



Instruction Manual



Schumacher
racing-cars.com

71-73 Tenter Road
Moulton Park
Northampton
NN3 6AX
U.K.

Additional Items Required

Transmitter and Receiver
(including batteries for tx)

CR151
CODE 2.4G 2 Stick 3Ch Tx+Rx
CR152
CODE 2.4G 2 Stick 3Ch Receiver ONLY



Servo



Electronic Speed Control



Li-Po Battery



Motor



Pinion Gear



Battery Charger
CR161



Paint



C4450
CS Superglue 20g



Tyres and Inserts



Additional items

G796 Male Connector Plugs



SPW1403
High Current 14AWG Wire



Tools

U2818
Schumacher Body Reamer



U4229 Steel Spanner - 5.5mm/3.9mm

CR044 Curved Body Scissors



U2789 Hex Driver - 1.5mm
U2790 Hex Driver - 2.0mm
U2791 Hex Driver - 2.5mm
U2792 Hex Driver - 3.0mm

U2795 M3 Nut Driver
U2796 M4 Nut Driver



Soldering Iron
CR266 40W
CR275 80W



U3107 - Solder

IMPORTANT SAFETY NOTES

- This product is not suitable for children under the age of 14, without the direct supervision of an adult.
- Select an area for assembly that is away from the reach of small children. The parts in this kit are small and can be swallowed by children causing choking and possible internal injuries.
- Exercise care when using hand tools and sharp instruments during assembly.
- Carefully read all manufacturers warnings and cautions for any additional parts used in the construction.
- In line with our policy of continuous development the exact details of the kit may vary.

COUGAR KR

Schumacher Racing stocks and distributes the following manufacturers products and full product listings are available on our website at www.racing-cars.com

PLEASE NOTE THAT SOME OF THE PRODUCT RANGES BELOW ARE ONLY AVAILABLE IN THE UNITED KINGDOM.

Speco

EastCoast Bodies TUNE

CS-ELECTRONIC

TEAM SOREX

ARROWMAX

CORE-RC .COM

NISRAM

Speed Passion

GM RACING

FTII

HOBBY KING

RHEINARD R33D

MotTech RACING

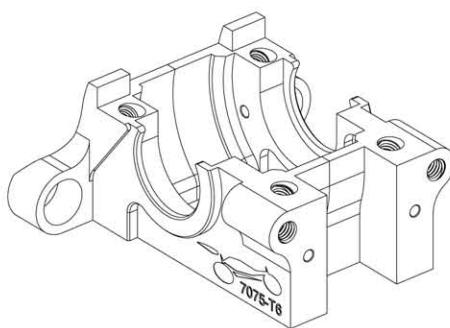
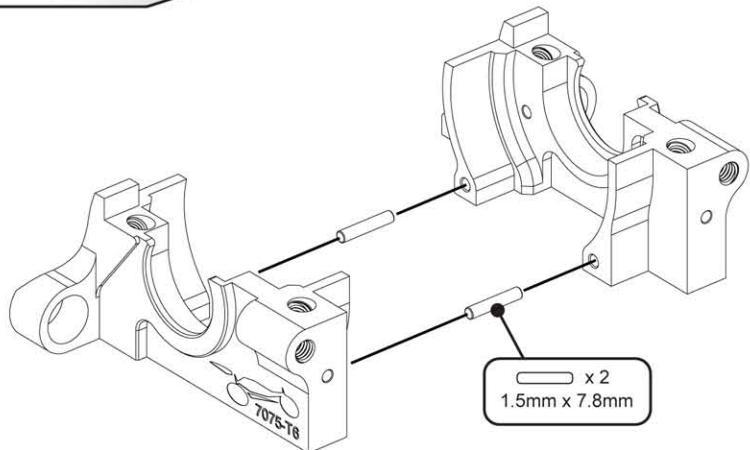
THUNDER POWER RC

team CPS
Specialized R/C Tools

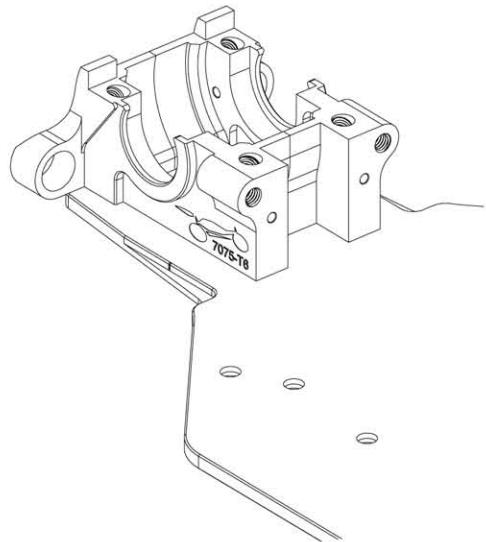
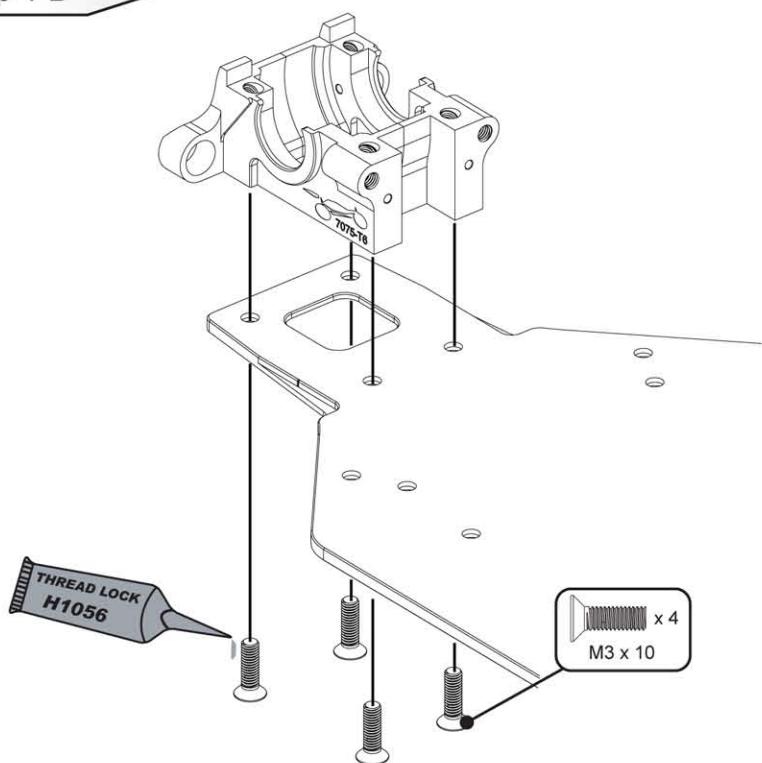
contact
RC RACING TYRES

Step 1 A

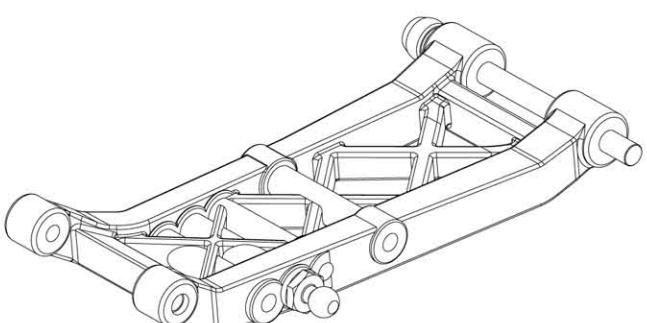
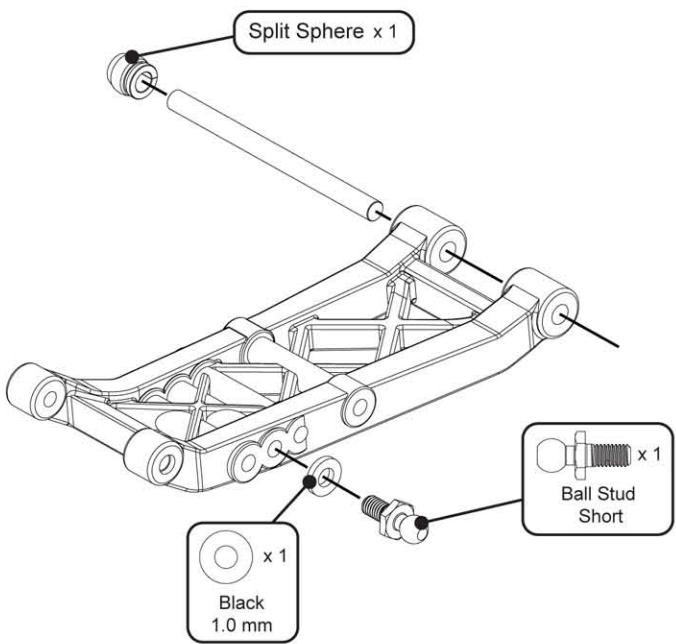
COUGAR KR



Step 1 B



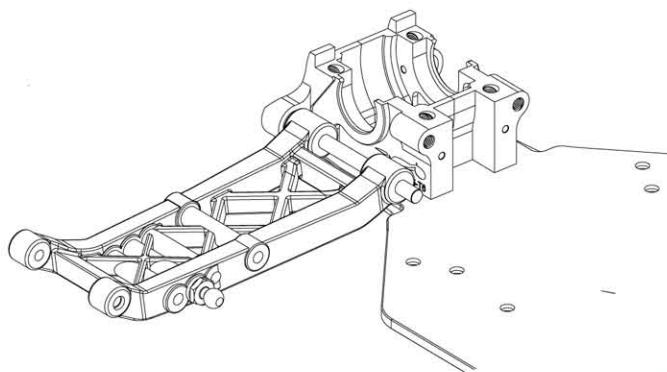
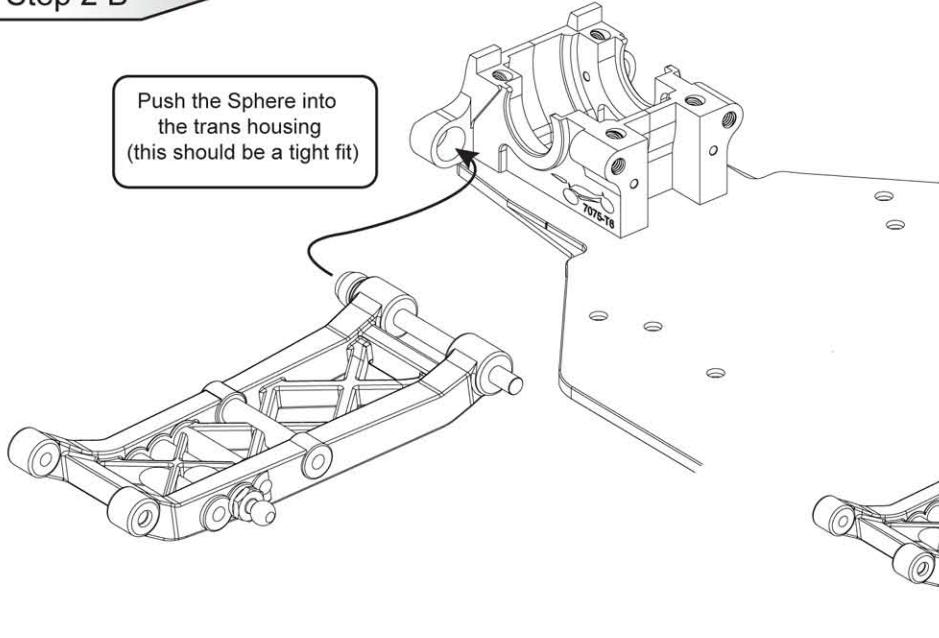
Step 2 A



