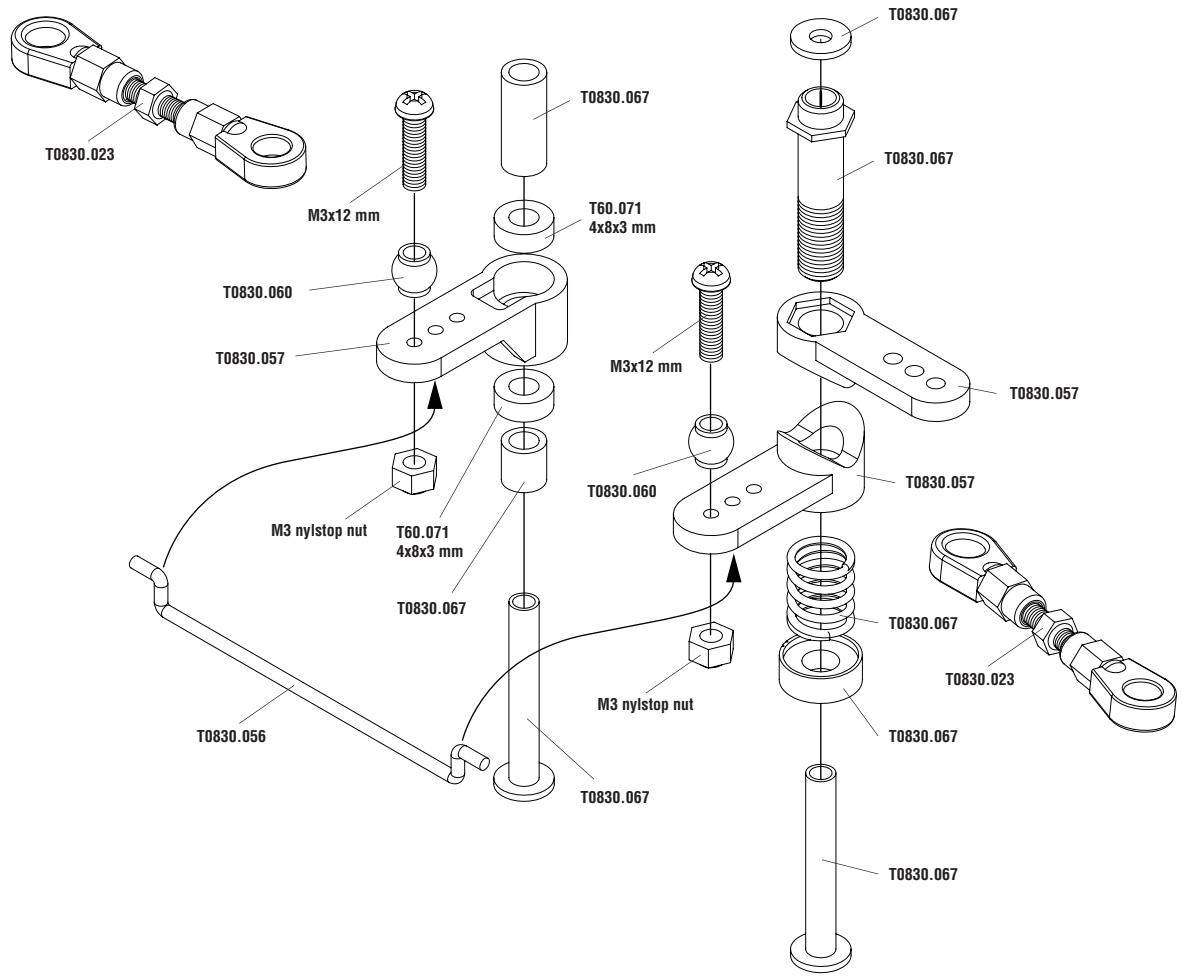


Mounting the rear suspension / Montage van de achterste ophanging
Montierung von Querlenker hinten / Assemblage du train arrière

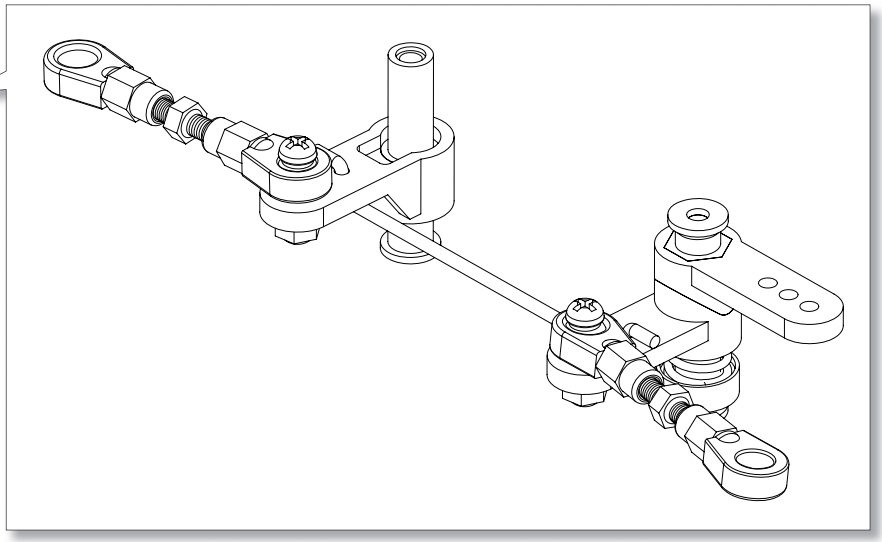




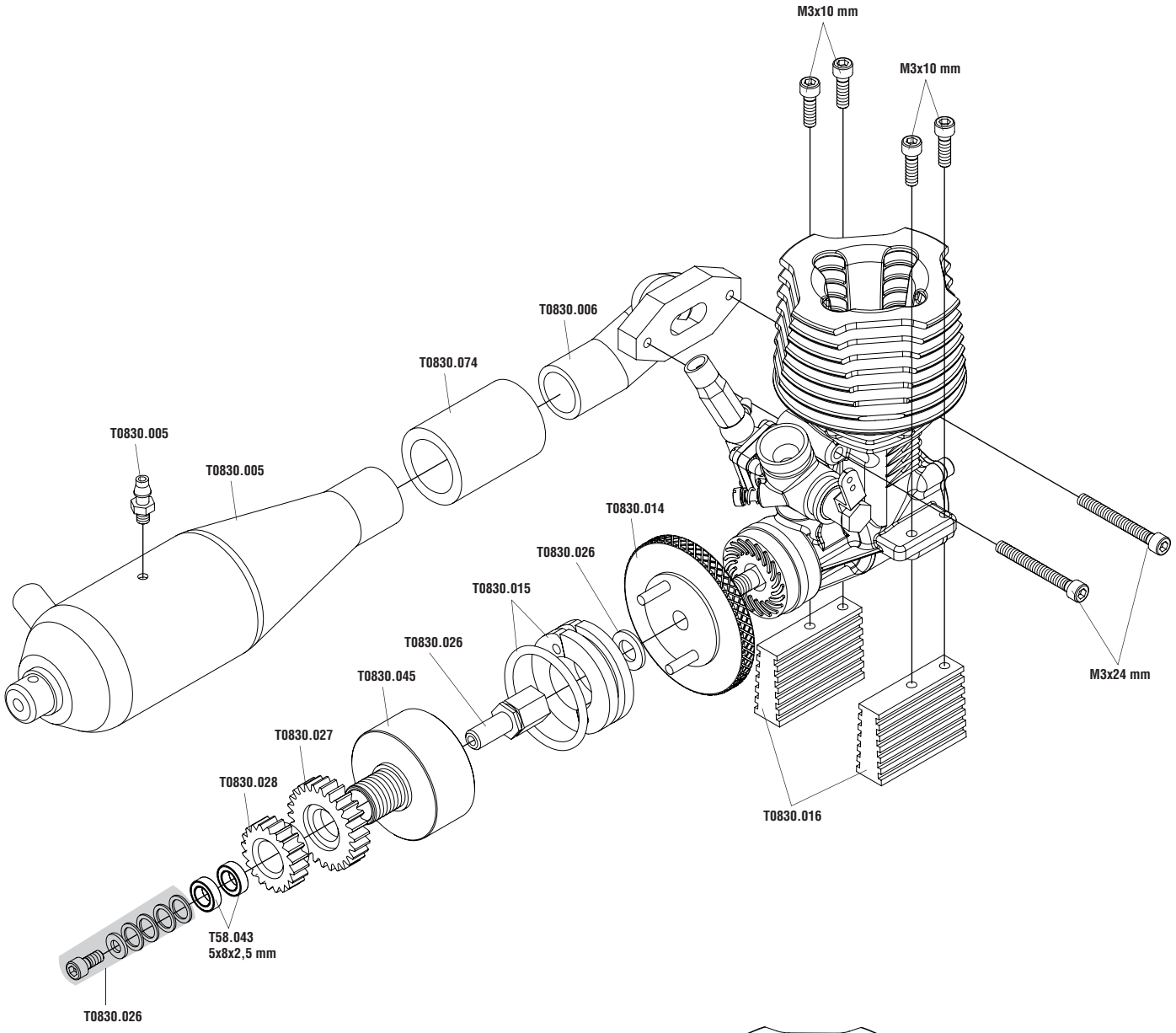
Assembly of the servo saver / Montage van de servo-saver
Montierung des Servo-Savers / Assemblage du sauve servo

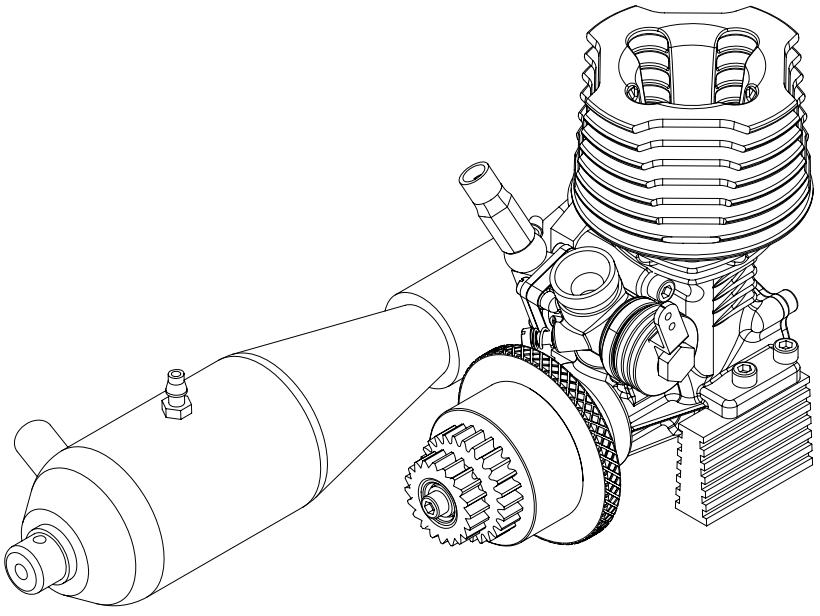


Servo saver
Servo-saver
Servo-Saver
Sauve-servo

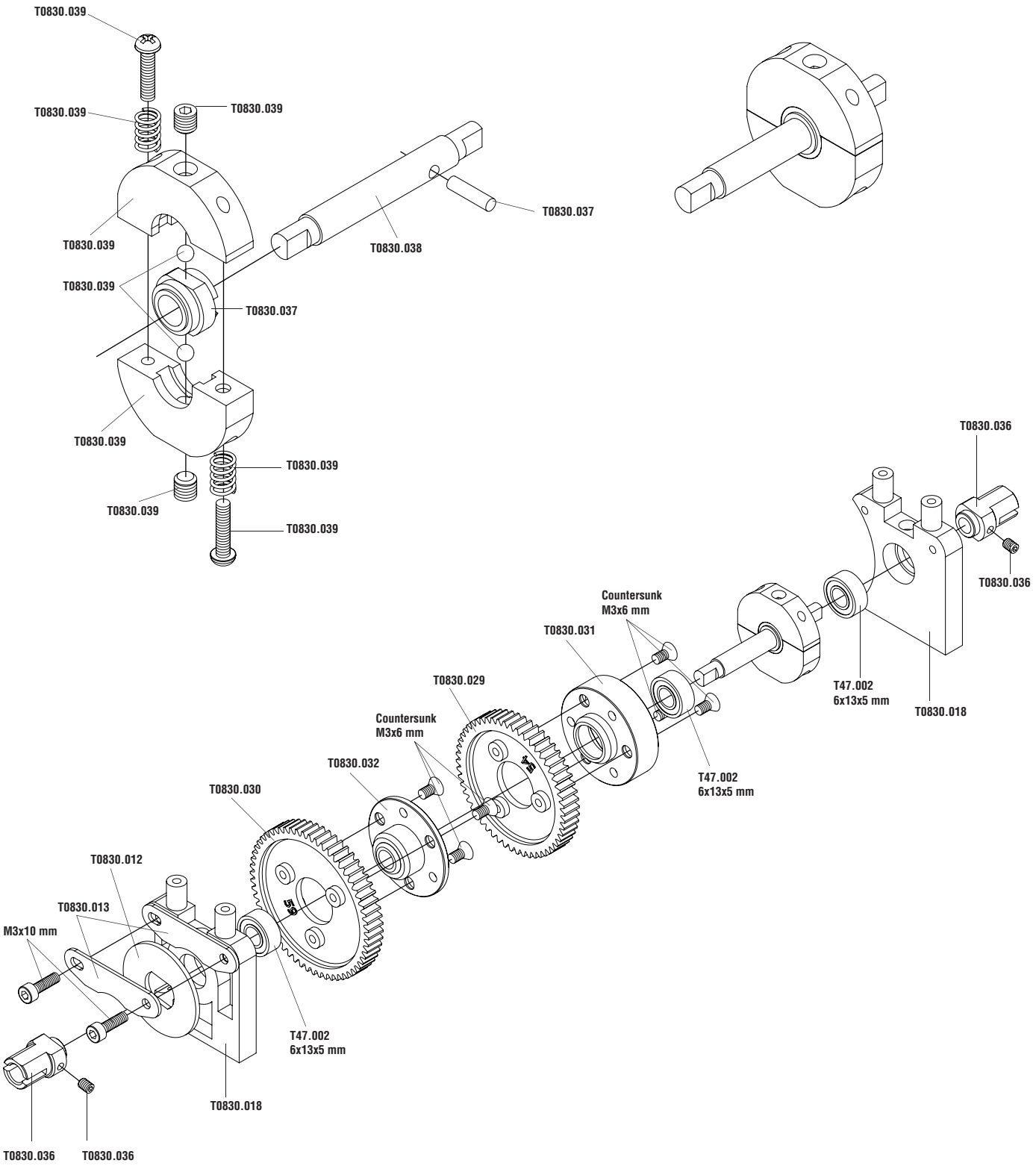


Mounting the engine and the clutch / Monteren van de motor en de koppeling
Montierung des Motors und der Kupplung/ Montage du moteur et de l'embrayage

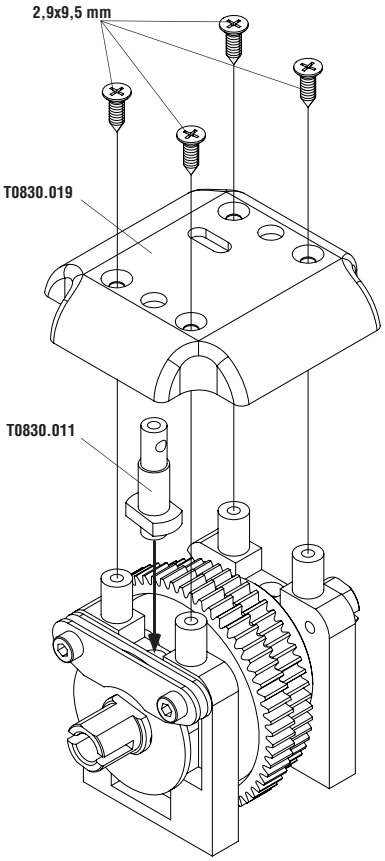


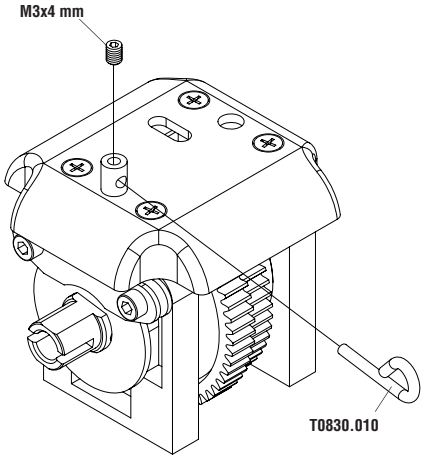


Assembly of the 2-speed gearbox / Montage van de 2 versnellingsbak
Montierung des 2-Gang Getriebes / Assemblage de la boîte à 2 vitesses

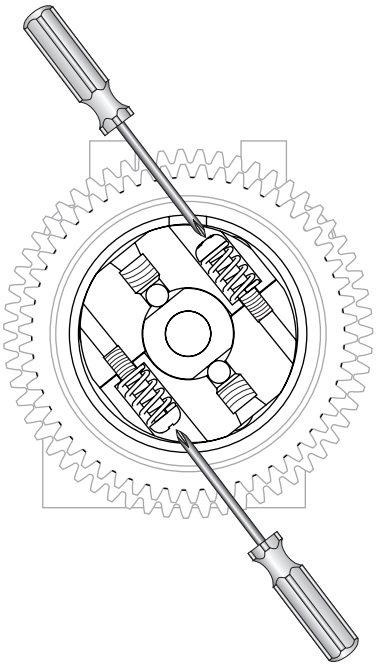


Assembly of the 2-speed gearbox / Montage van de 2 versnellingsbak
Montierung des 2-Gang Getriebes / Assemblage de la boîte à 2 vitesses



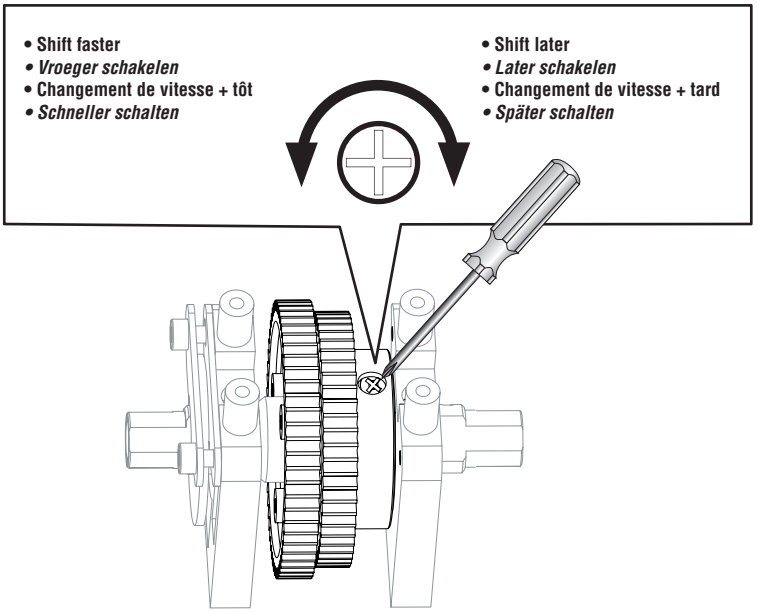


- **Adjust screws equally**
- ***Regel de twee vijzen op dezelfde manier***
- **Vissez de façon égale les 2 vis**
- ***Justieren Sie die Schrauben gleichmässig***

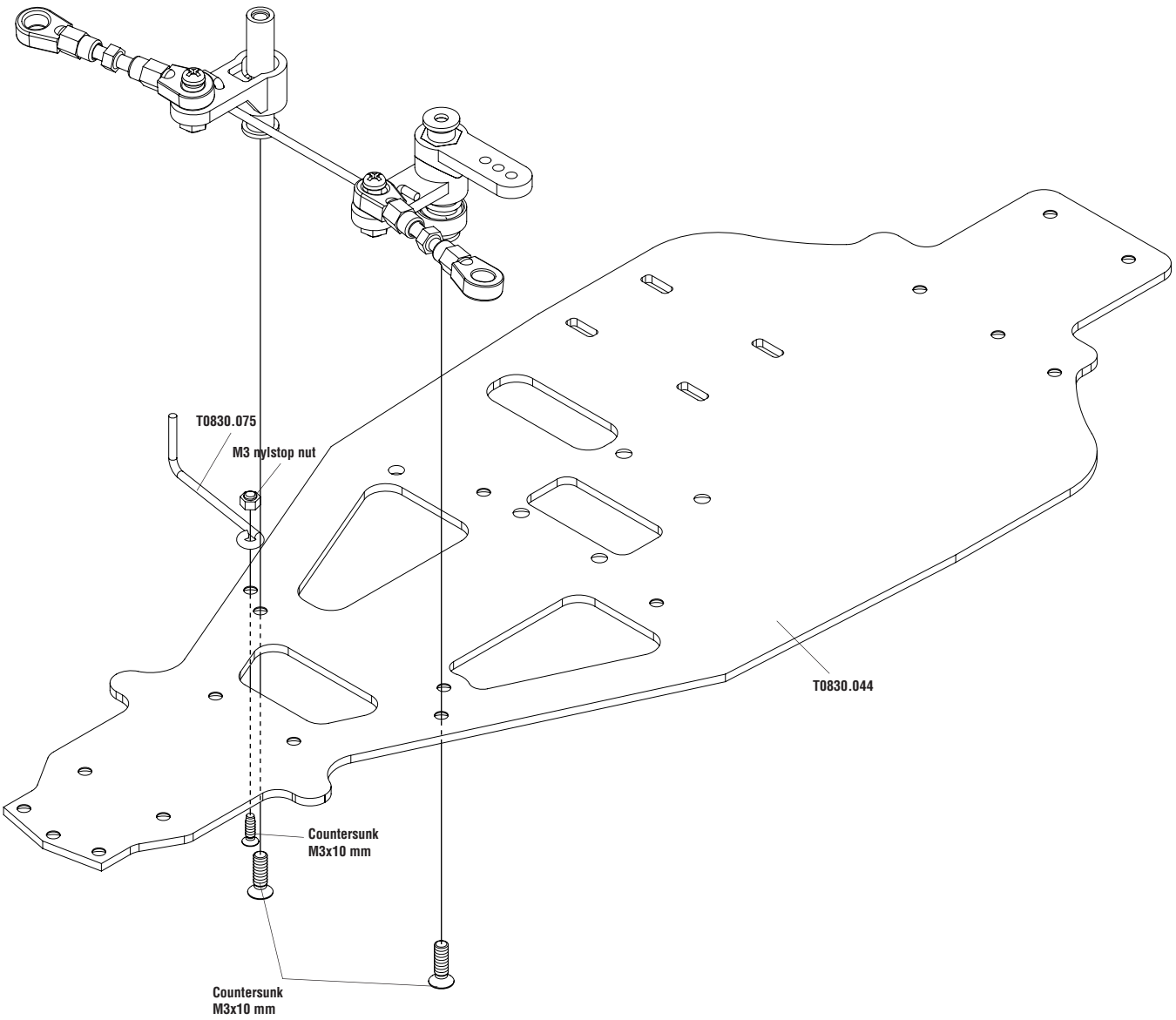


- **Shift faster**
- ***Vroeger schakelen***
- **Changement de vitesse + tôt**
- ***Schneller schalten***

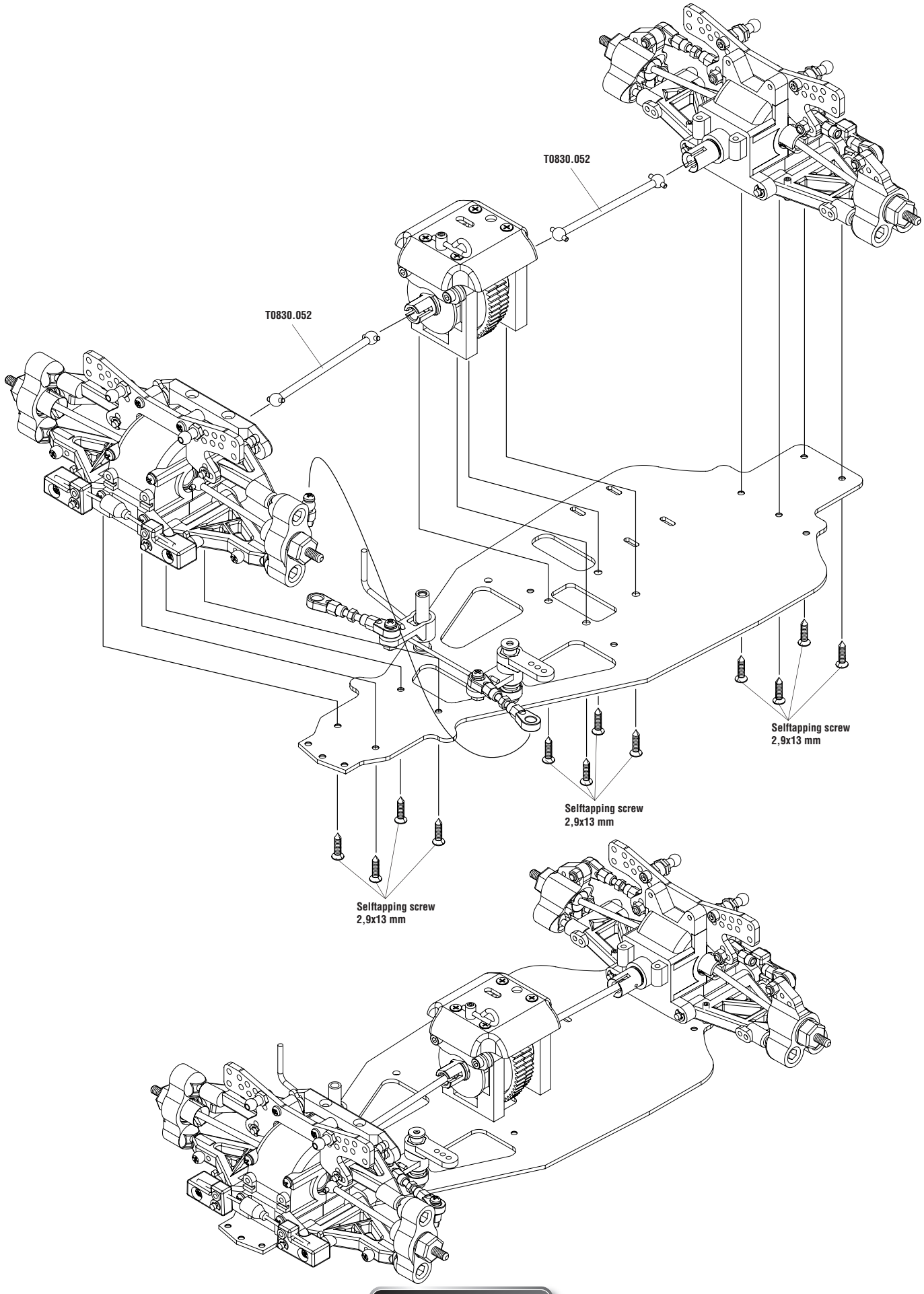
- **Shift later**
- ***Later schakelen***
- **Changement de vitesse + tard**
- ***Später schalten***