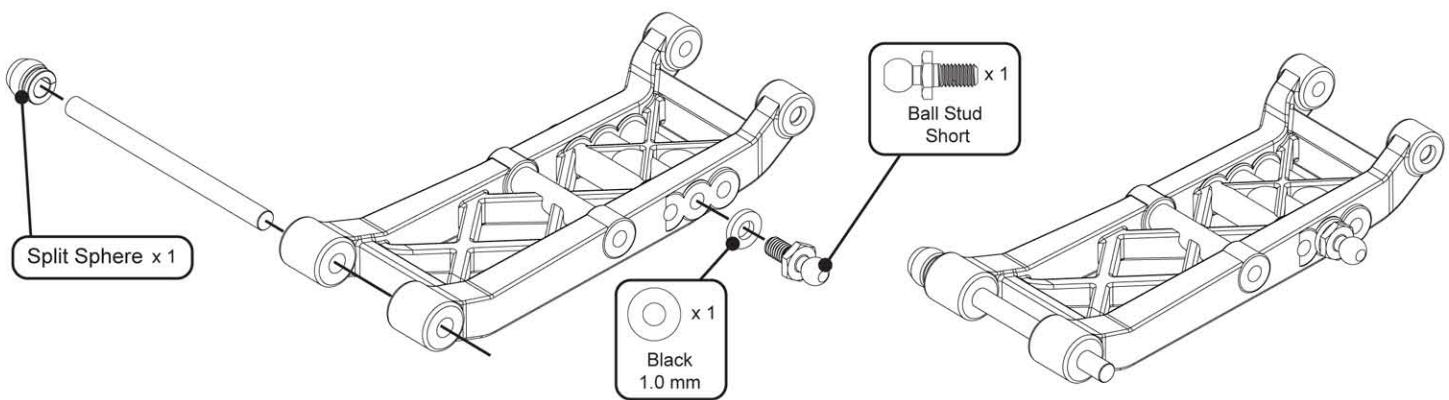
Step 2 B

COUGAR KR

Push the Sphere into
the trans housing
(this should be a tight fit)

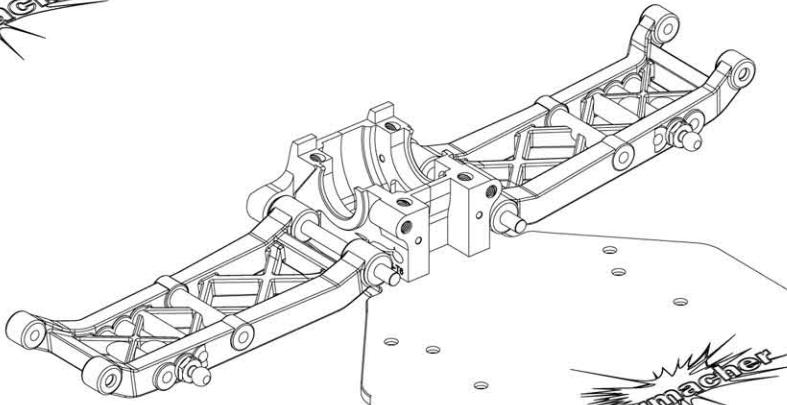
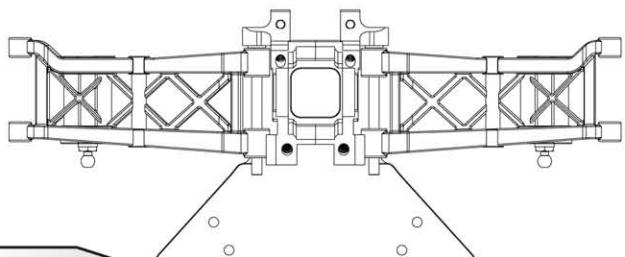
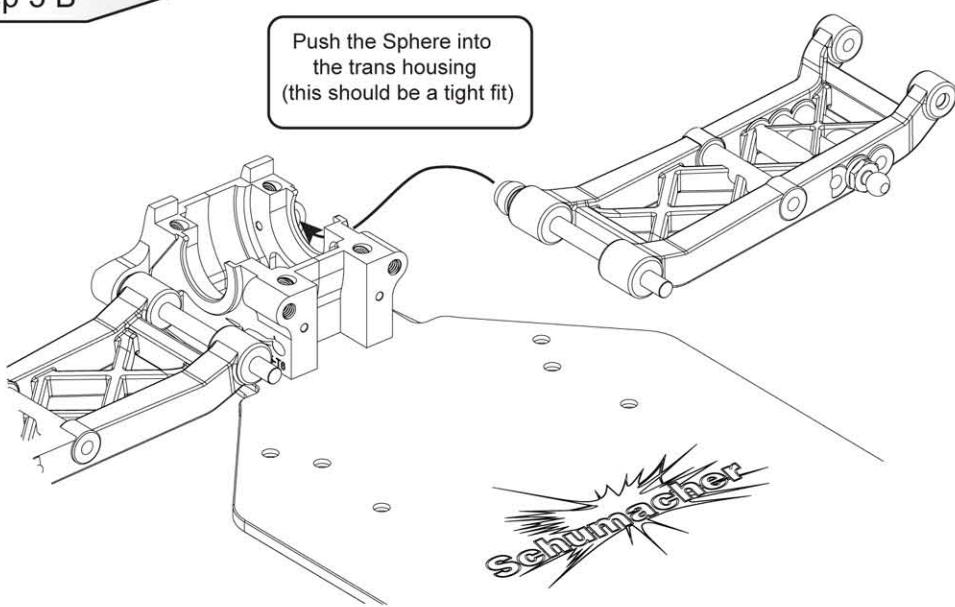


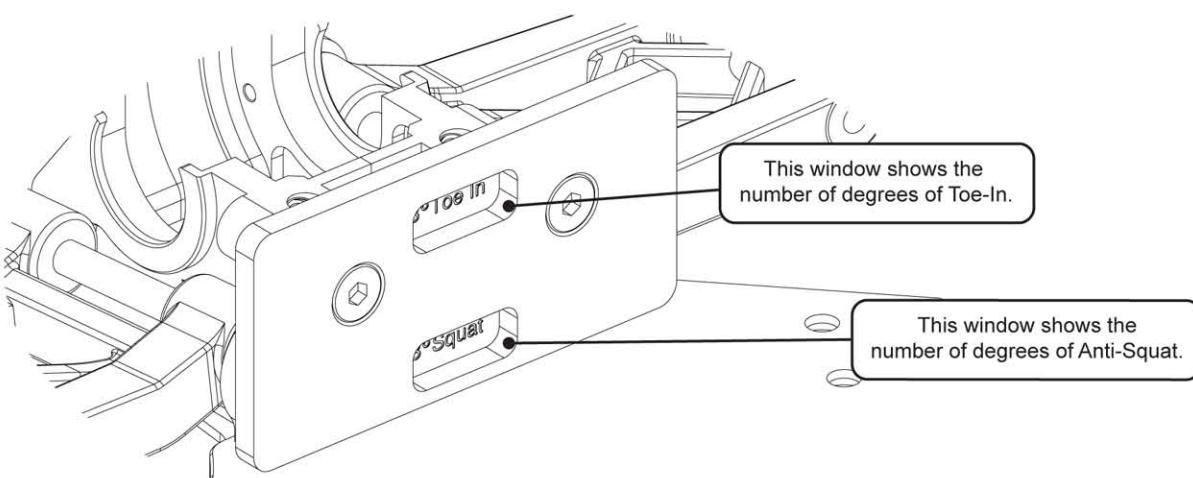
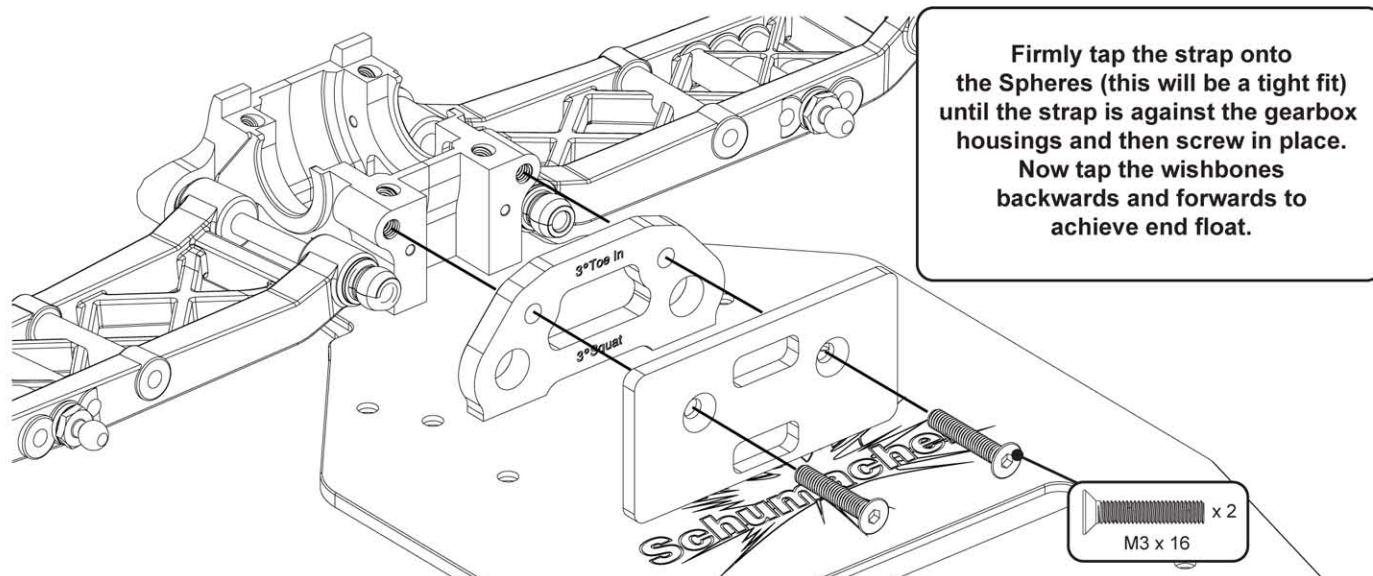
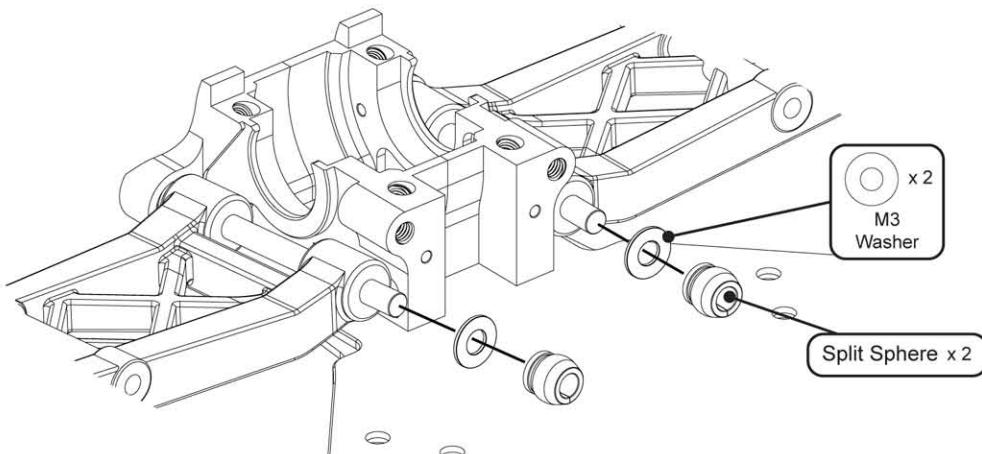
Step 3 A