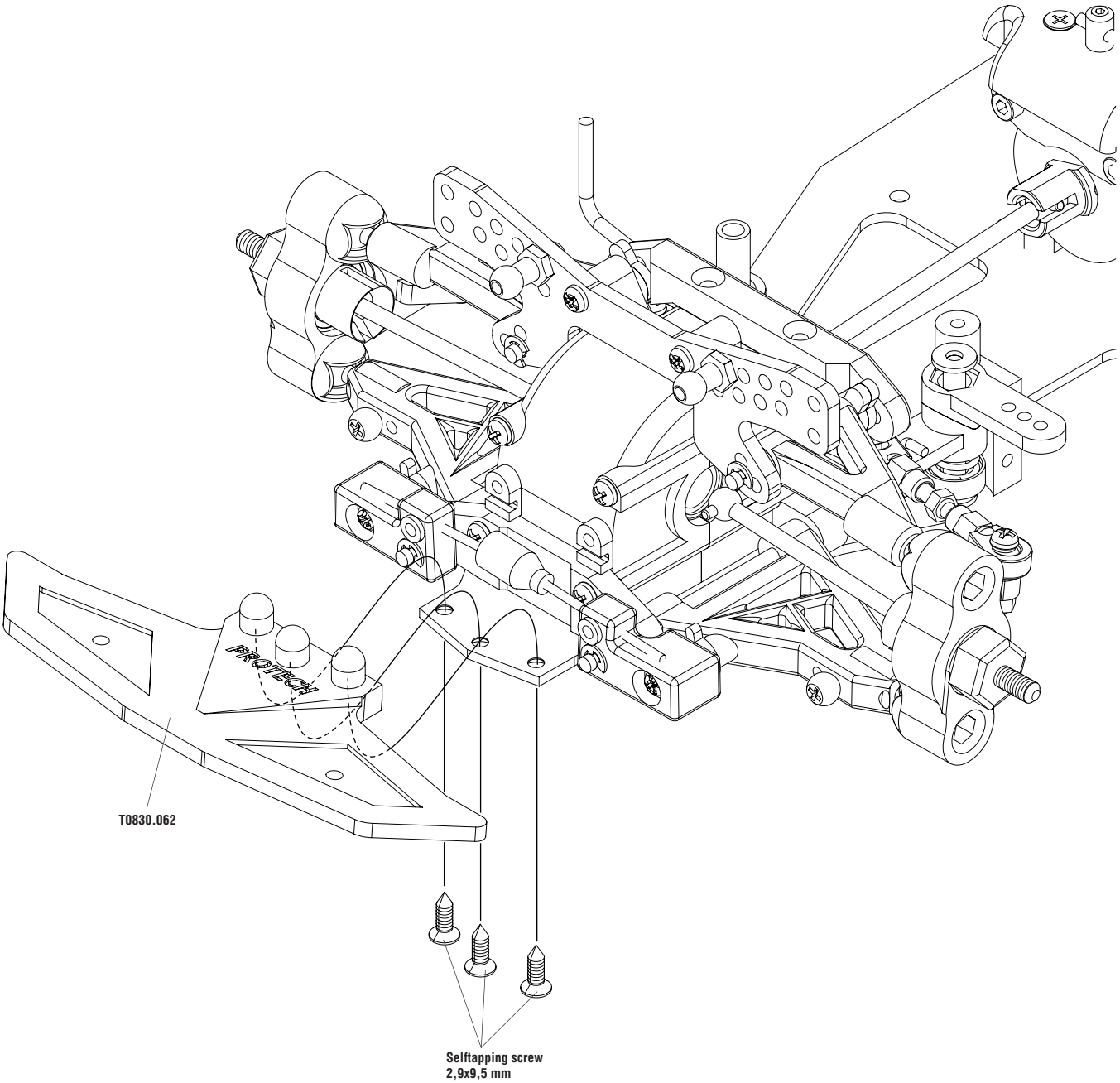
Mounting the servo-saver / Monteren van de servo-saver
Montierung des Servo-Savers / Montage du sauve-servo



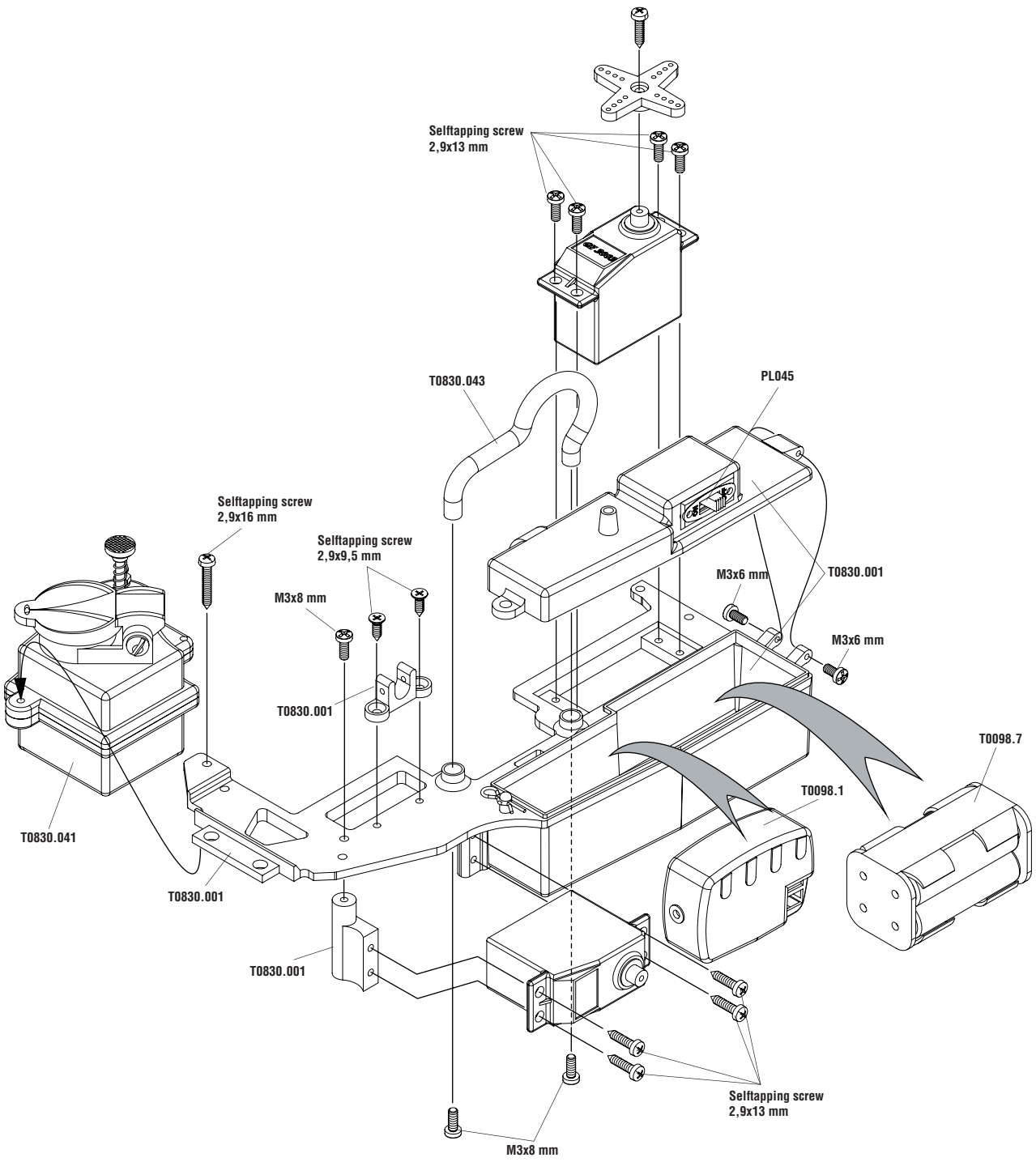
Fixing the drive components / Monteren van de aandrijving
Montierung des Antriebs / Montage des trains AV&AR



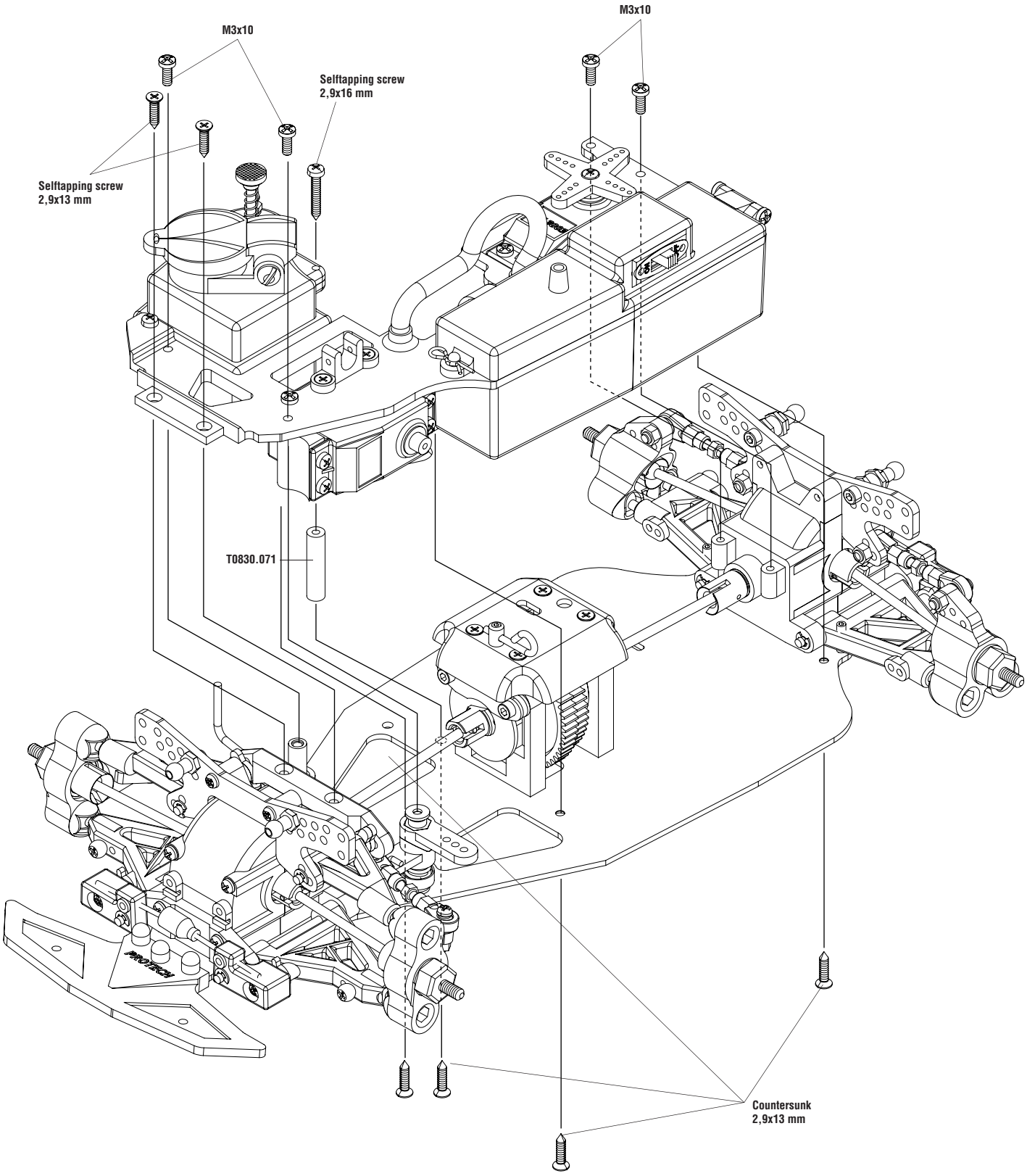
Mounting the front bumper / Montage van de voorste bumper
Montierung des Frontrammers / Montage du pare-chocs avant



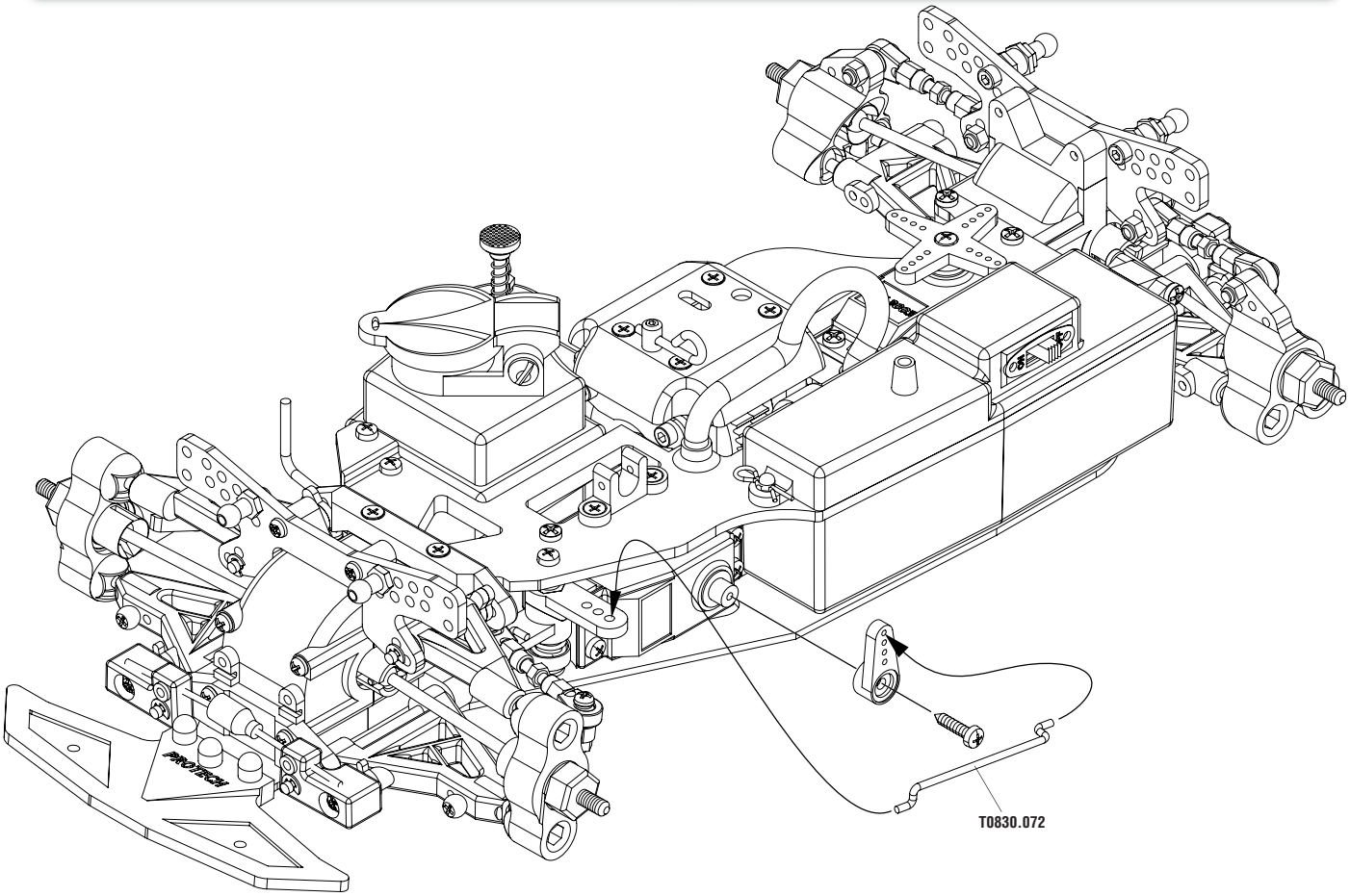
Assembly of the radio plate / Montage van de radioplaat
Montierung des Radio Platine / Assemblage de la platine radio