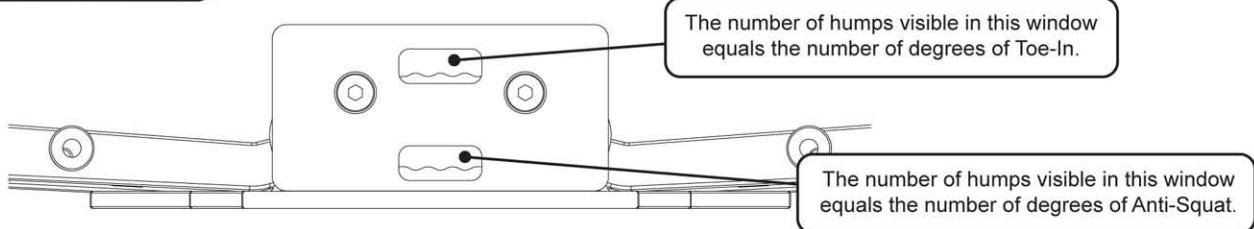
Step 3 B

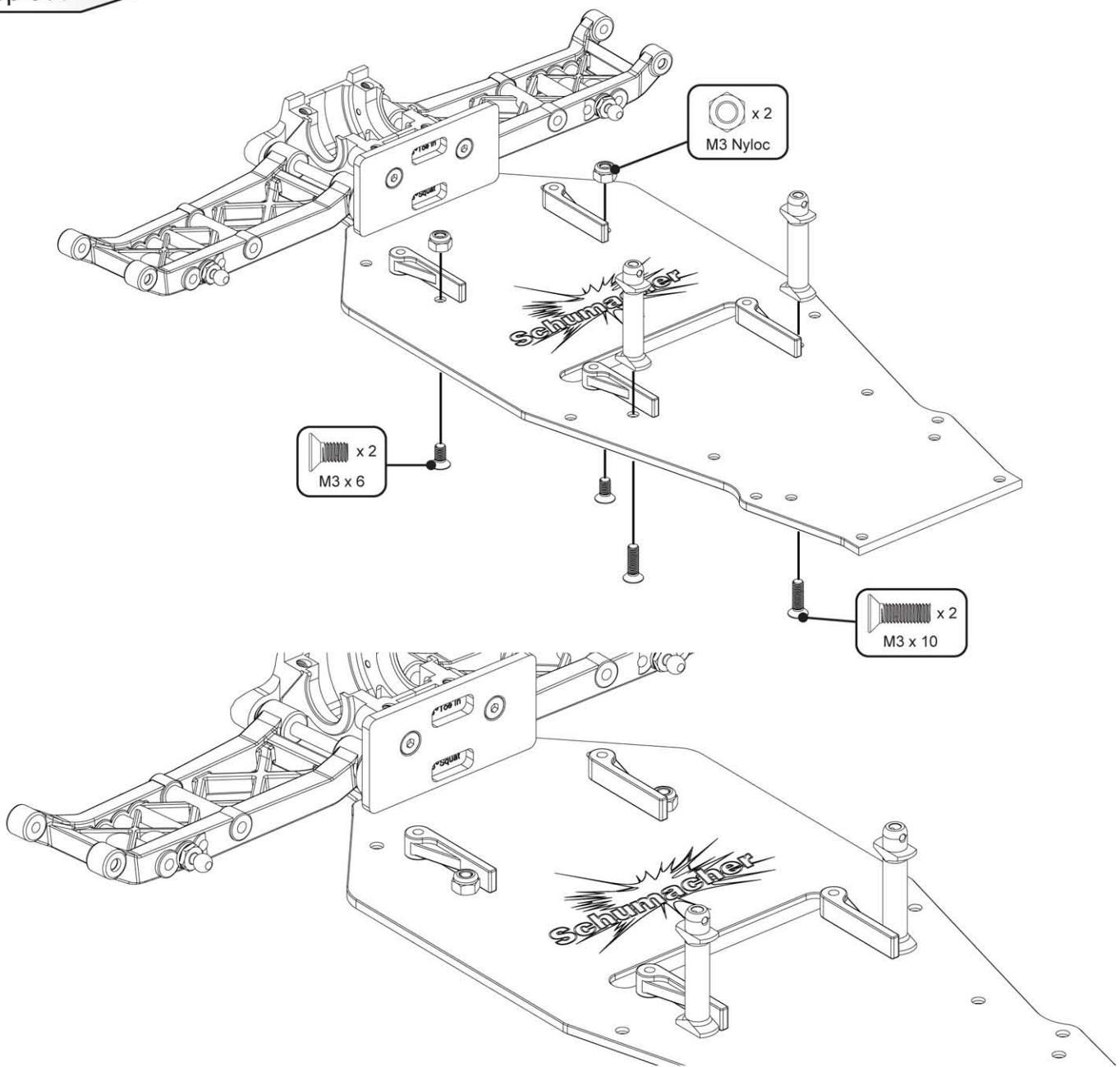
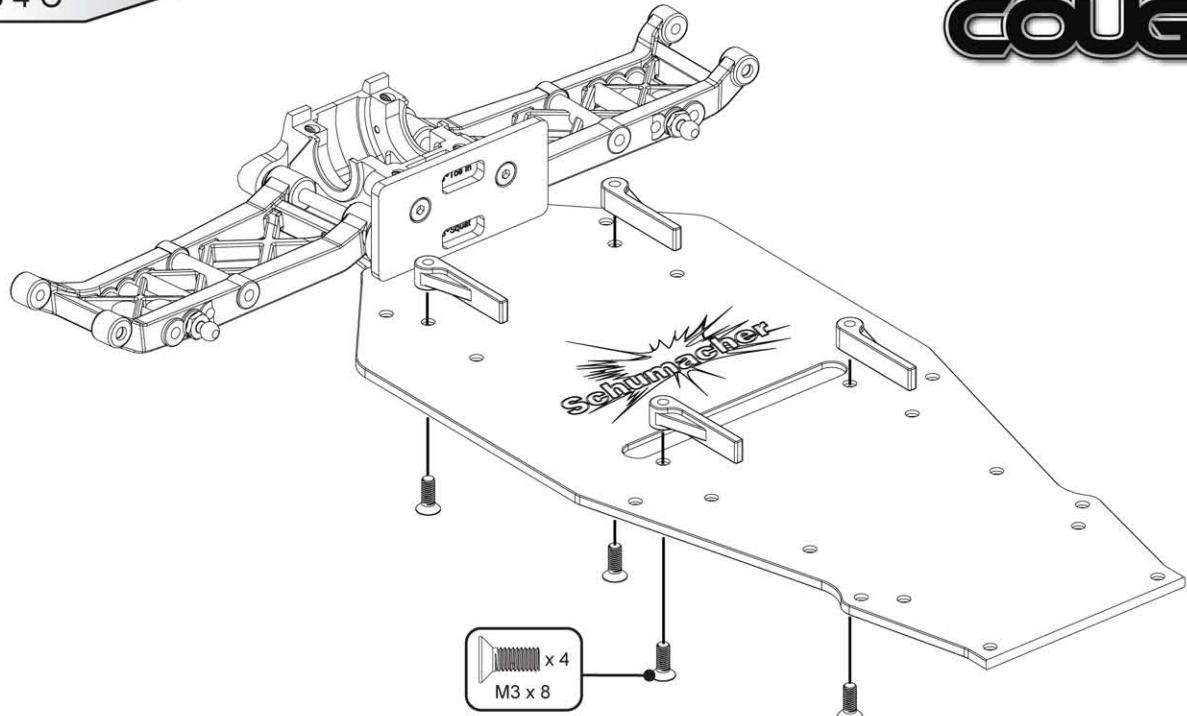
Push the Sphere into
the trans housing
(this should be a tight fit)