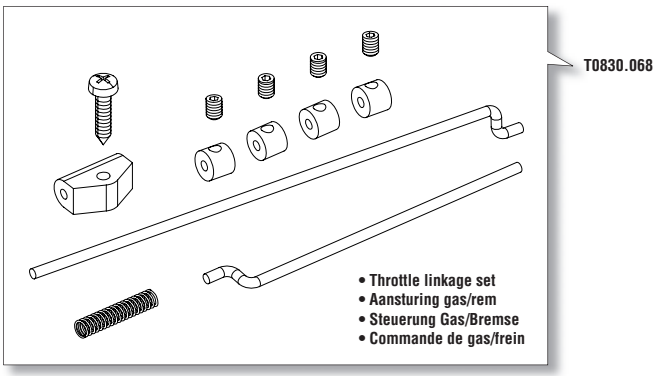
Mounting the radio plate / Monteren van de radioplaat
Montierung des Radio Platine / Montage de la platine radio

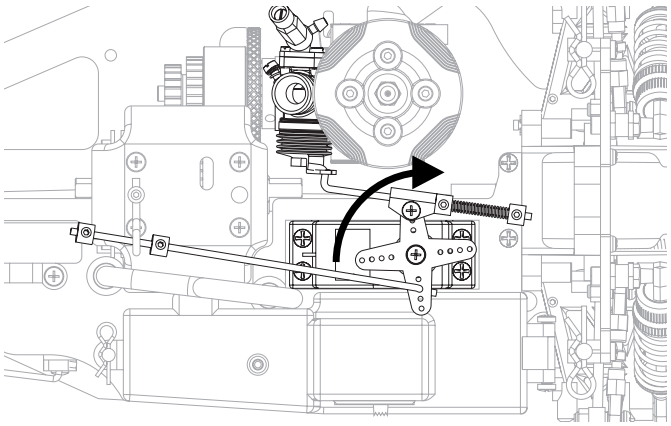


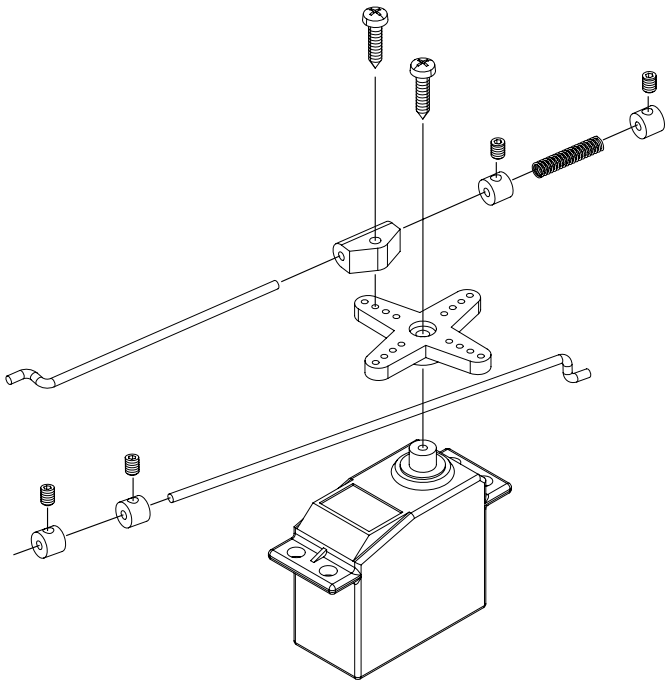
Mounting the control rods / Monteren van de stuurstangen
Montierung der Gestänge / Montage des commandes



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

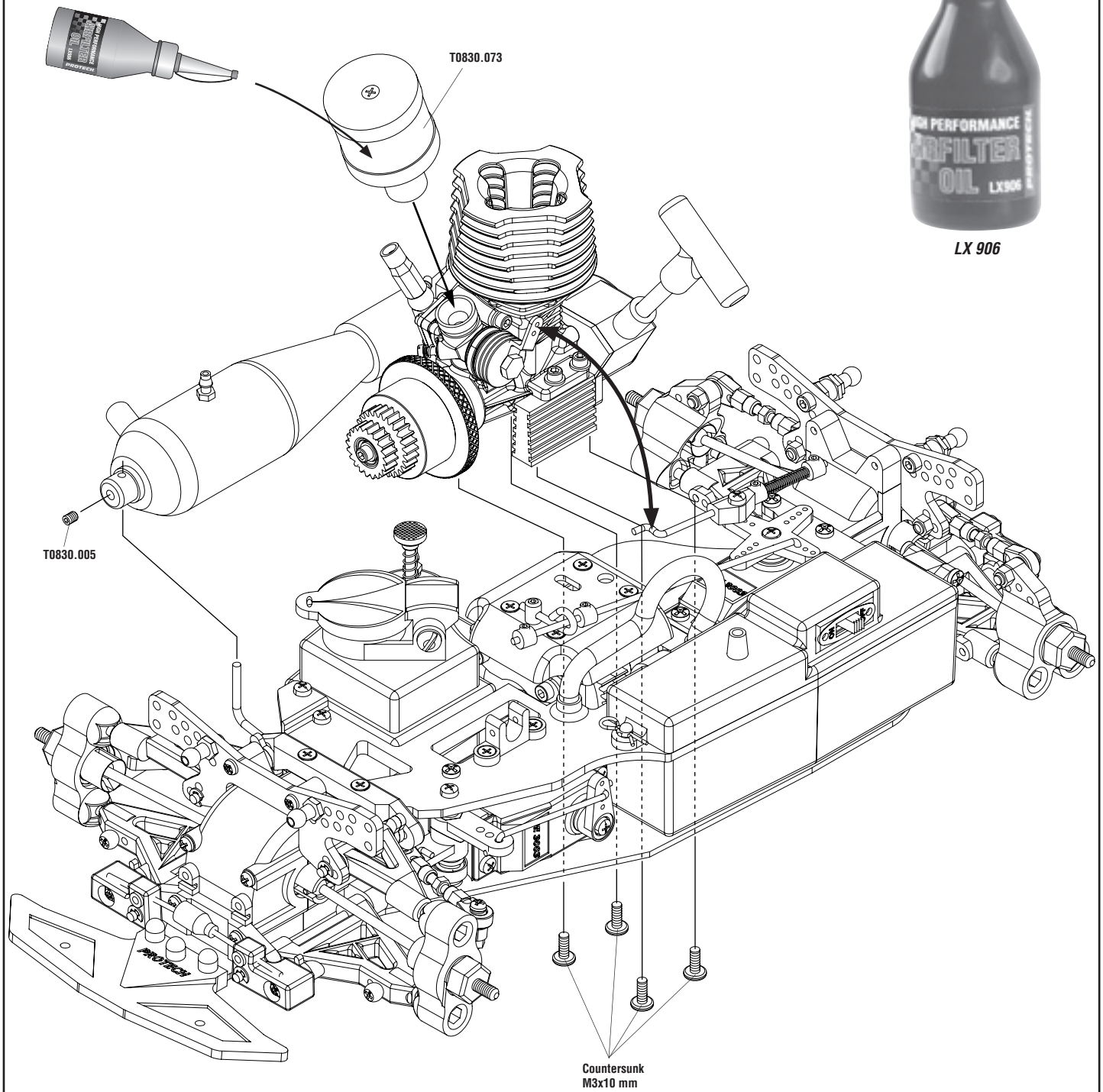
Use special air-filter oil (Use LX 906) on the inner sponge filter (not on the outer filter) to stop dust from getting into the engine.

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

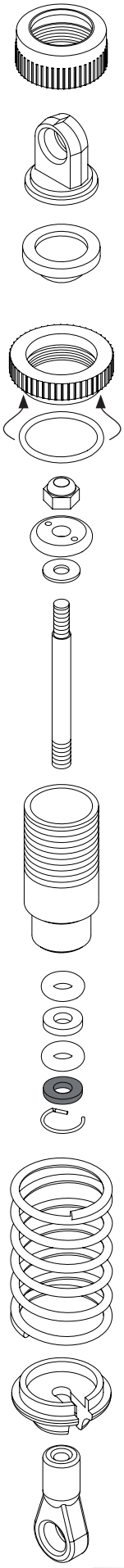
Verwenden Sie spezielle Luftfilteröl (LX906) auf das Schaumstoff damit Sie vermeiden das Schmutz und Staub im Motor eindringen.

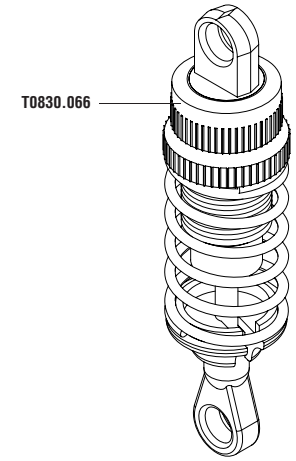
Utilisez toujours de l'huile spéciale pour filtre à air (LX906) pour empêcher la poussière d'entrer dans le moteur.

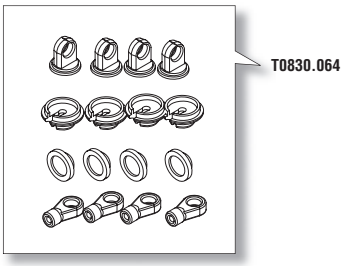
LX 906

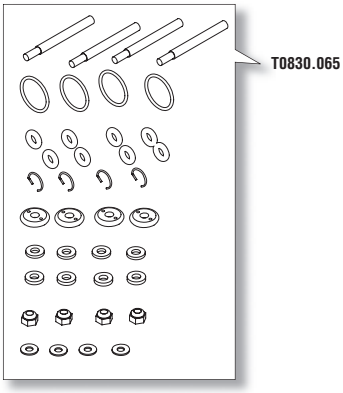


Assembling the shock absorbers / Assemblage van de schokdempers
Zusammenstellen des Stoßdämpfers / Assemblage des amortisseurs