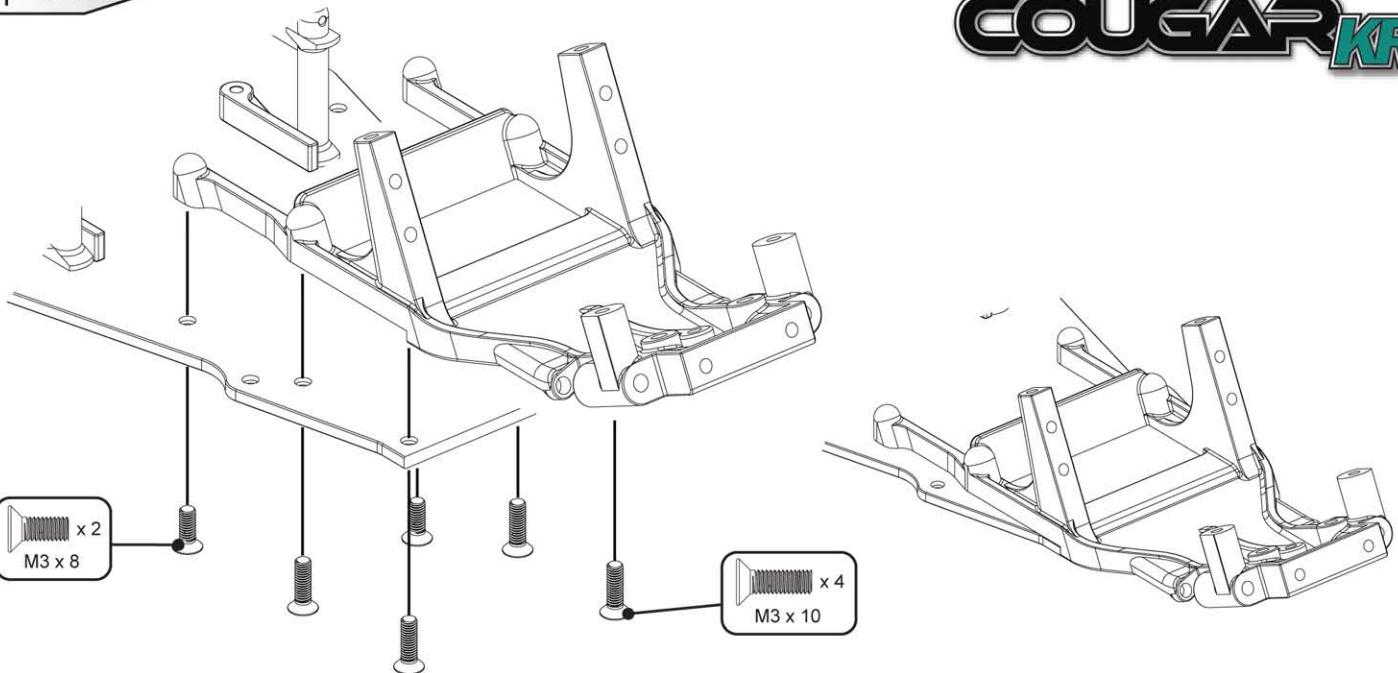
Optional Carbon Plates



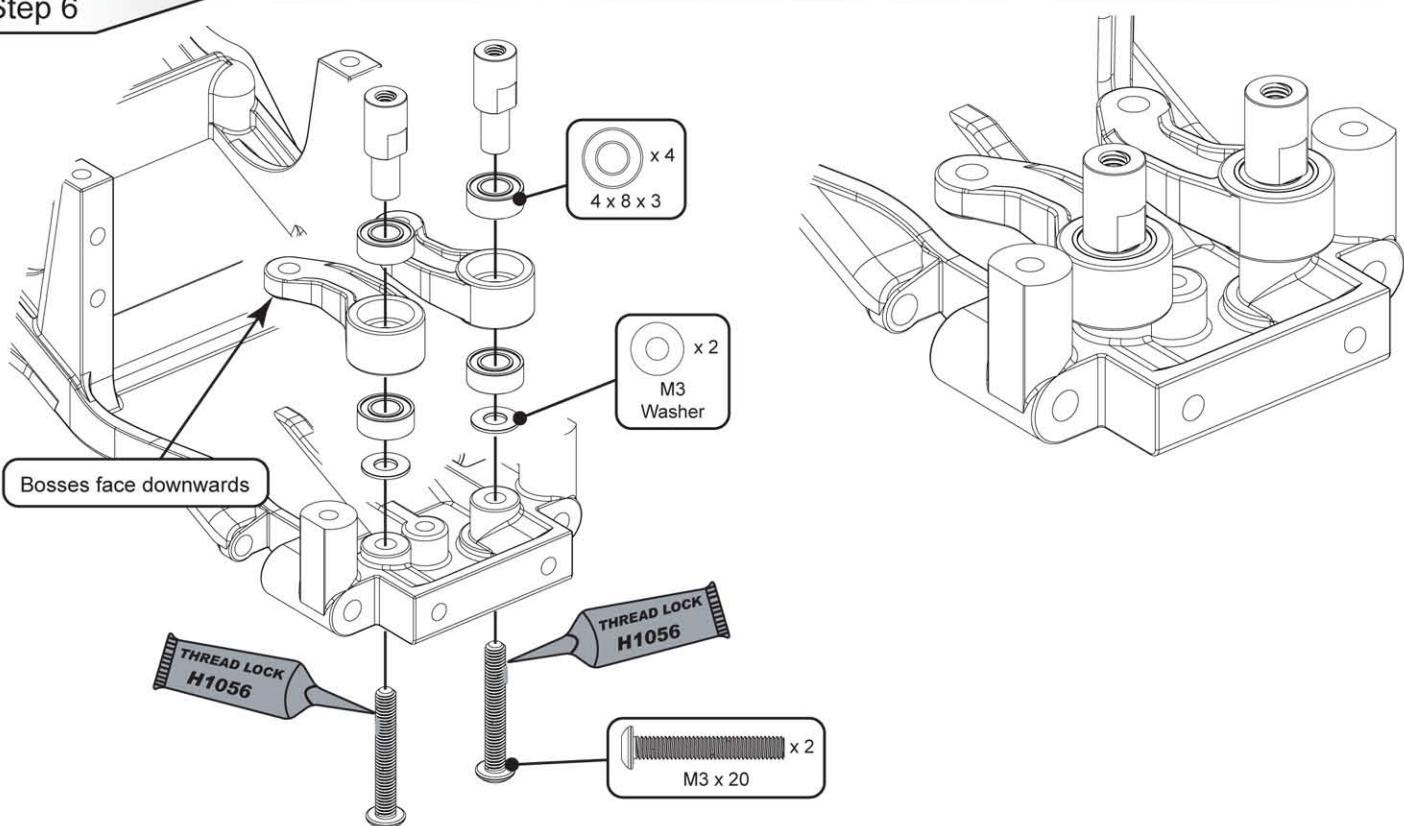


Step 5 B

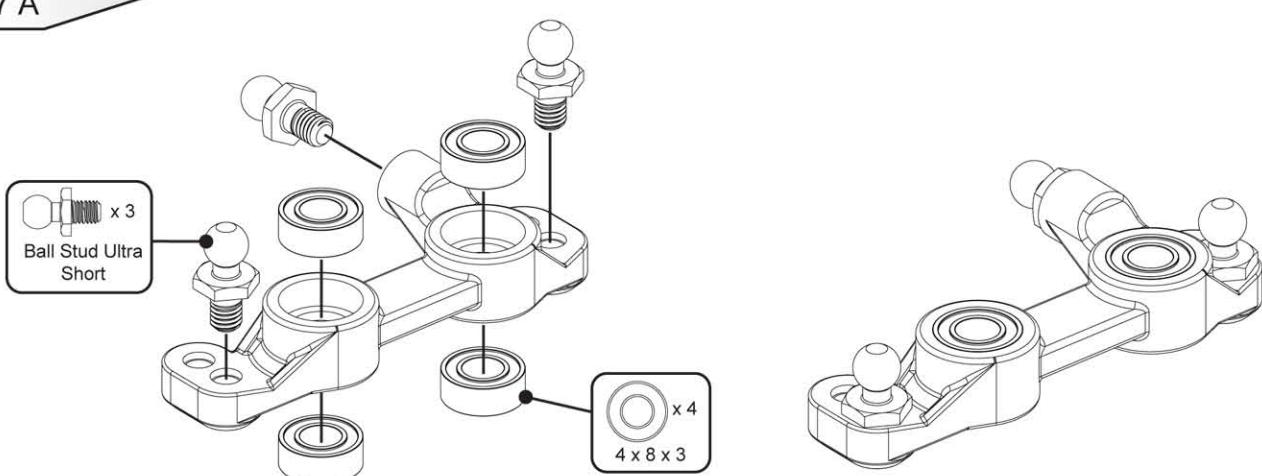
COUGAR KR



Step 6

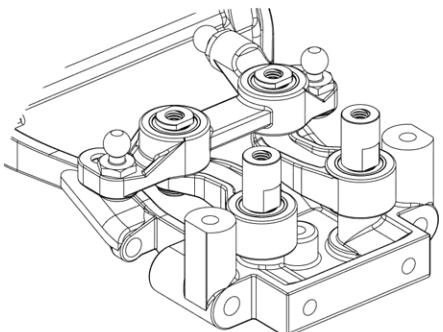
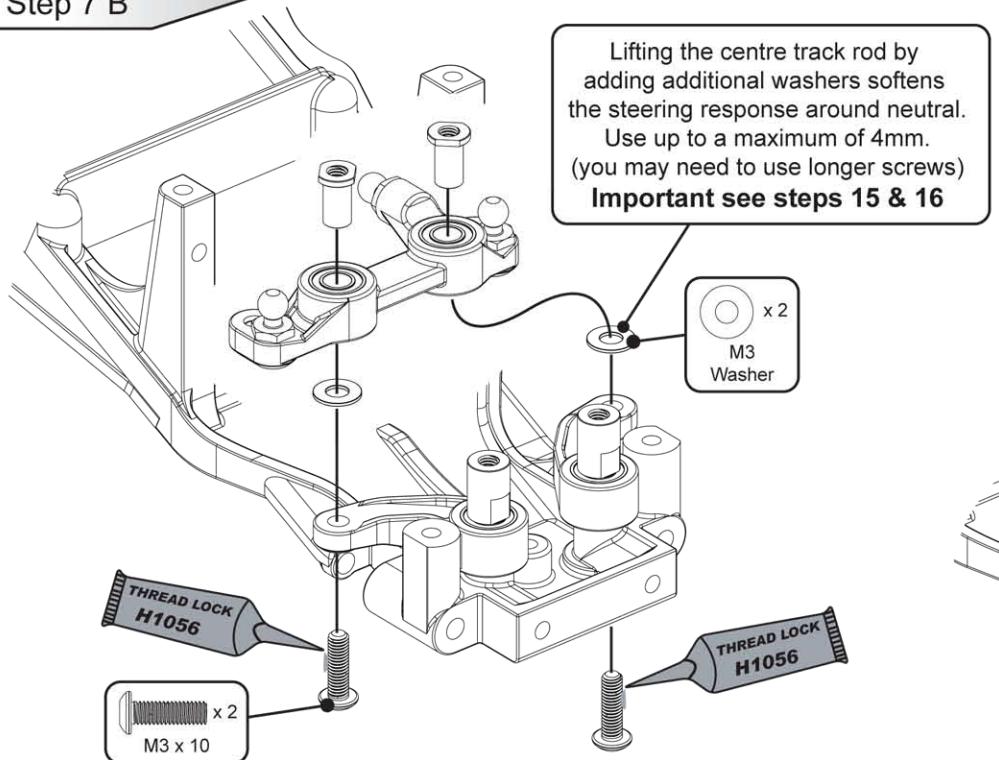


Step 7 A

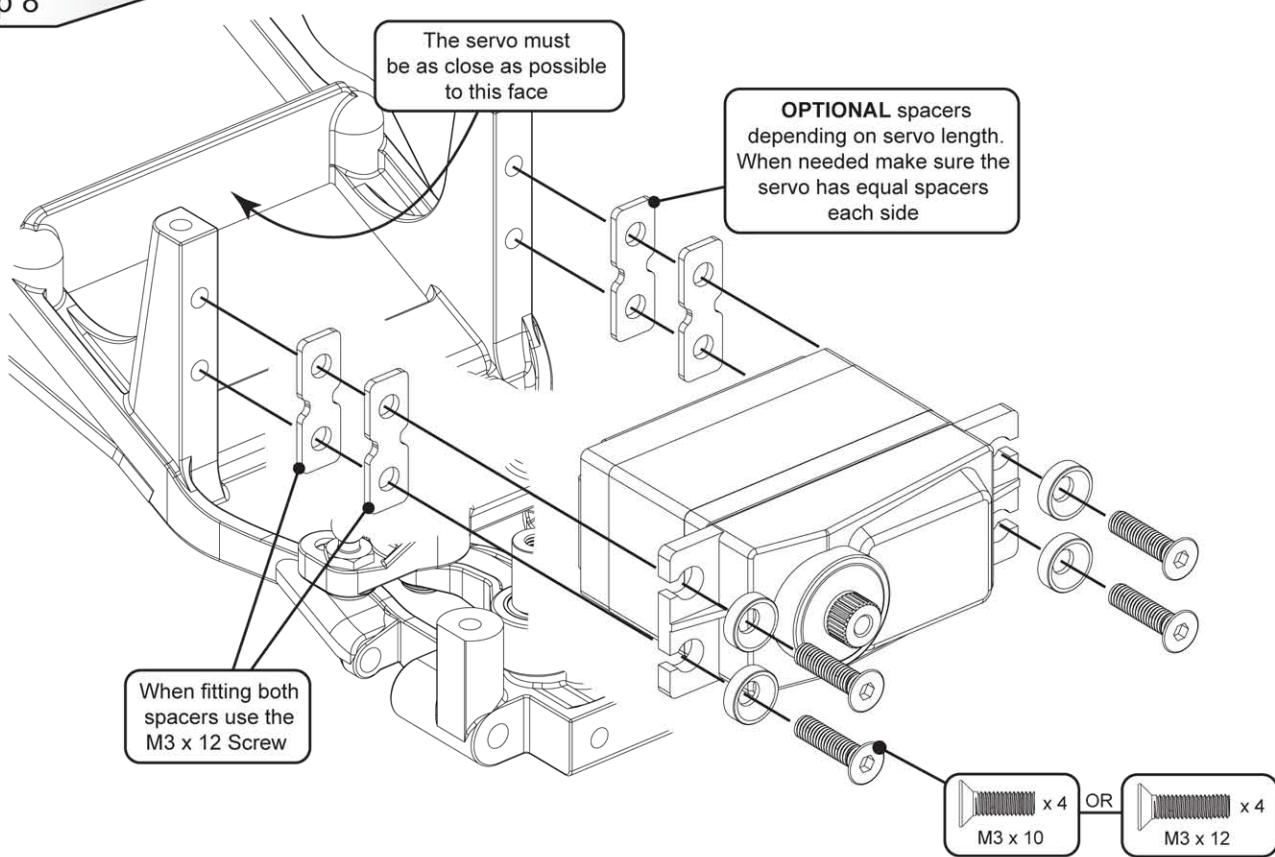


Step 7 B

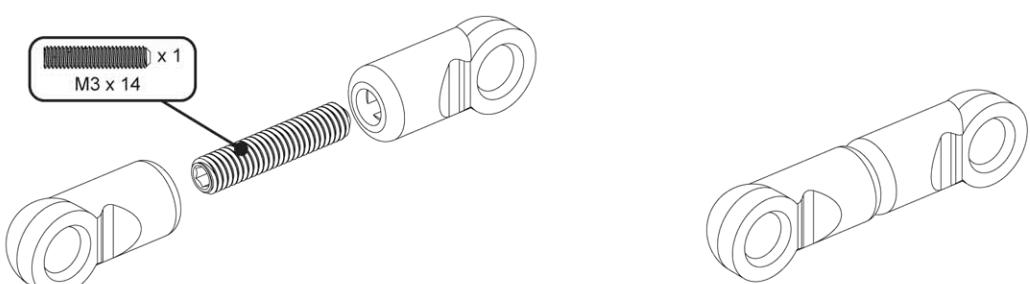
COUGAR KR



Step 8

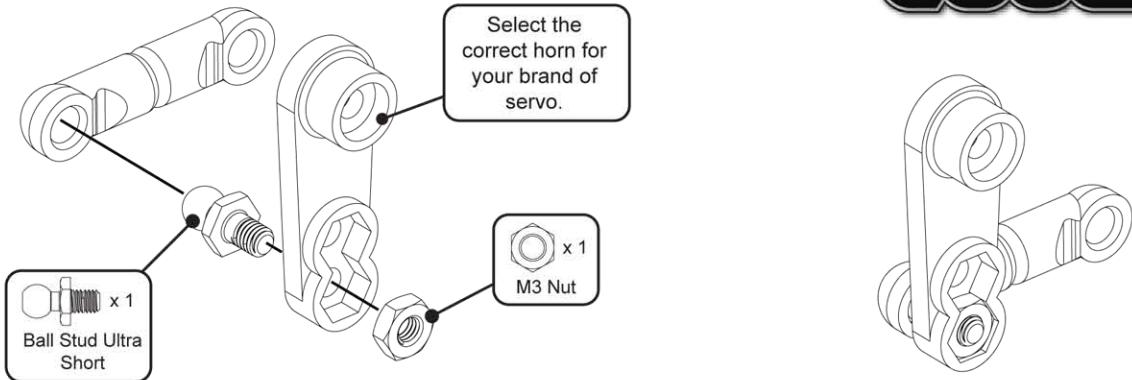


Step 9 A

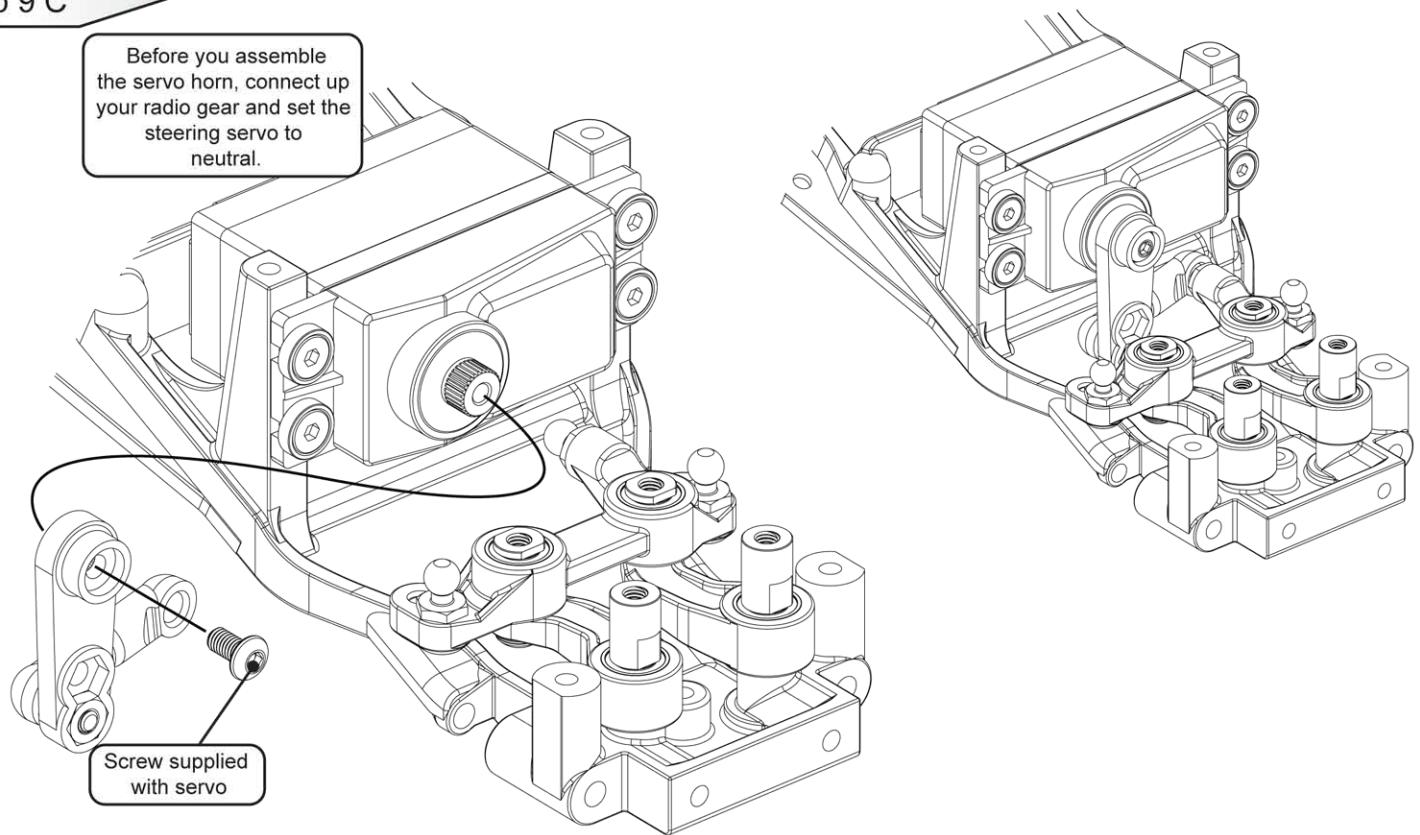


Step 9 B

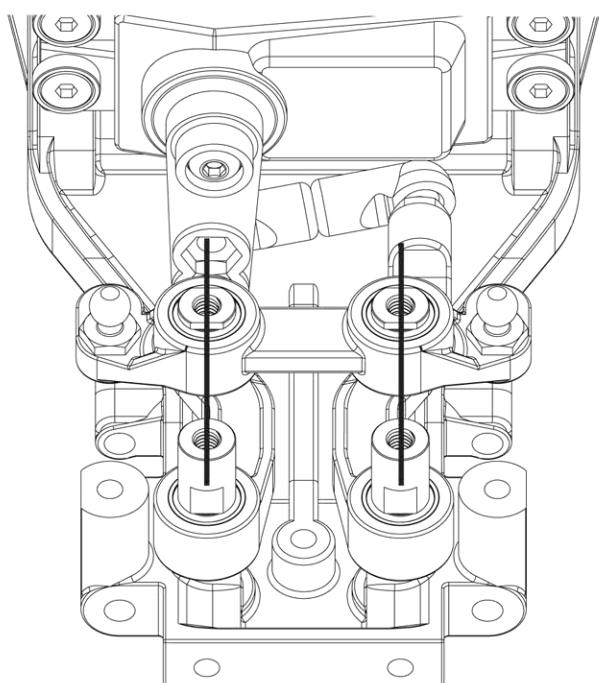
COUGAR KR



Step 9 C