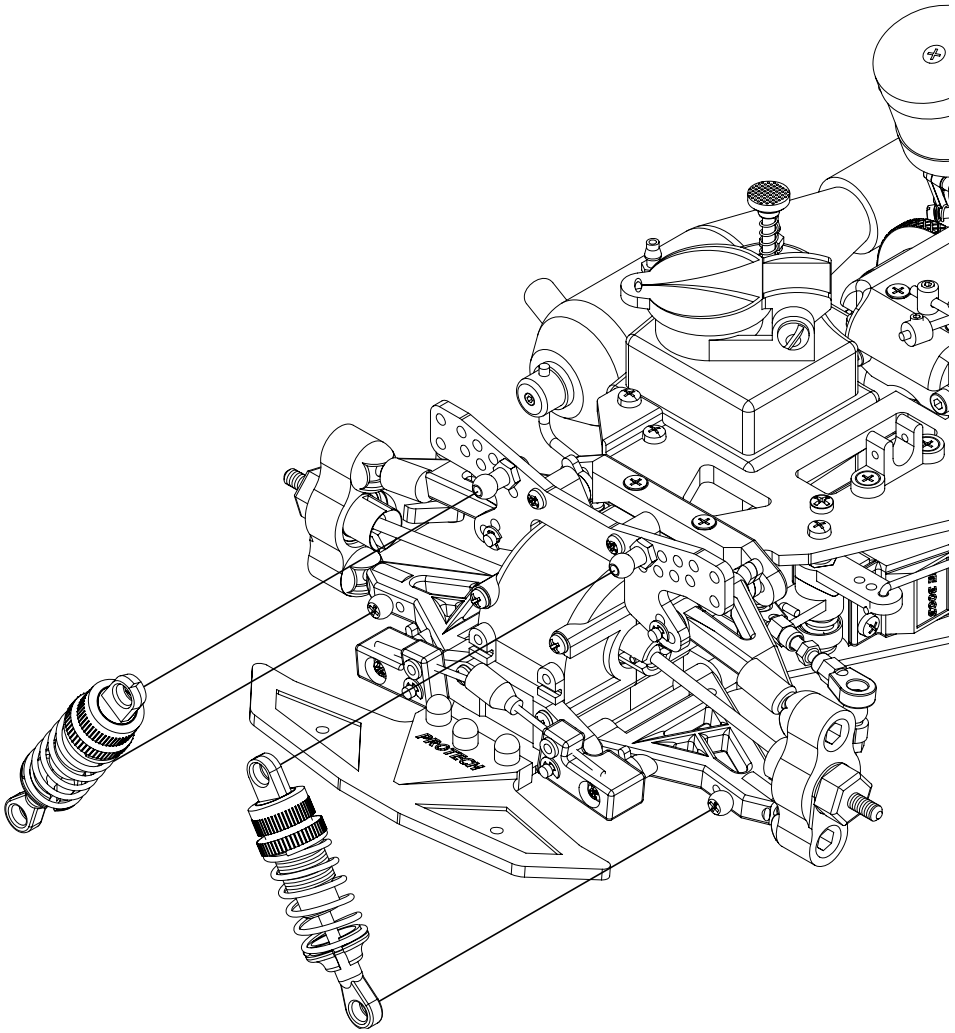


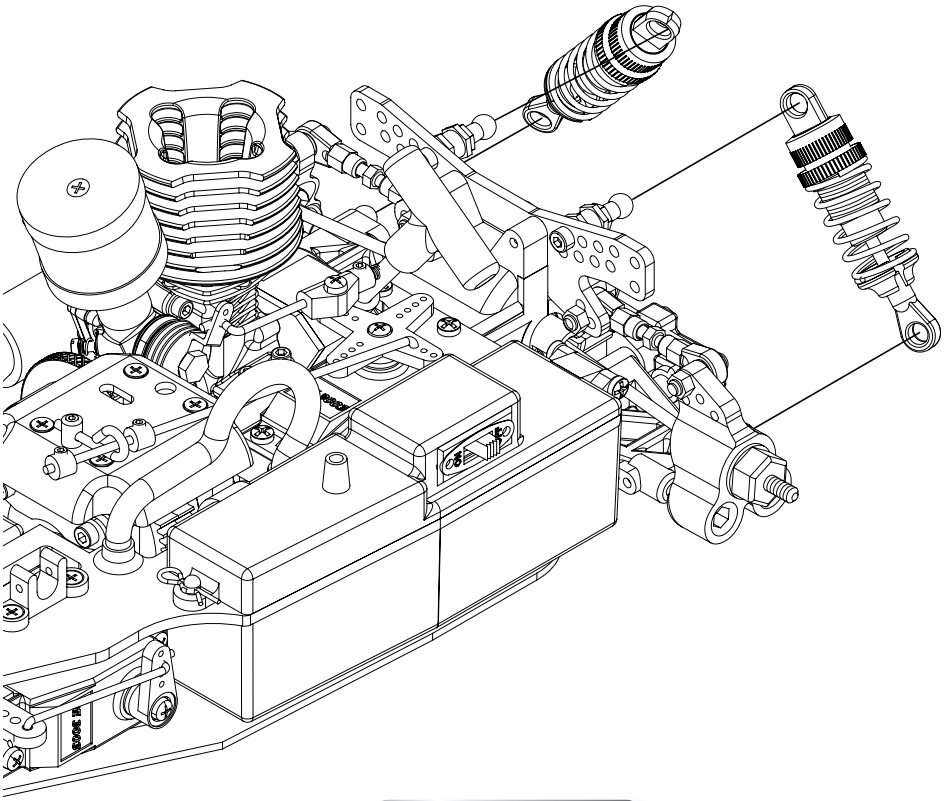




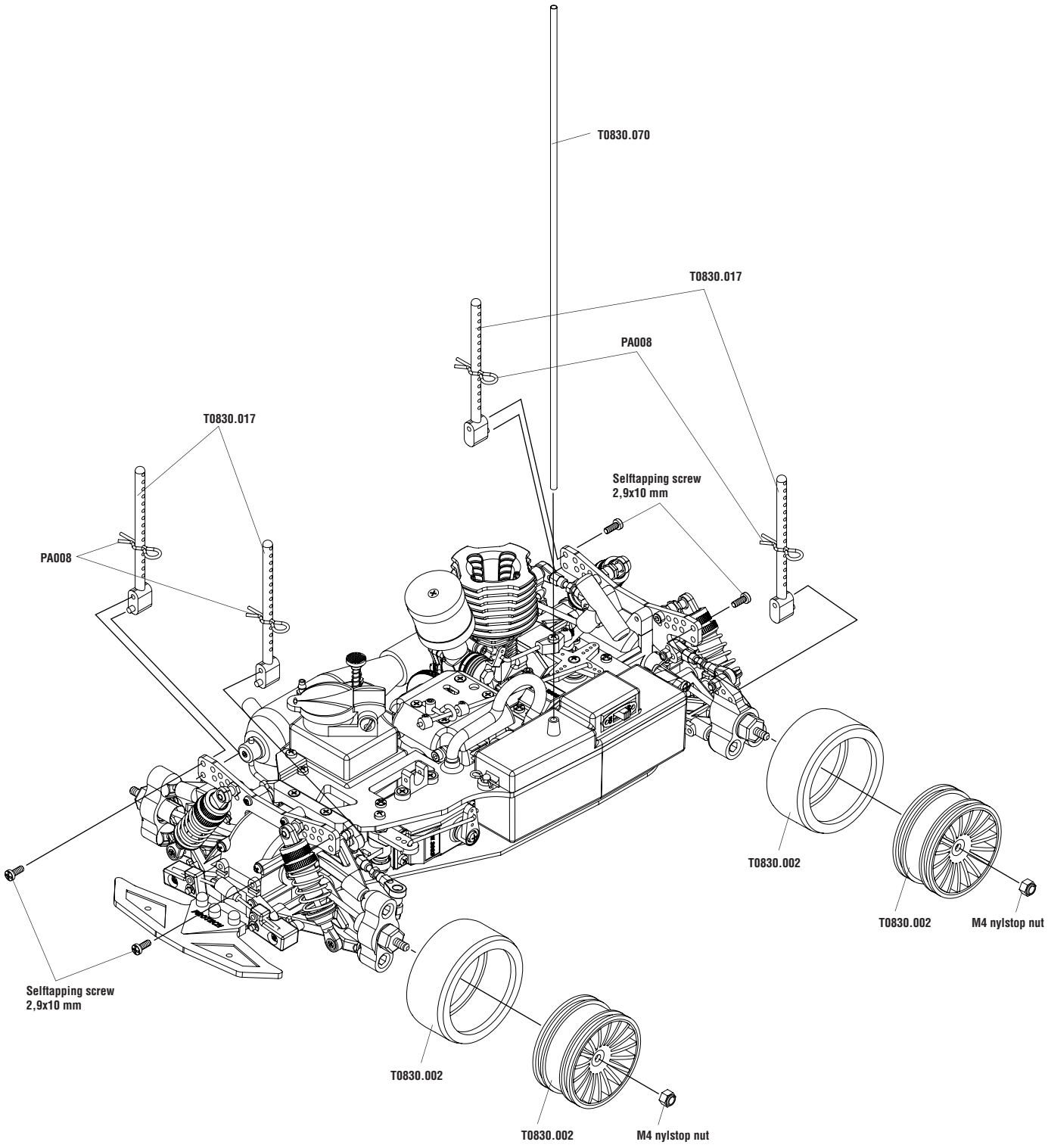


Mounting the shock absorbers / Monteren van de schokdempers
Montierung des Stoßdämpfers / Installation des amortisseurs





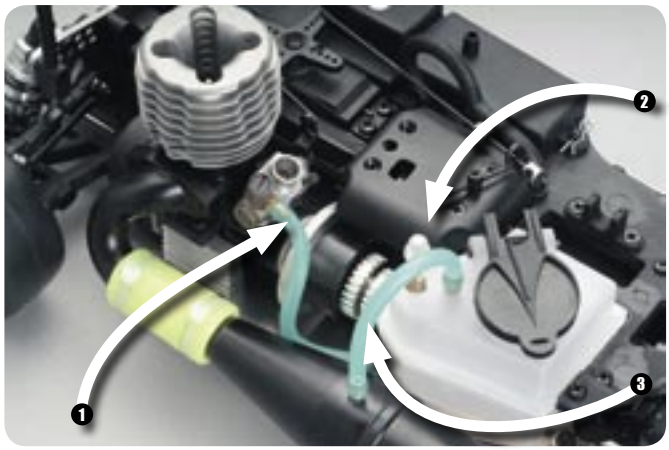
Mounting body posts and tires / Monteren van carrosseriesteunen en wielen
Montierung der Karosseriestütze und der Reife / Montage des supports carrosserie et des roues



- **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***



❶
- Fuel line
- *Brandstoftoevoer*
- Kraftstoffschlauch
- *Arrivée du carburant*

❷
- Primer button
- *Brandstoftoevoerpomp*
- Pumpe
- *Pompe d'amorçage*

❸
- Pressurising the tank
- *Druktoevoer voor de tank*
- Unter Druck setzen des Tanks
- *Pressurisation du réservoir*

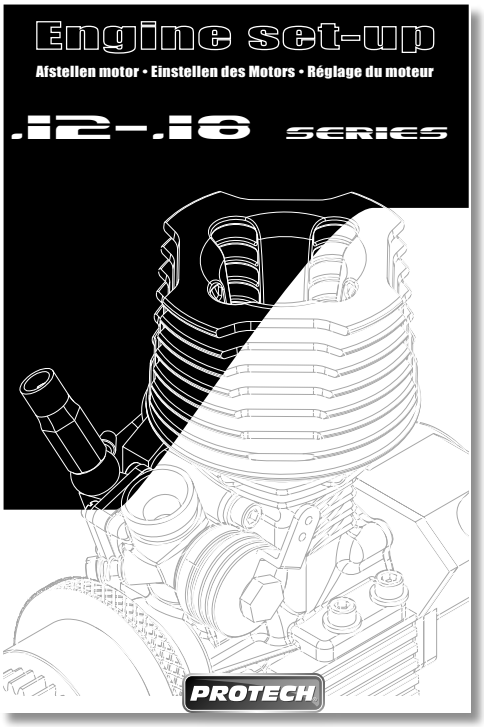
- **CARBURATOR SETTINGS**
- ***INSTELLINGEN VAN DE CARBURATOR***
- **EINSTELLUNG DES VERGASERS**
- ***RÉGLAGE DU CARBURATEUR***

❹
- 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)*

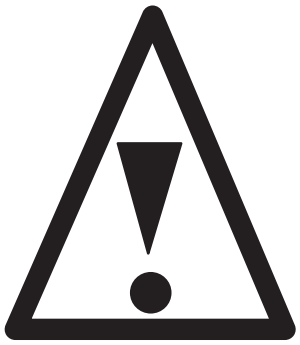
❺
- Idle adjustment screw (carburator is ±1mm open)
- *Stelschroef voor stationair draaien (carburator staat ±1mm open)*
- Leerlaufdrehzahlschraube (Vergaser ± 1mm offen)
- *Vis de réglage du ralenti (carburateur ouvert de ±1mm)*

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



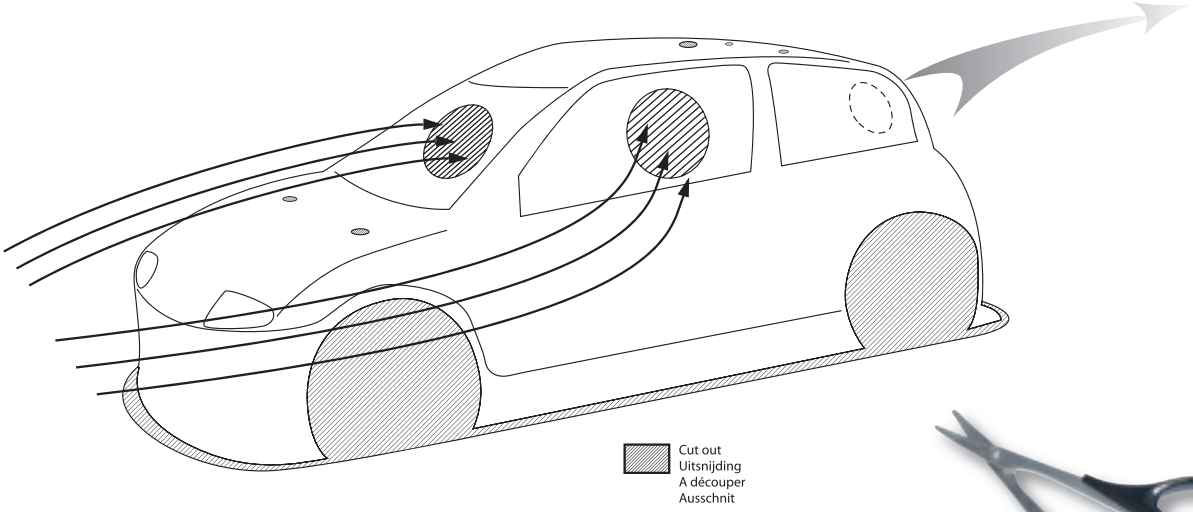
VERY IMPORTANT — **Do not forget to cut out the holes in the body to cool down the engine.**

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 achterruit*
- 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 plastiek*
- PROTECH Ciseau incurvés particulièrement conçu pour couper les matères 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

T0833.1
BMW M3
Chassis + Body

T0838.1
Subaru Impreza WRC
Chassis + Body

T0831.1
Renault Clio V6
Chassis + Body

T0726.*
Porsche 911
Pre-painted & trimmed body + decals

T0706.200
Porsche 911
Transparant body + decals

T0723.*
BMW M3
Pre-painted & trimmed body + decals

T0713.200
BMW M3
Transparant body + decals

T0728.*
Subaru Impreza WRC
Pre-painted & trimmed body + decals

T0708.200
Subaru Impreza WRC
Transparant body + decals

T0721.*
Renault Clio V6
Pre-painted & trimmed body + decals

T0701.200
Renault Clio V6
Transparant body + decals

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

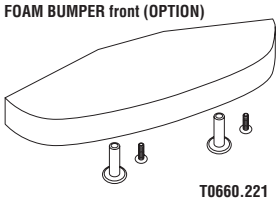
CARBON center diff. plate (OPTION)

T0830.219

CARBON FR of RE shock stay (OPTION)

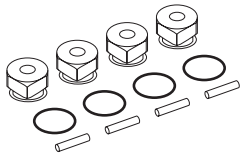
T0830.222

FOAM BUMPER front (OPTION)



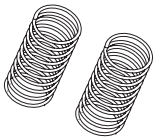
T0660.221

ALUMINIUM WHEELHEX w/ O-ring (OPTION)



T0660.250

SHOCK SPRING gray 1.8mm (OPTION)

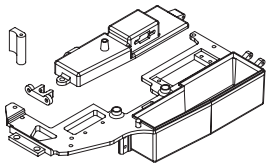


T47.149

SHOCK SPRING yellow 1.9mm (OPTION)

T47.151

T0830.001



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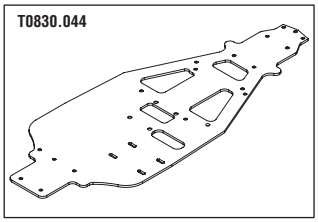

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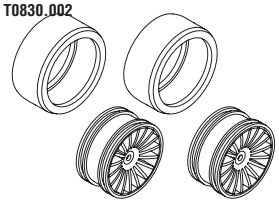

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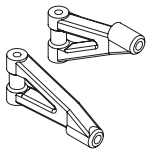

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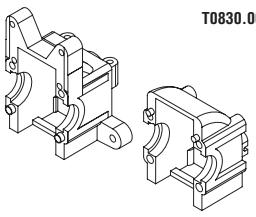

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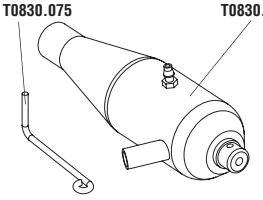
T0830.005



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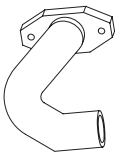

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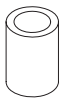

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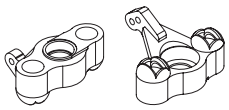

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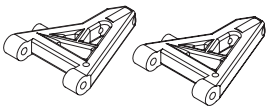

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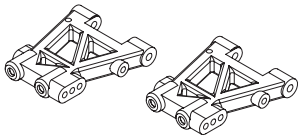

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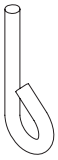

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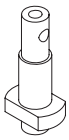

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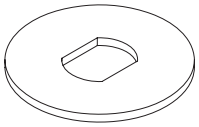

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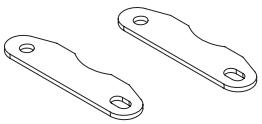

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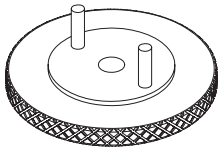

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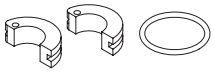

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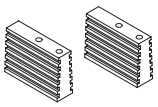

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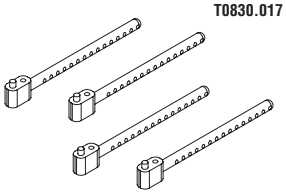

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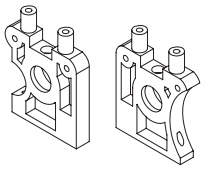

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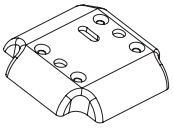

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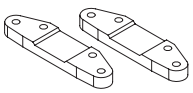

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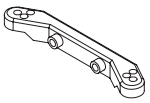

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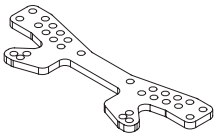

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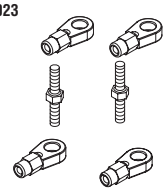
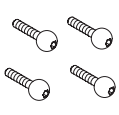


T0830.024

T0830.025



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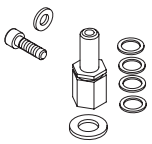
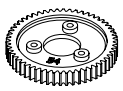


T0830.027

T0830.028

T0830.029



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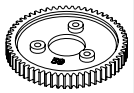
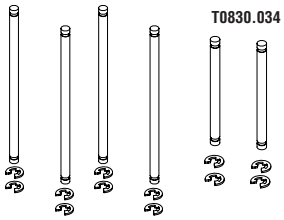


T0830.031

T0830.032

T0830.034



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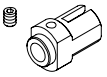

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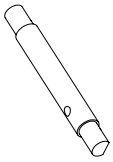
T0830.036



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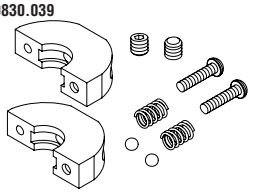

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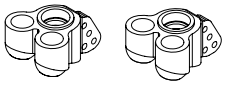

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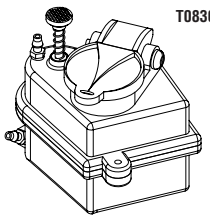

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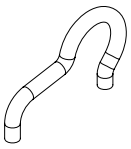

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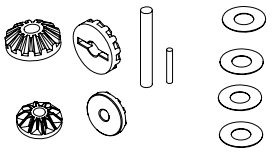

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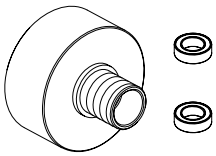

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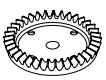
T0830.049



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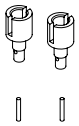

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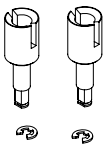

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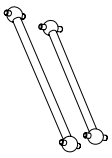

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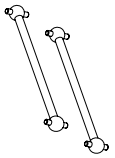

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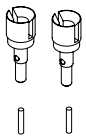

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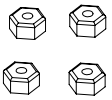

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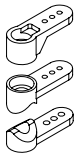

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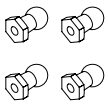

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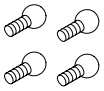

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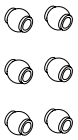

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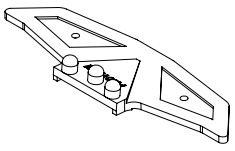
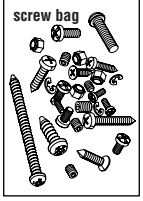


T0830.069

screw bag



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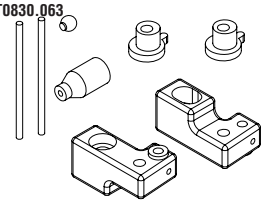

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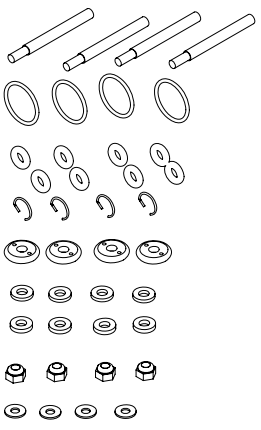

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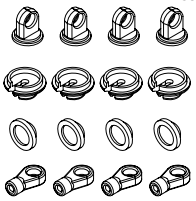

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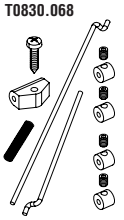
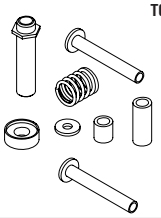


T0830.071

T0830.066

T0830.067



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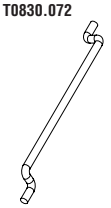

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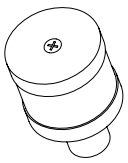
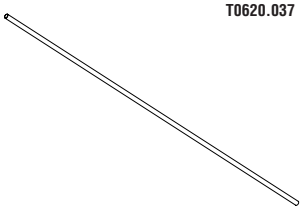
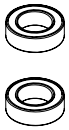


T0620.037



T58.023



10x15x4 mm

T0600.062

5x10x4 mm

T58.022

5x11x4 mm

T60.071

4x8x3 mm

T58.043

5x8x2,5 mm

T47.002

6x13x5 mm

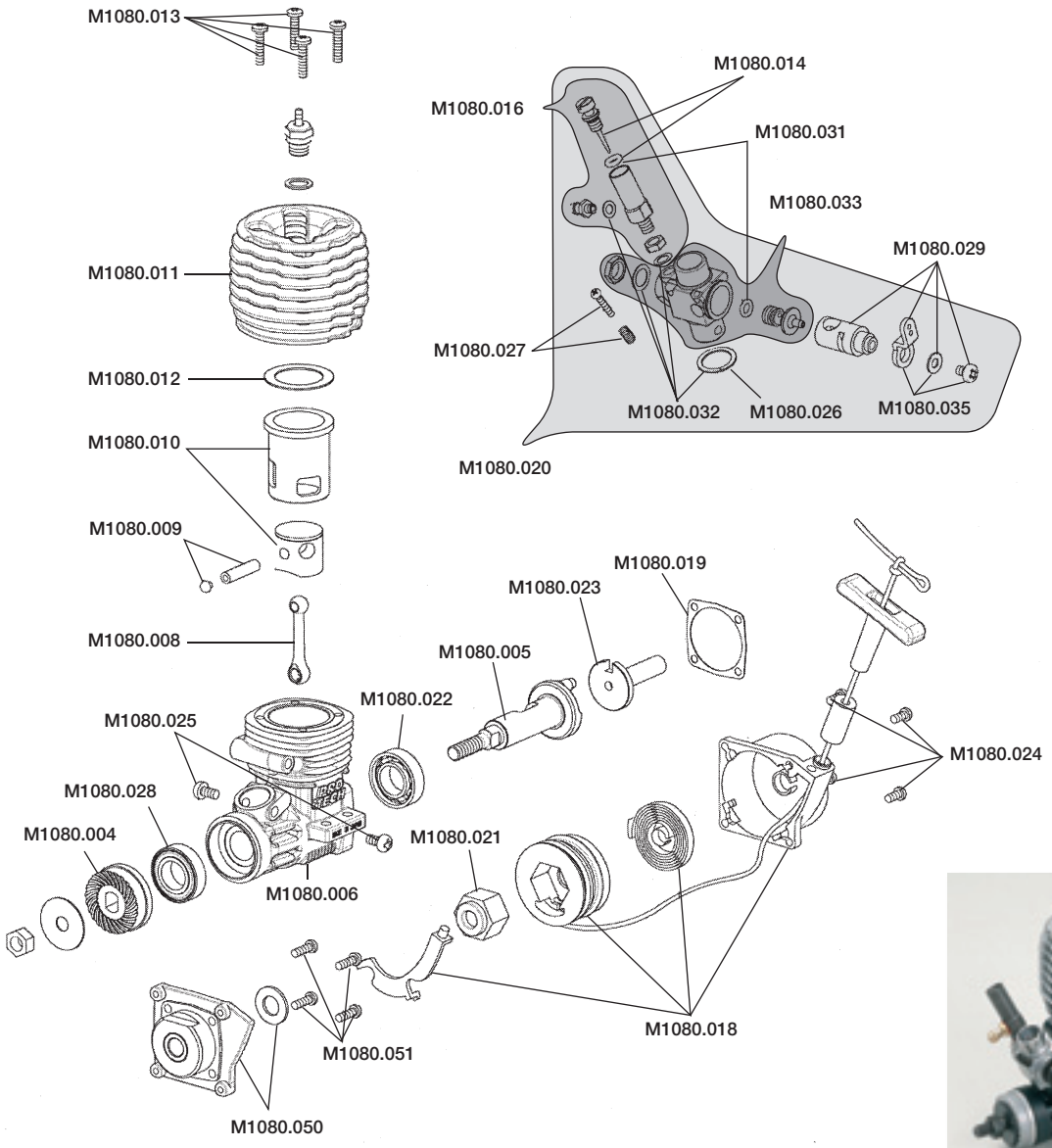
Spare parts list / Onderdelen
Benötigtes / Pièces détachées

T0830.001	• Radio plate and receiver box • Radioplaat en ontvangerdoos • Platine radioavec boîtier récepteur • RC Platine und Empfängerbox
T0830.002	• Tires + Rims • Banden + Velgen • Pneus + Jantes • Räder + Felgen
T0830.003	• Front upper arm • Voorste ophangingsarm boven • Bras de suspension avant sup. • Querlenker vorne oben
T0830.004	• Gear box • Versnellingsbak • Carter de réducteur • Getriebe Gehause
T0830.005	• Exhaust • Uitlaat • Résonateur • Rezonanzrohr
T0830.006	• Manifold • Uitlaatbocht • Echappement • Auspuffkrümmer
T0830.007	• Front steering knucle • Voorste stuurblok • Fusée de direction • Achsschenkel vorne
T0830.008	• Front lower arm • Voorste ophangingsarm onder • Bras de suspension avant inf. • Querlenker vorne unten
T0830.009	• Rear arm • Achterste ophangingsarm • Bras de suspension arrière • Querlenker hinten
T0830.010	• Brake lever • Rem-arm • Levier de frein • Bremshebel
T0830.011	• Brake cam • Remexcenter • Came de frein • Bremsexzenter
T0830.012	• Brake disc • Remschijf • Disque de frein • Bremsscheibe
T0830.013	• Brake pad • Remschoen • Plaquettes de frein • Bremsbacken
T0830.014	• Flywheel • Vliegwiel • Volant moteur • Schwungscheibe
T0830.015	• Clutch shoe and spring • Koppeling en veer • Masselottes et ressort • Kupplung und Feder
T0830.016	• Engine mount • Motorsteun • Supports moteur • Motorbock
T0830.017	• Body posts • Carrosseriesteunen • Supports de carrosserie • Karosseriestütze
T0830.018	• Center differential supports • Hoofdtandwielsteunen • Supports de différentiel central • Hauptzahrradstütze
T0830.019	• Center differential plate • Verbindingsplaat differentieel • Platine de différentiel • Mittlere Verstärkungsplatte
T0830.020	• Suspension arm holder • Ophangingsarm houder • Support de bras de suspension • Lagerböcke für Querlenker
T0830.021	• Front suspension arm holder • Voorste ophangingsarm houder • Support de bras de susp. avant • Lagerböcke für Querlenker vorne
T0830.022	• Shock stay • Schokdempersteun • Support d'amortisseurs • Stoßdämpferplatine
T0830.023	• Upper turnbuckle arm • Regelbare ophangingsarm boven • Bras de susp. sup. règlables • Querlenkerachse vorne
T0830.024	• Alu. hex nut and pivot ball washer • Alu. hex. moer en kogel rondel • Vis hex. en alu et rondelles • Alu. Hex. Mutter und Unterlegscheibe
T0830.025	• Pivot ball • Kogelschroef • Rotule • Kugelschraube
T0830.026	• Pilot shaft • Koppelingsas • Axe de cloche • Kupplungsachse
T0830.027	• Pinion 26T • Tandwiel 26T • Couronne 26D • Zahnrad 26Z
T0830.028	• Pinion 20T • Tandwiel 20T • Couronne 20D • Zahnrad 20Z
T0830.029	• Spur gear 54T • Hoofdtandwiel 54T • Couronne principale 54D • Hauptzahnrad 54Z
T0830.030	• Spur gear 59T • Hoofdtandwiel 59T • Couronne principale 59D • Hauptzahnrad 59Z
T0830.031	• Spur gear (54T) flange • Tandwielmeenemer (54T) • Support de couronne (54T) • Zahnradmitnehmer (54Z)
T0830.032	• Spur gear (59T) flange • Tandwielmeenemer (59T) • Support de couronne (59T) • Zahnradmitnehmer (59Z)
T0830.034	• Drive train shaft • As voor ophangingsarm • Axe de triangle • Querlenker-Achse
T0830.036	• Cap joint • Aandrijfhuls • Noix de cardan • Antriebsgelenk
T0830.037	• Clutch driver • Koppeling aandrijver • Coupleur • Antrieb Kupplung
T0830.038	• Clutch drive shaft • Aandrijfas voor de koppeling • Axe de cloche • Kupplungs Antriebsachse
T0830.039	• Clutch shoes • Kopplingschoenen • Masselottes • Kupplungsbacken
T0830.040	• Rear hubs • Achterste stuurblokken • Fusée AR • Hintere Achsschenkel