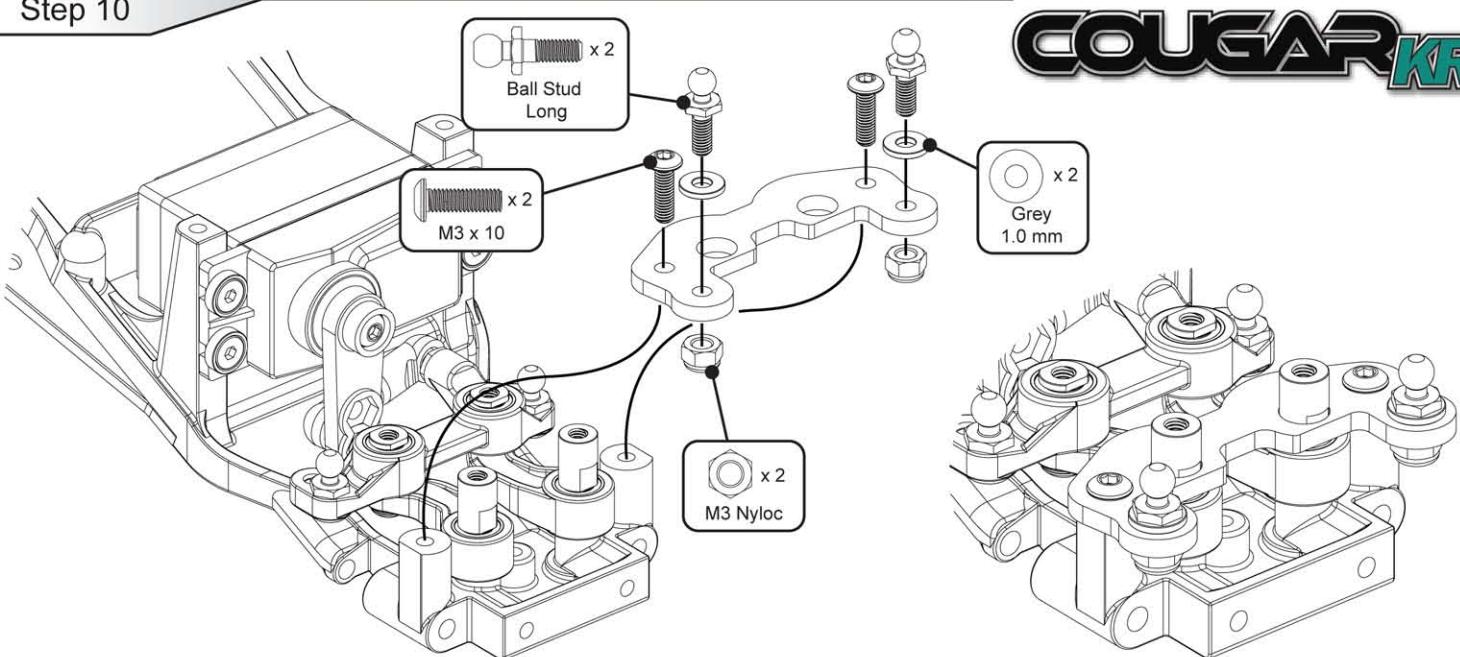


Step 9 D

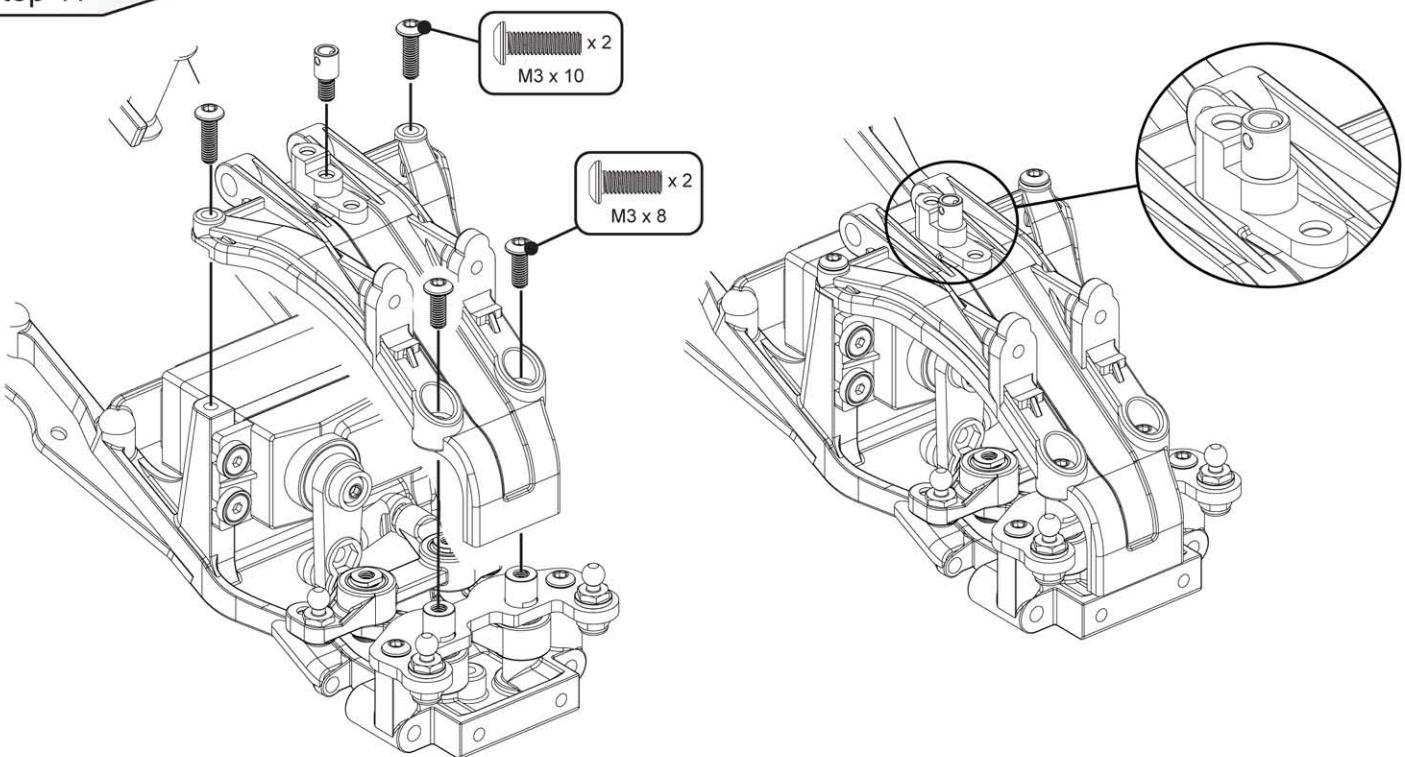


Step 10

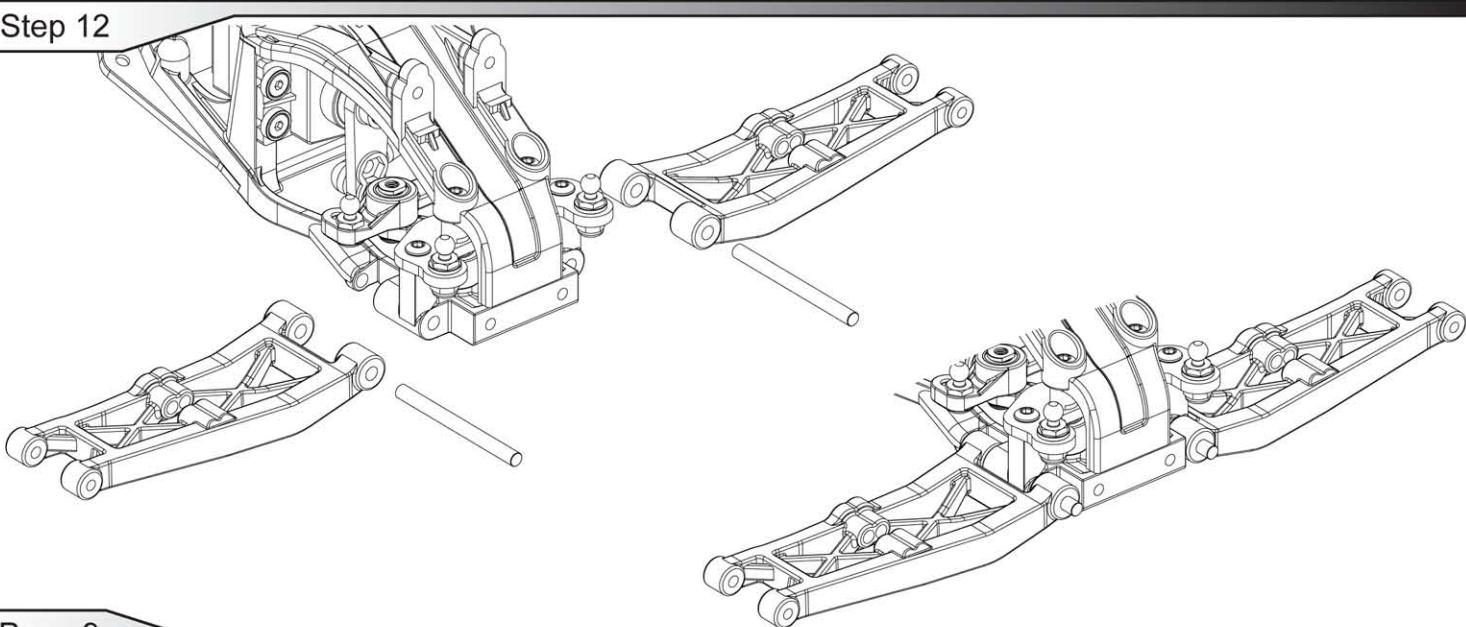
COUGAR KR

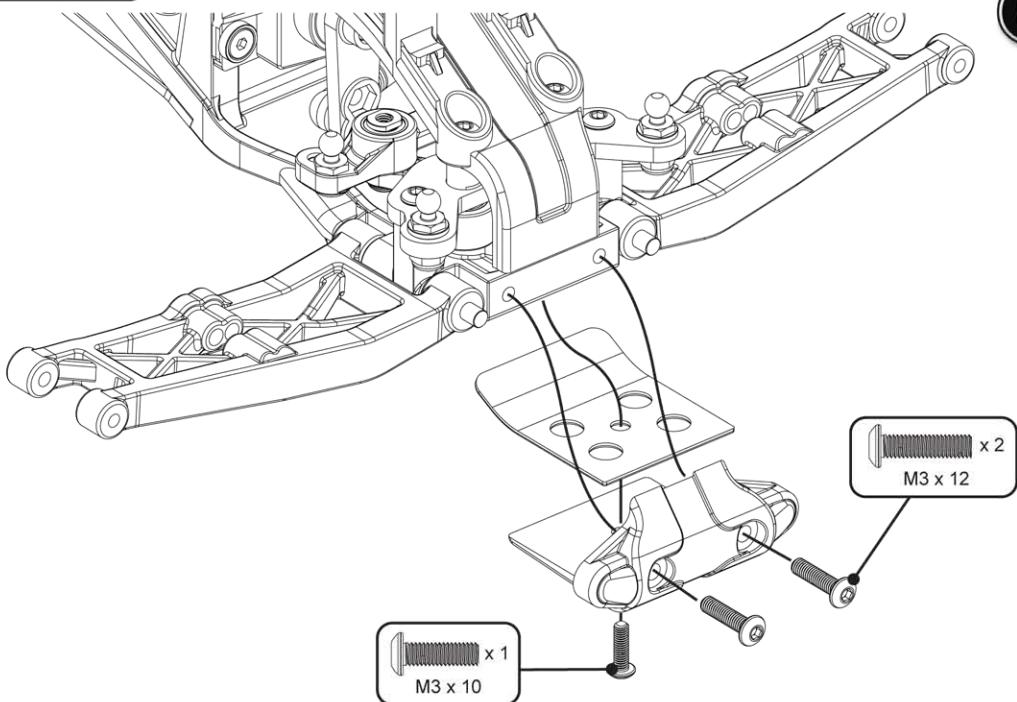


Step 11

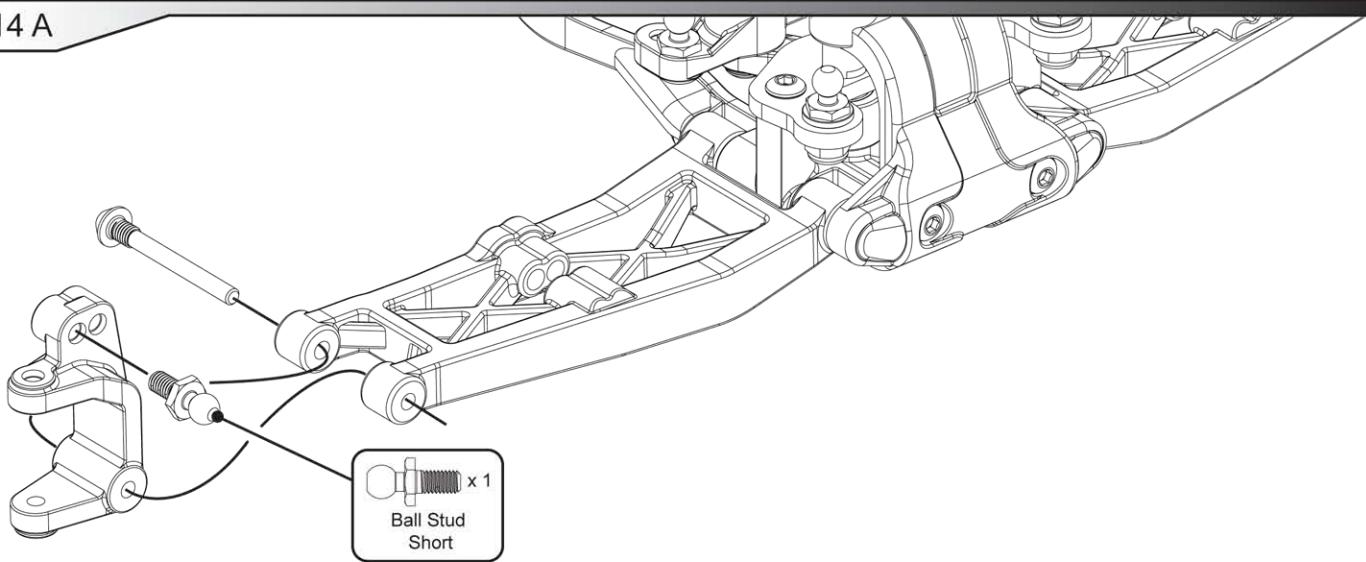


Step 12

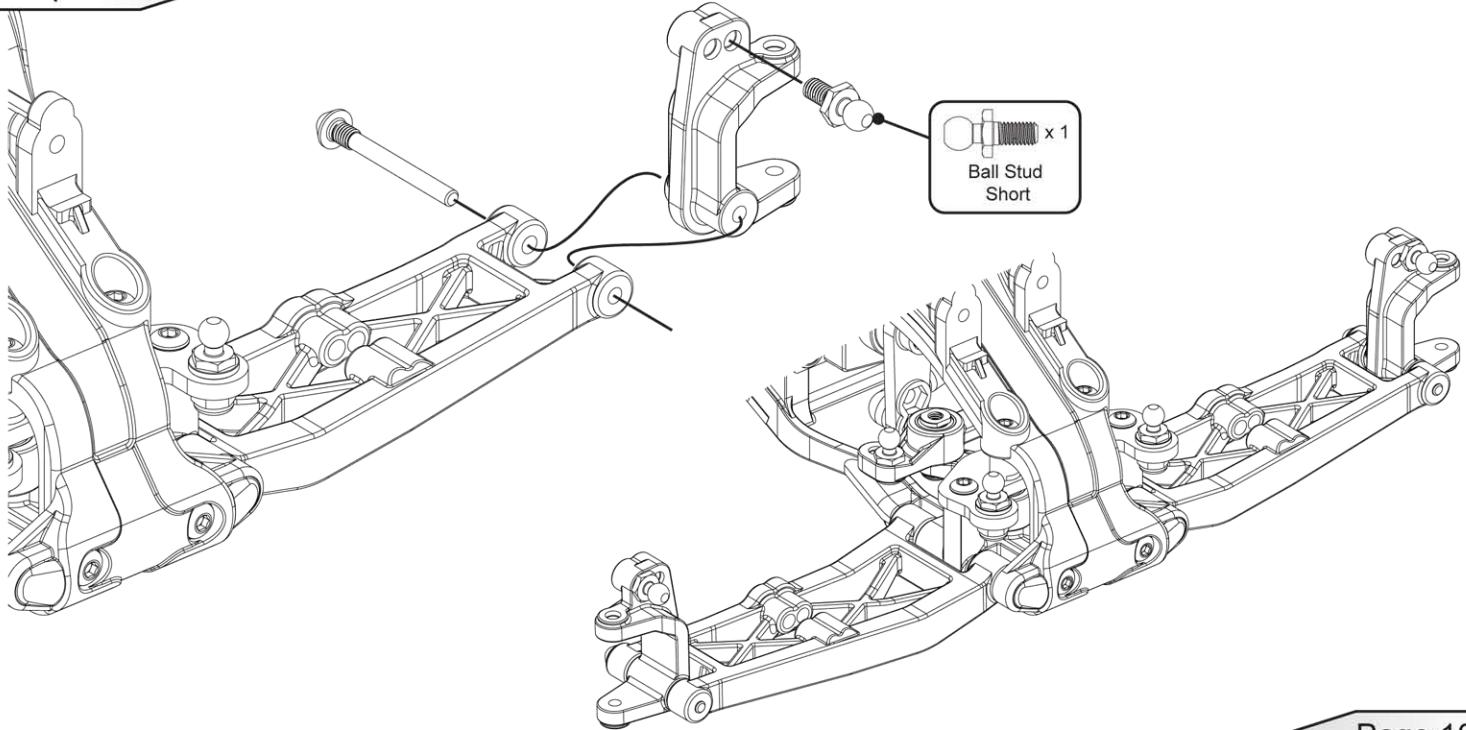