Spare parts list / Onderdelen
Benötigtes / Pièces détachées

T0830.041	• Fuel tank • Brandstoftank • Réservoir • Kraftstofftank
T0830.043	• Radio plate handle • Radioplaat handvat • Poignée • Bugel für die RC-Platte
T0830.044	• Chassis • Chassis • Châssis • Chassis
T0830.045	• Clutch bell • Koppelingsklok • Cloche d'embrayage • Kupplungsglocke
T0830.046	• Differential bevel gears • Differentieeltandwielen • Pignons de différentiel • Kegelzahnräder für Differential
T0830.047	• Cap joint • Aandrijfhuls • Noix de cardan • Antriebsgelenk
T0830.048	• Differential case • Differentieel behuizing • Carter de différentiel • Differential Gehause
T0830.049	• Bevel gear 38T • Differentieeltandwiel 34T • Couronne de différentiel 34D • Differentialzahnrad 34Z
T0830.050	• Bevel gear 11T • Differentieeltandwiel 11T • Couronne de différentiel 11D • Differentialzahnrad 11Z
T0830.051	• Cap joint • Aandrijfhuls • Noix de cardan • Antriebsgelenk
T0830.052	• Center drive shaft • Aandrijfas centraal • Cardan central • Antriebswelle Zentral
T0830.053	• Drive shaft front and rear • Aandrijfas voor en achter • Cardans avant et arrière • Antriebswelle vorne und hinten
T0830.054	• Cap joint • Aandrijfhuls • Noix de cardan • Antriebsgelenk
T0830.055	• Wheel hub • Aandrijfhexagoon • Hexagone de roue • Radnabe
T0830.056	• Servo saver slide bar • Servo saver verbindingsstang • Liaison sauve-servo • Verbindungsgestange Servo-Saver
T0830.057	• Servo saver arms • Servo saver armen • Bras de sauve-servo • Servo-Saver Hebel
T0830.058	• Pivot ball • Kogel • Rotule • Kugel
T0830.059	• Ball joint • Kogel • Rotule • Kugel
T0830.060	• Ball • Kogel • Rotule • Kugel
T0830.061	• Spacer • Afstelplaatje • Entretoises • Distanzbuchse
T0830.062	• Front bumper • Voorste bumper • Pare-chocs AV • Frontrammer
T0830.063	• Stabilizer • Stabilisator • Stabilisateur • Stabilisator
T0830.064	• Shock repair kit • Schokdemper herstel kit • Kit de réperation d'amortisseurs • Stoßdampfer Herstellungsset
T830.065	• Shock repair kit • Schokdemper herstel kit • Kit de réparation d'amortisseurs • Stoßdampfer Herstellungsset
T0830.066	• Shock absorber • Schokdemper • Amortisseurs • Stoßdampfer
T0830.067	• Servo saver posts • Servo saver steun • Supports de sauve-servo • Servo-Saver Stutze
T0830.068	• Throttle linkage set • Stuurstangset voor de aandrijving • Tringlerie de gas/frein • Gestange für den Gaz
T0830.069	• Screw bag • Schroeven set • Visserie • Schraubenset
T0620.037	• Antenna pipe • Antenne buis • Tube d'antenne • Antenneschlauch
T0830.071	• Fuel tank post • Brandstoftanksteun • Supports de réservoir • Kraftstofftank Stutz
T0830.072	• Steering link • Stuurstang • Commande de direction • Steuerungsgestange
T0830.073	• Air filter • Luchtfilter • Filtre à air • Luftfilter
T58.023	• Ball bearing 10x15x4 mm • Kogellager 10x15x4 mm • Roulement à billes 10x15x4 mm • Kugellager 10x15x4 mm
T0600.062	• Ball bearing 5x10x4 mm • Kogellager 5x10x4 mm • Roulement à billes 5x10x4 mm • Kugellager 5x10x4 mm
T58.022	• Ball bearing 5x11x4 mm • Kogellager 5x11x4 mm • Roulement à billes 5x11x4 mm • Kugellager 5x11x4 mm
T60.071	• Ball bearing 4x8x3 mm • Kogellager 4x8x3 mm • Roulement à billes 4x8x3 mm • Kugellager 4x8x3 mm
T58.043	• Ball bearing 5x8x2,5 mm • Kogellager 5x8x2,5 mm • Roulement à billes 5x8x2,5 mm • Kugellager 5x8x2,5 mm
T47.002	• Ball bearing 6x13x5 mm • Kogellager 6x13x5 mm • Roulement à billes 6x13x5 mm • Kugellager 6x13x5 mm

Engine spare parts RG-15 M1080



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	Person responsible for this declaration:
STEFAN ENGELEN	J.C.TSAI GEWISE Industrial Inc.
Name, Surname, Importer)	(Name, Surname, Manufacturer)
DIRECTOR	VICE PRESIDENT
(Position/Title)	(Position/Title)
(Legal Signature)	(Legal Signature)
BELGIUM – HERENTALS 08-05-2001	Taiwan, R.O.C. APR. 26. 2001
(Place) (Date)	(Place) (Date)

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

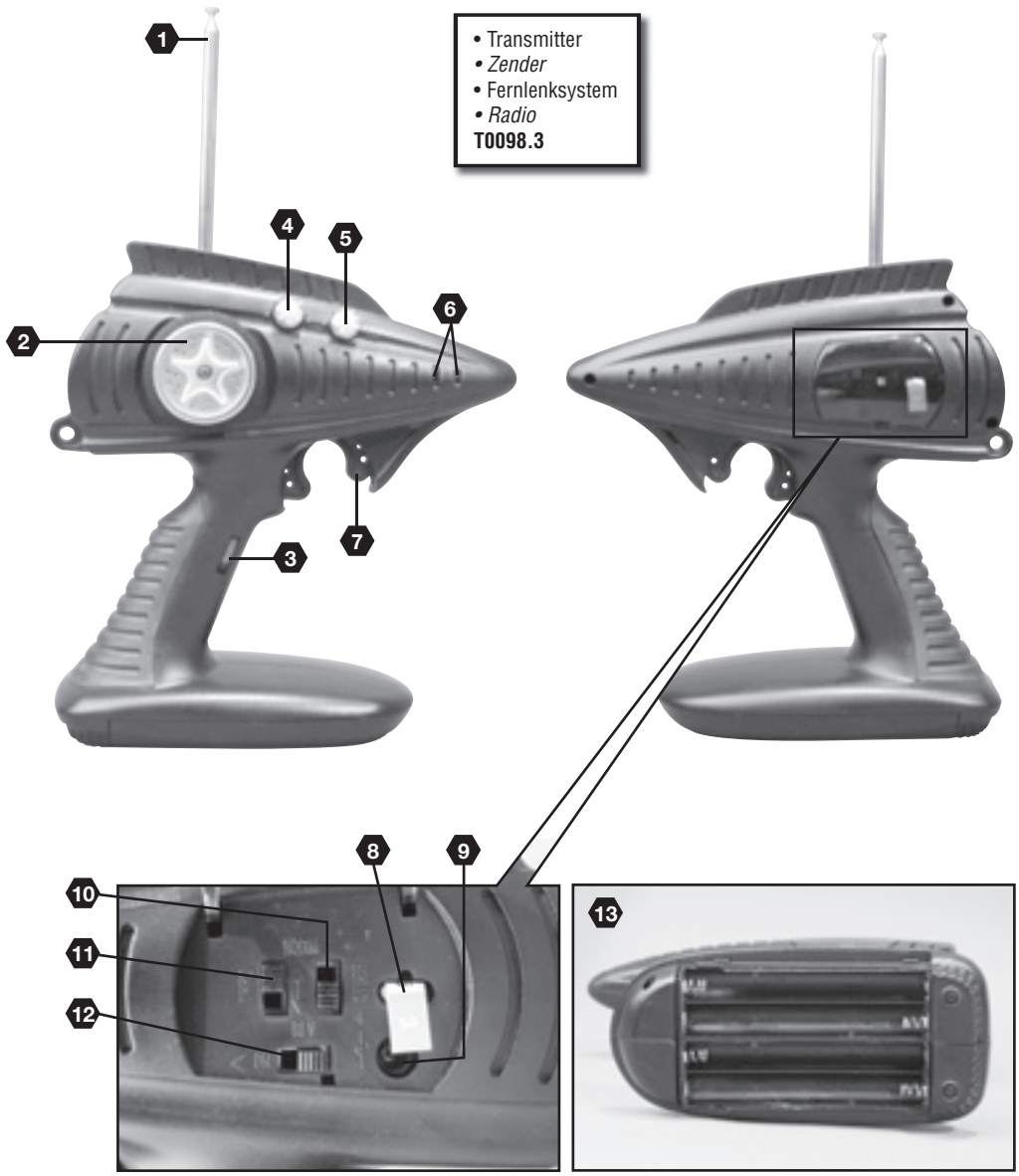
9 • Charge output
• *Laaduitgang*
• Lade-Ausgang
• *Sortie de charge*

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 Schälter
• *Interrupteur MARCHE-ARRET*

13 • Battery holder (8 pcs)
• *Batterijhouder (8 stuks)*
• Batteriehalterung (8 Stuck)
• *Compartiment pour piles (8 pcs)*

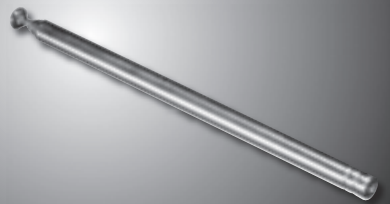


• Transmitter
• *Zender*
• Fernlenksystem
• *Radio*
T0098.3

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

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

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



2 CHANNEL PISTOL RADIO SPARE PARTS

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

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

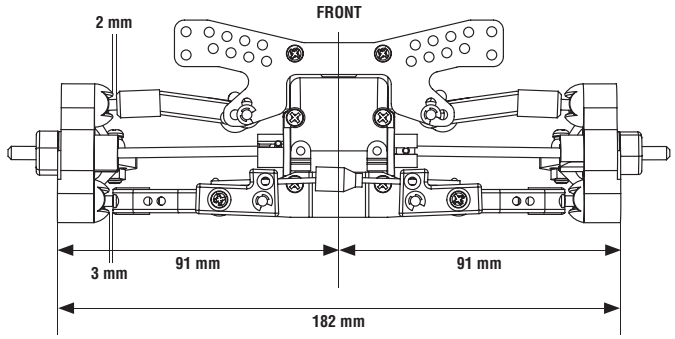
• Battery holder
• *Batterijhouder*
• Akku Halter
• *Support d'accu*
T0098.7

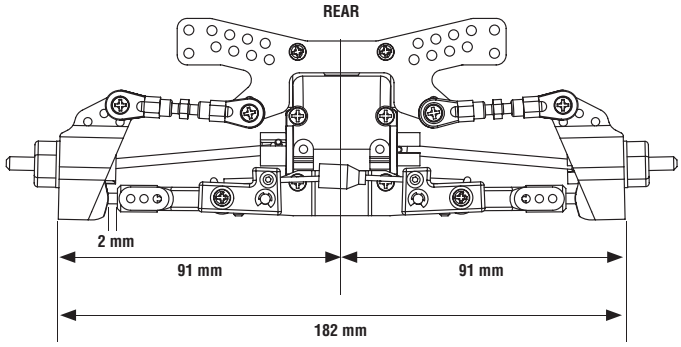
Frequenties / Frequency
Frequenz / Fréquences

Frequentie	**Kanaal**	**Frequentie**	**Toegelaten in volgende landen**
Frequency	***Channel***	***Frequency***	***Admitted in folowing countries***
Frequenz	**Kanal**	**Frequenz**	**Zugelassen in folgende Länder**
Bande	***Canal***	***Fréquence***	***Admises dans les pays suivants***

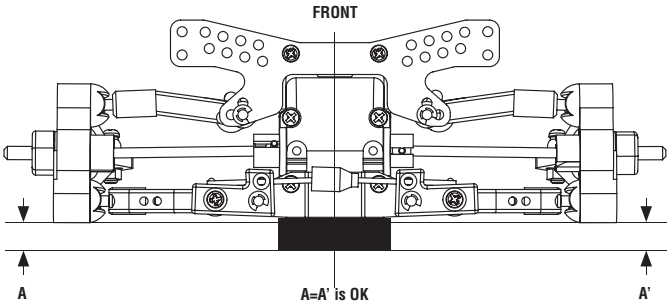
			D	B	A	DK	F	I	L	N	NL	S	CH
27 MHz-Band													
	1	26,965											
	2	26,975											
	3	26,985											
	4	26,995	#	#	#	#		#	#	#	#	#	#
	5	27,005	#					#					
	6	27,015	#					#					
	7	27,025	#					#					
	8	27,035	#					#					
	9	27,045	#	#	#	#		#	#	#	#	#	#
	10	27,055	#					#					
	11	27,065	#					#					
	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					#	#					
40 MHz-Band													
	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	#					#				#	
41 MHz-Band													
	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

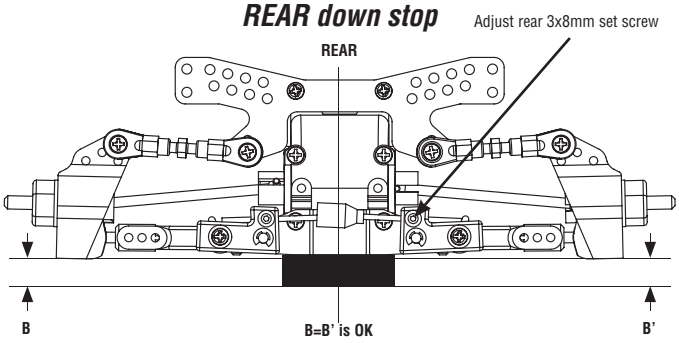




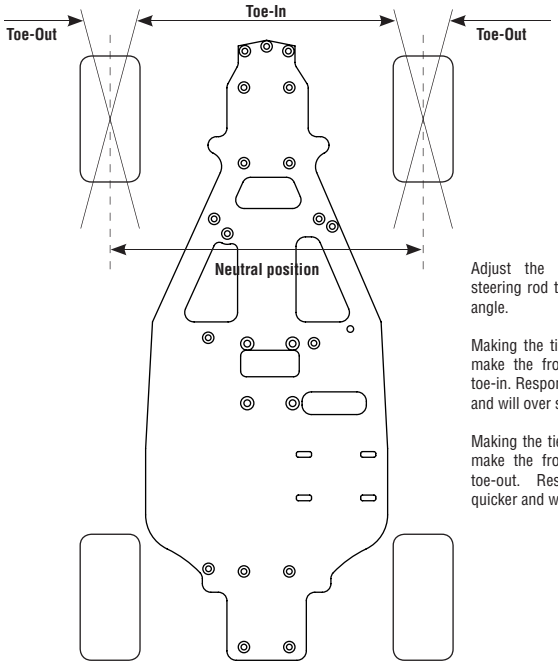
FRONT down stop



REAR down stop



FRONT TOE-IN & TOE-OUT setting

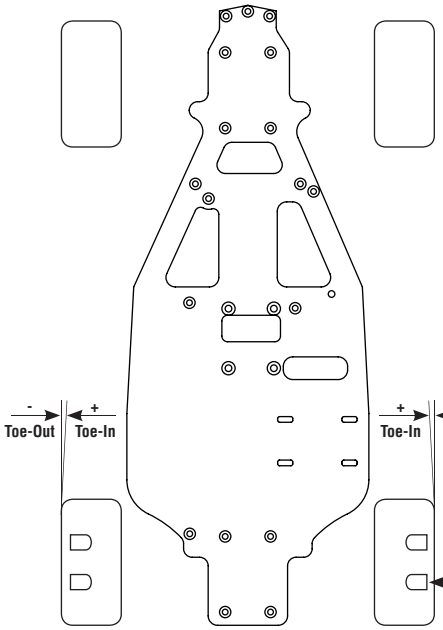


Adjust the length of front steering rod to change the toe angle.

Making the tie rod longer will make the front tires become toe-in. Response will be slower and will over steer.

Making the tie rod shorter will make the front tires become toe-out. Response will be quicker and will under steer.

REAR TOE-IN & TOE-OUT setting

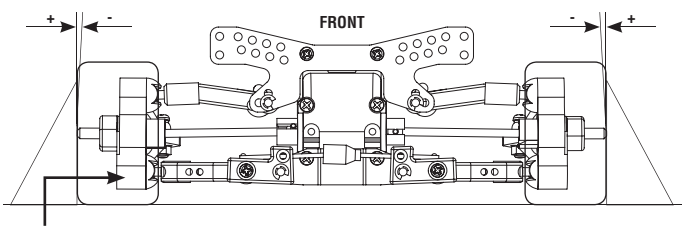


Adjust the length of the rear hub (8mm ball) to change the toe angle.

Making the 8 mm ball longer will make the rear tires become toe-in. Response will be under steer.

Making the 8mm ball shorter will make the rear tires become toe-out. Response will be over steer.

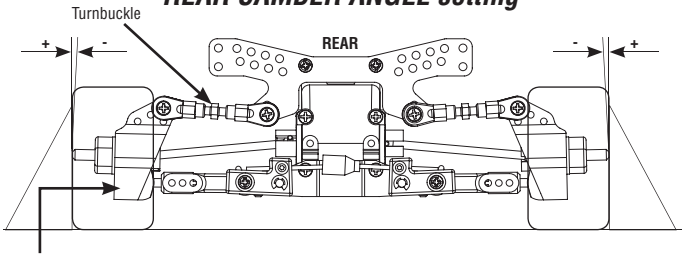
FRONT CAMBER ANGLE setting



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 rigth angles to the ground.

REAR CAMBER ANGLE setting

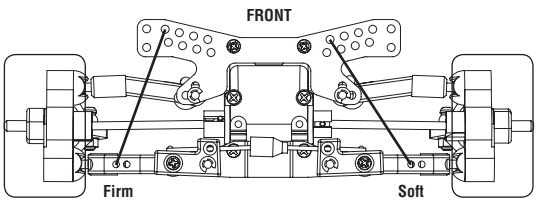


Use 2,5mm hex wrench to adjust lower arm ball in front.

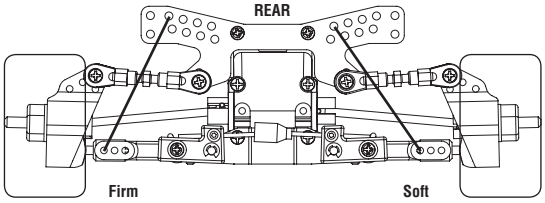
The rear camber adjustement can be made by moving the turnbuckle rod on the upper arms, clockwise or anticlockwise.
We suggest zero degrees for the front and one degree negative for the rear.

Set-up guide

SHOCK ANGLE setting - use these settings to tune your car

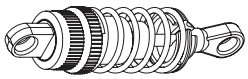


Firm front suspension, less steering.
Soft front suspension, more steering.



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

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

	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	‘ “	‘ “	‘ “	‘ “	‘ “	‘ “	‘ “	‘ “

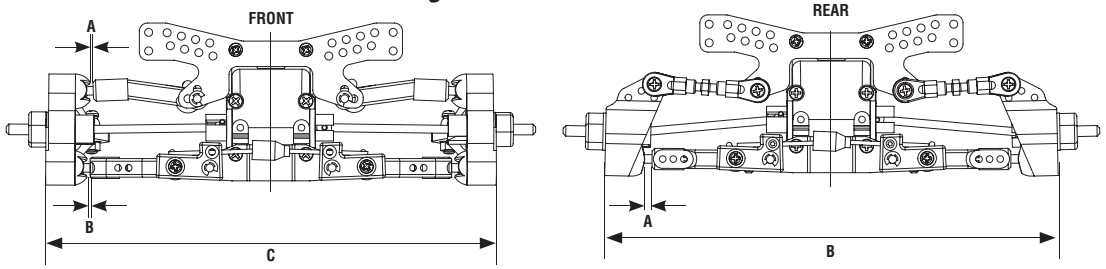
Set-up sheet

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

FRONT
A= mm
B= mm
C= mm

REAR
A= mm
B= mm

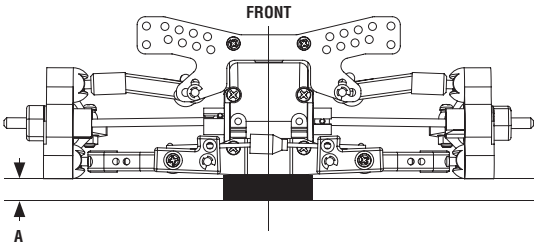
FRONT & REAR width setting



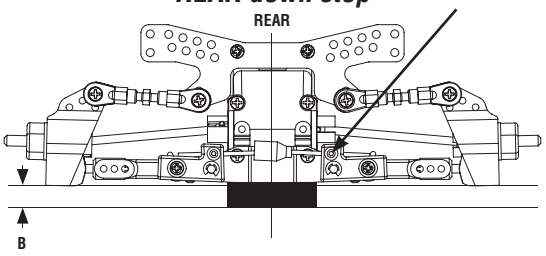
FRONT
A= mm

REAR
B= mm

FRONT down stop



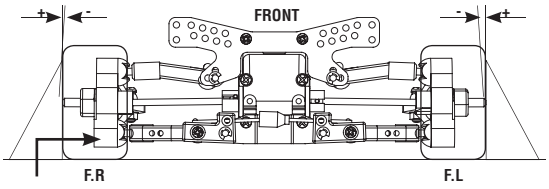
REAR down stop



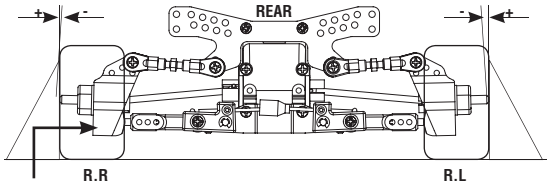
FRONT
F.L ° + -
F.R ° + -

REAR
R.L ° + -
R.R ° + -

FRONT CAMBER ANGLE setting



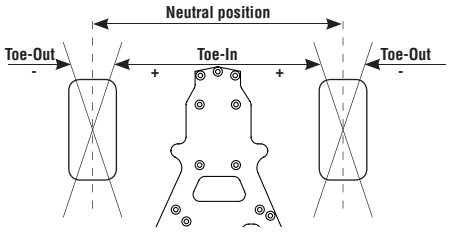
REAR CAMBER ANGLE setting



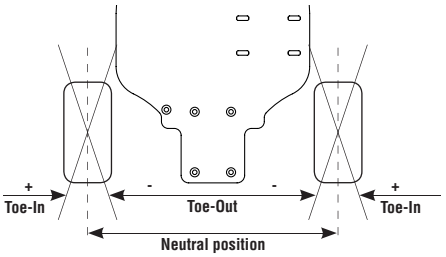
FRONT
° + - N
° + - N

REAR
° + - N
° + - N

FRONT TOE-IN & TOE-OUT setting



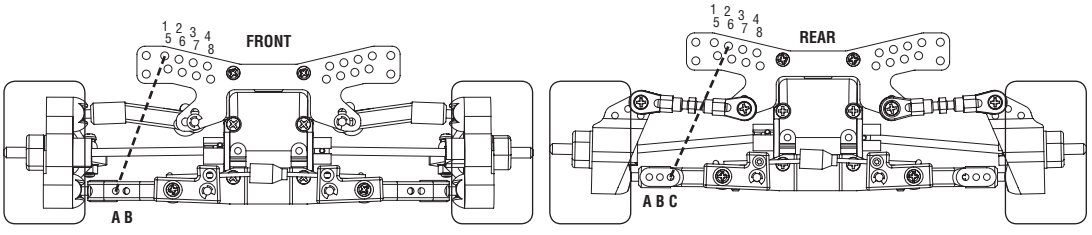
REAR TOE-IN & TOE-OUT setting



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

SHOCK ANGLE setting - use these settings to tune your car



HARDNESS OF SPRING	FRONT			REAR		
	H	M	S	H	M	S

SHOCK OIL							
	FRONT	10W	20W	30W	40W	50W	60W
	REAR	10W	20W	30W	40W	50W	60W

Set-up sheet

DATE	EBGINE	TIRE (F)	
CIRCUIT	FUEL	TIRE (R)	
		TEMP °C/F	WET

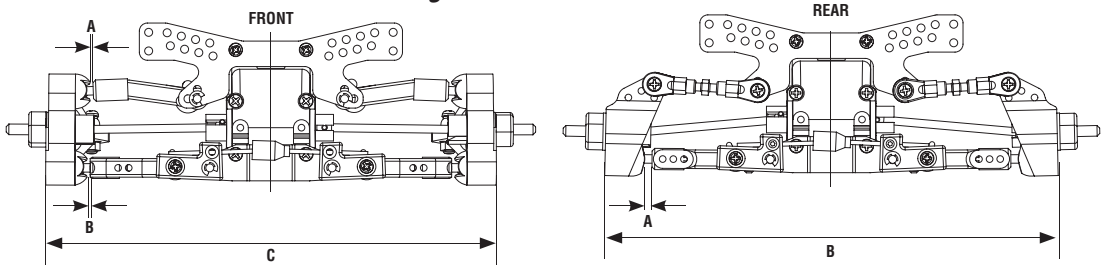
FRONT

A= mm
B= mm
C= mm

REAR

A= mm
B= mm

FRONT & REAR width setting



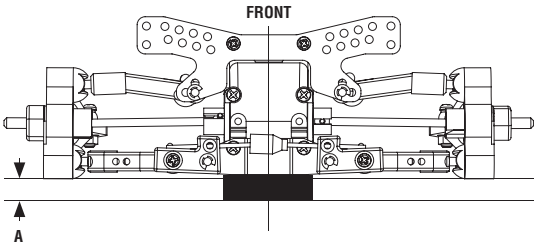
FRONT

A= mm

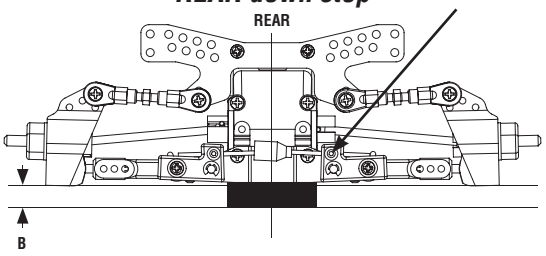
REAR

B= mm

FRONT down stop



REAR down stop



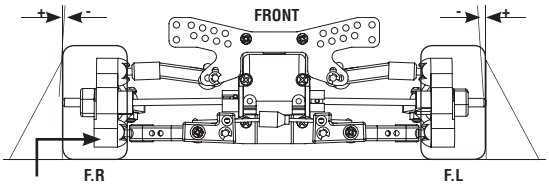
FRONT

F.L ° + -
F.R ° + -

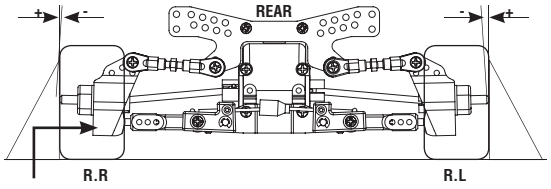
REAR

R.L ° + -
R.R ° + -

FRONT CAMBER ANGLE setting



REAR CAMBER ANGLE setting



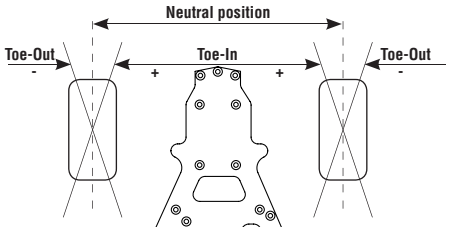
FRONT

° + - N
° + - N

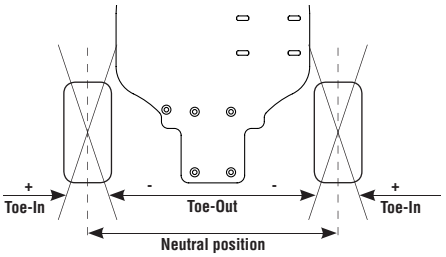
REAR

° + - N
° + - N

FRONT TOE-IN & TOE-OUT setting



REAR TOE-IN & TOE-OUT setting



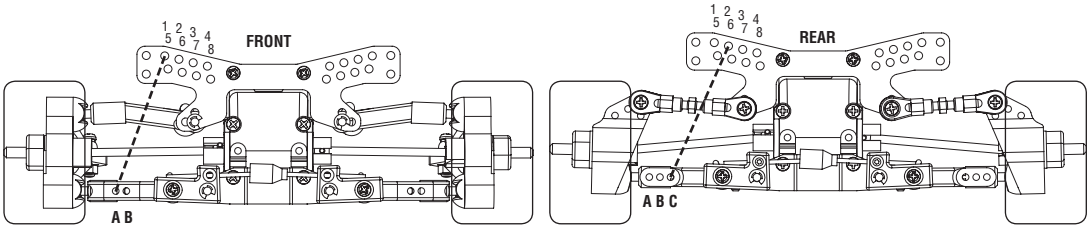
FRONT

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

SHOCK ANGLE setting - use these settings to tune your car



HARDNESS OF SPRING	FRONT			REAR		
	H	M	S	H	M	S

SHOCK OIL							
	FRONT	10W	20W	30W	40W	50W	60W
	REAR	10W	20W	30W	40W	50W	60W

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Geelseweg 80 • B-2250 OLEN • Belgium
Tel. +32 (0)14-25 92 83 • E-mail: info@protech.be
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