Step 14 A

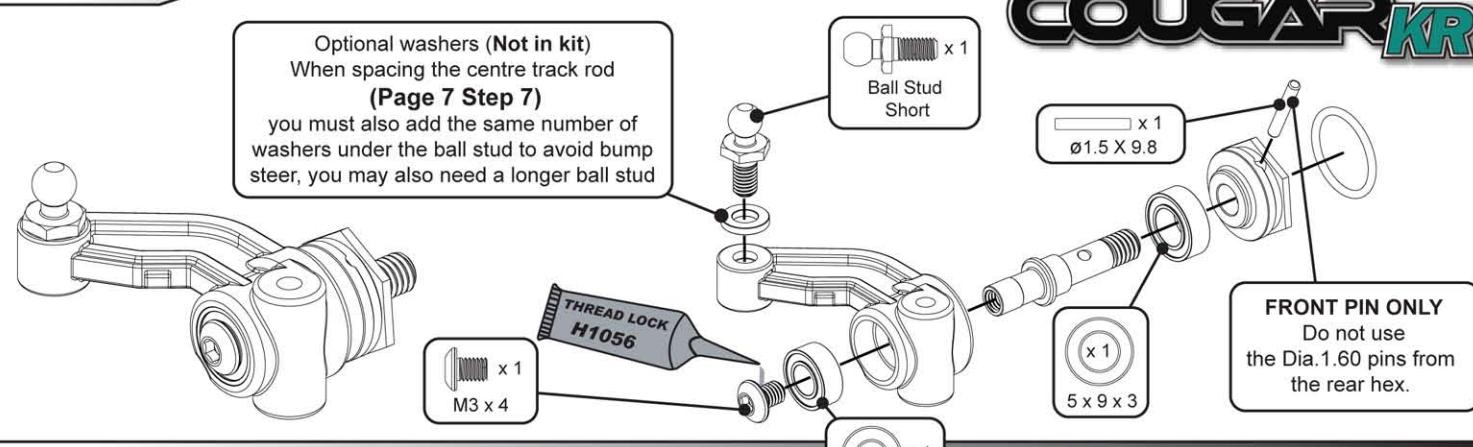


Step 14 B

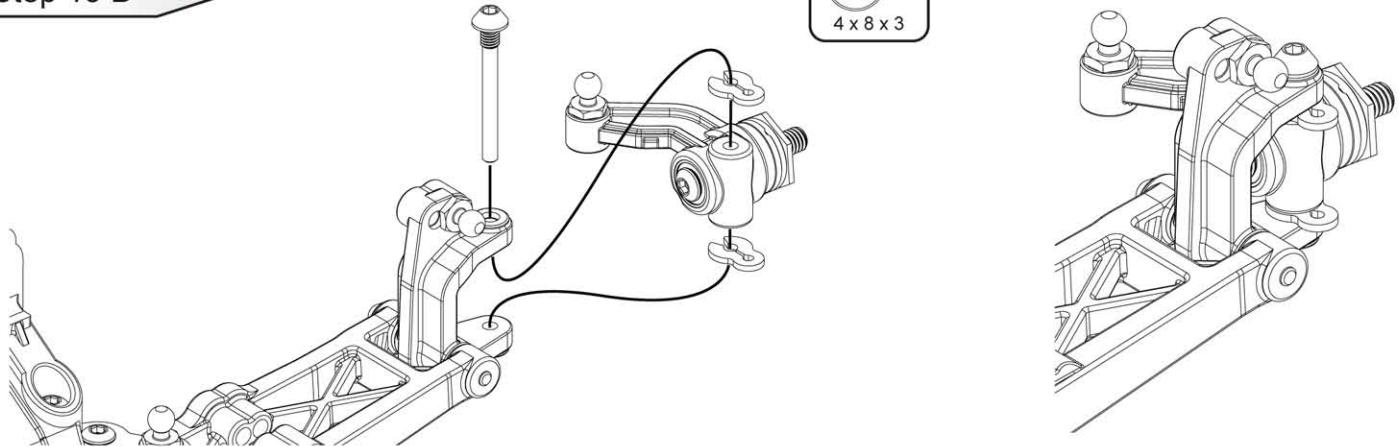


Step 15 A

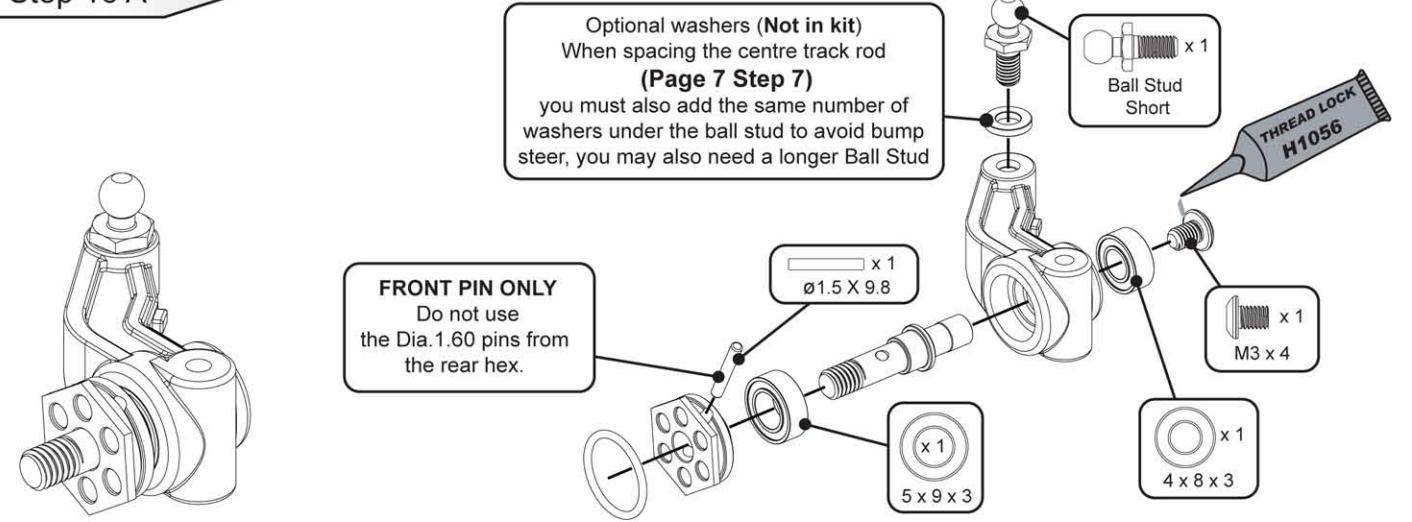
COUGAR KR



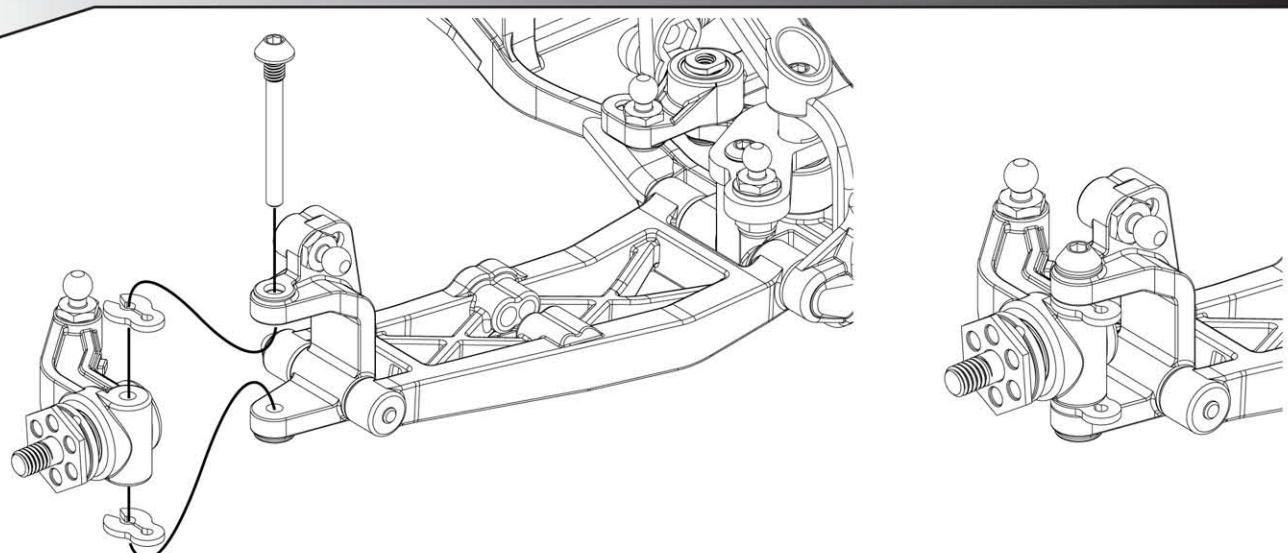
Step 15 B



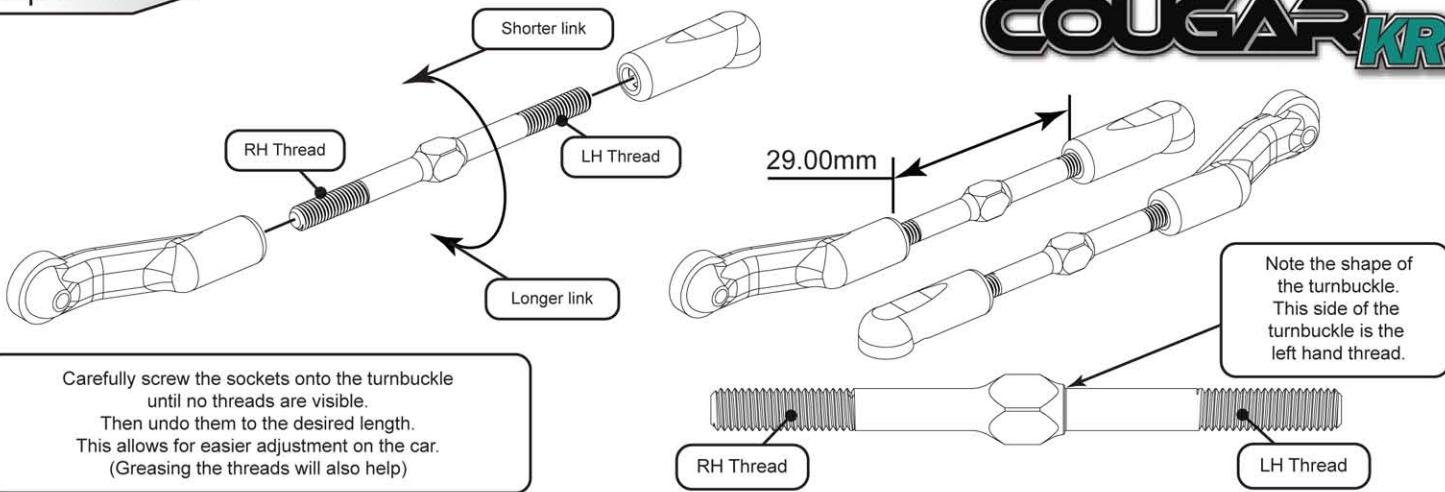
Step 16 A



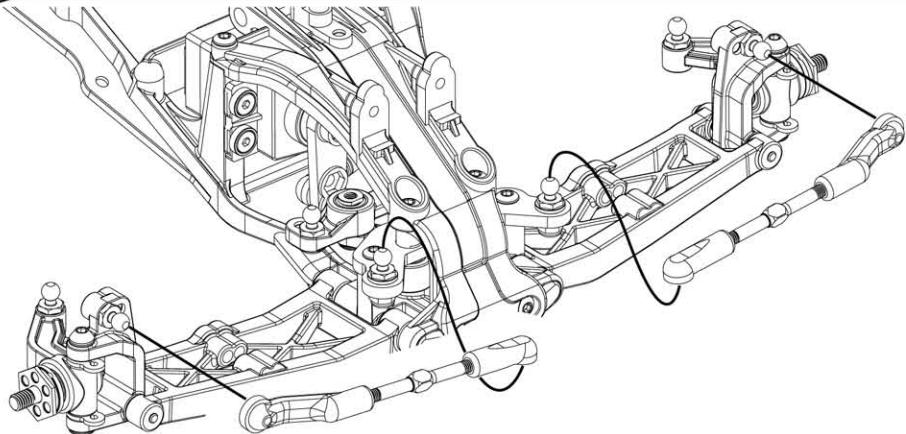
Step 16 B



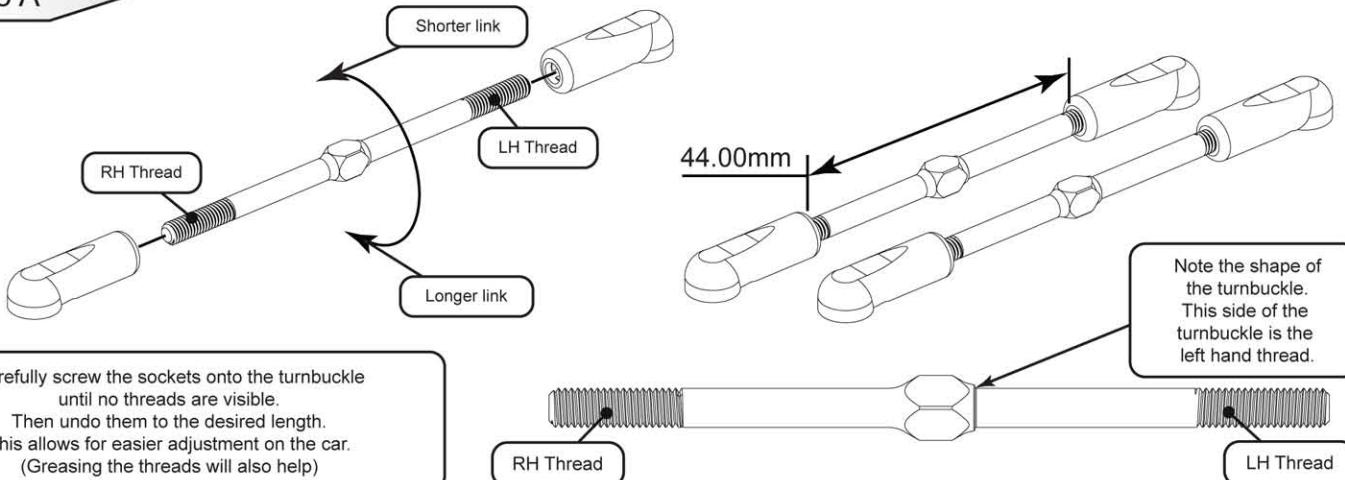
Step 17 A



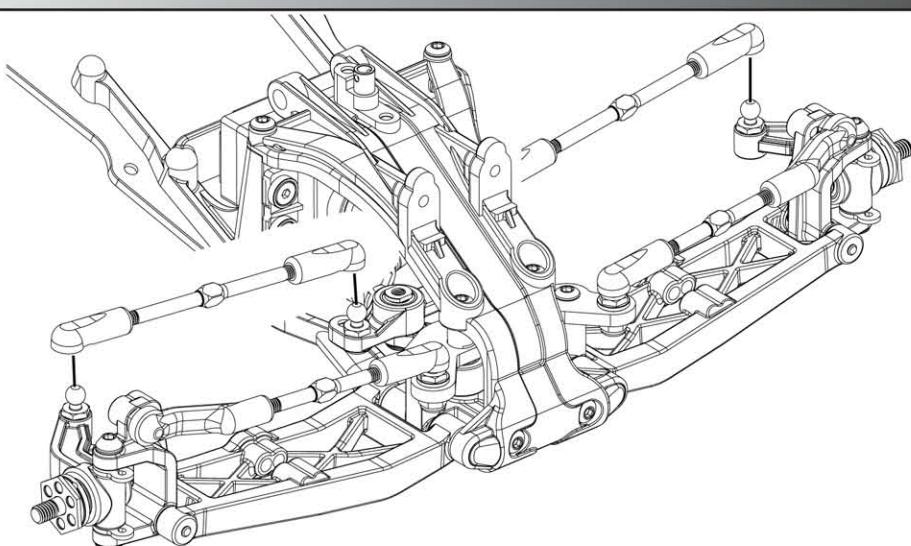
Step 17 B

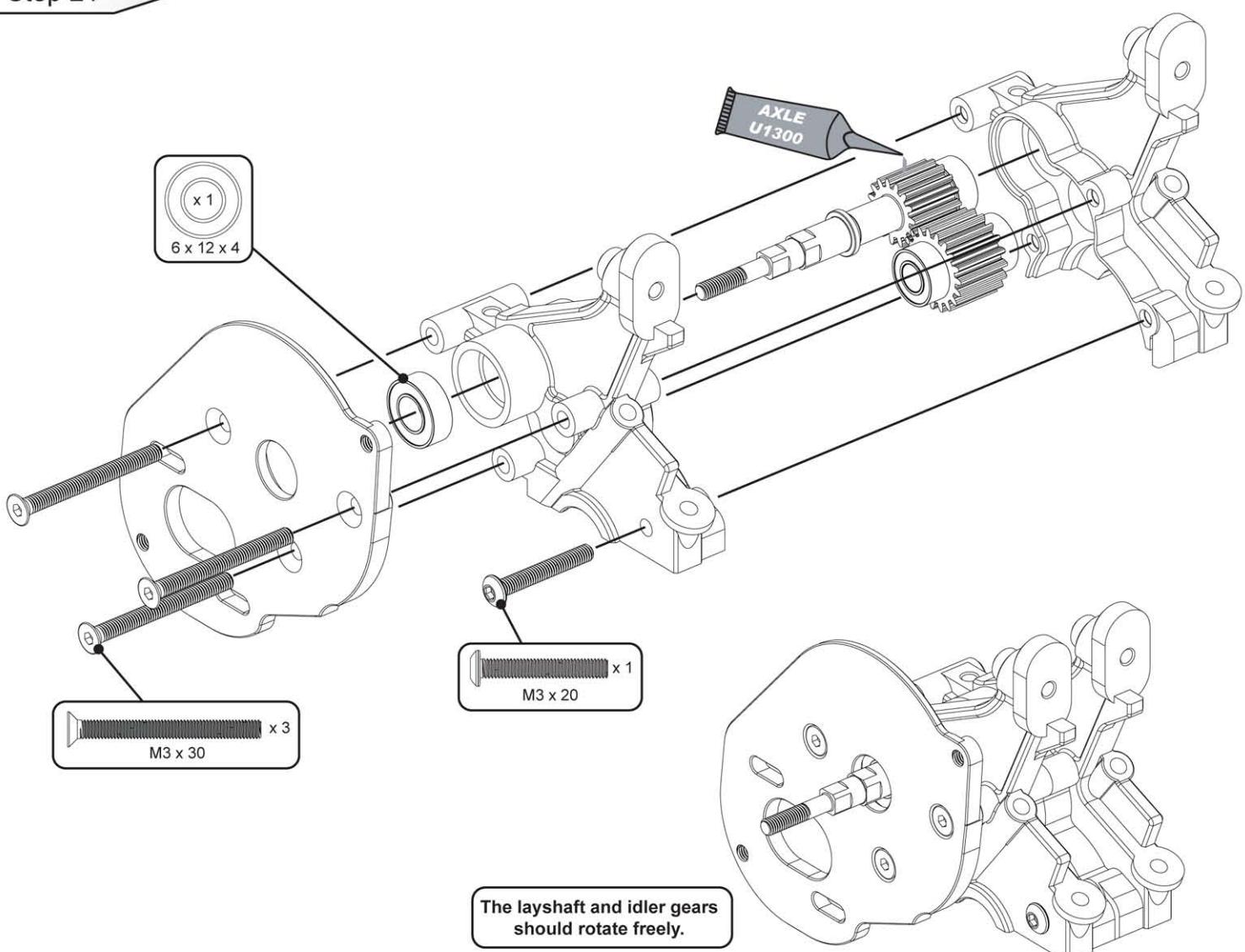
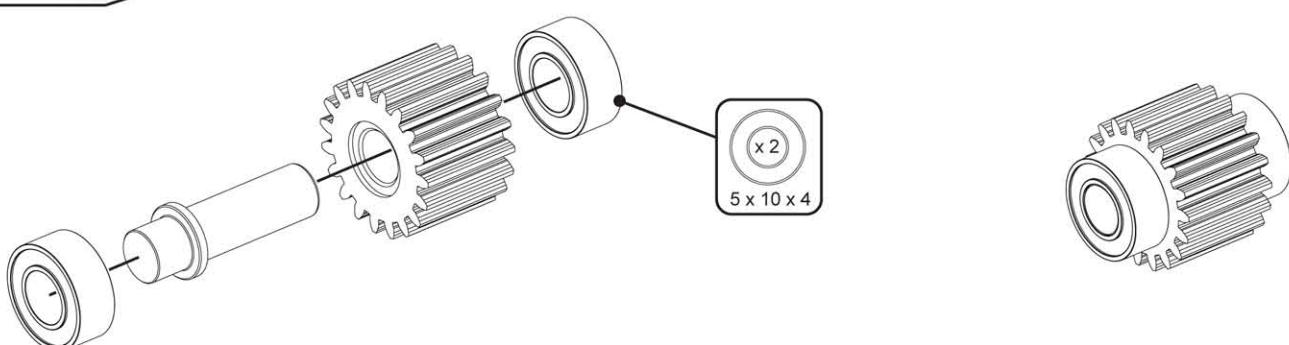
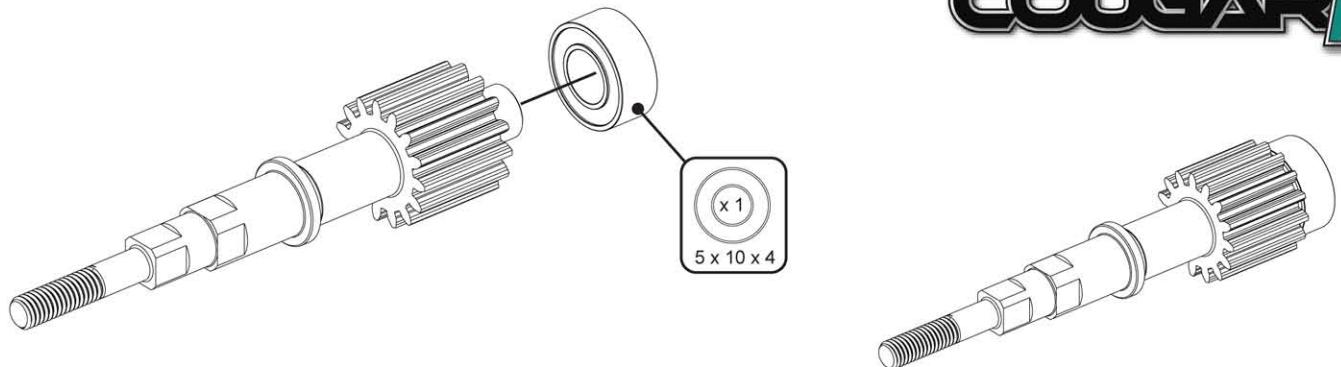


Step 18 A



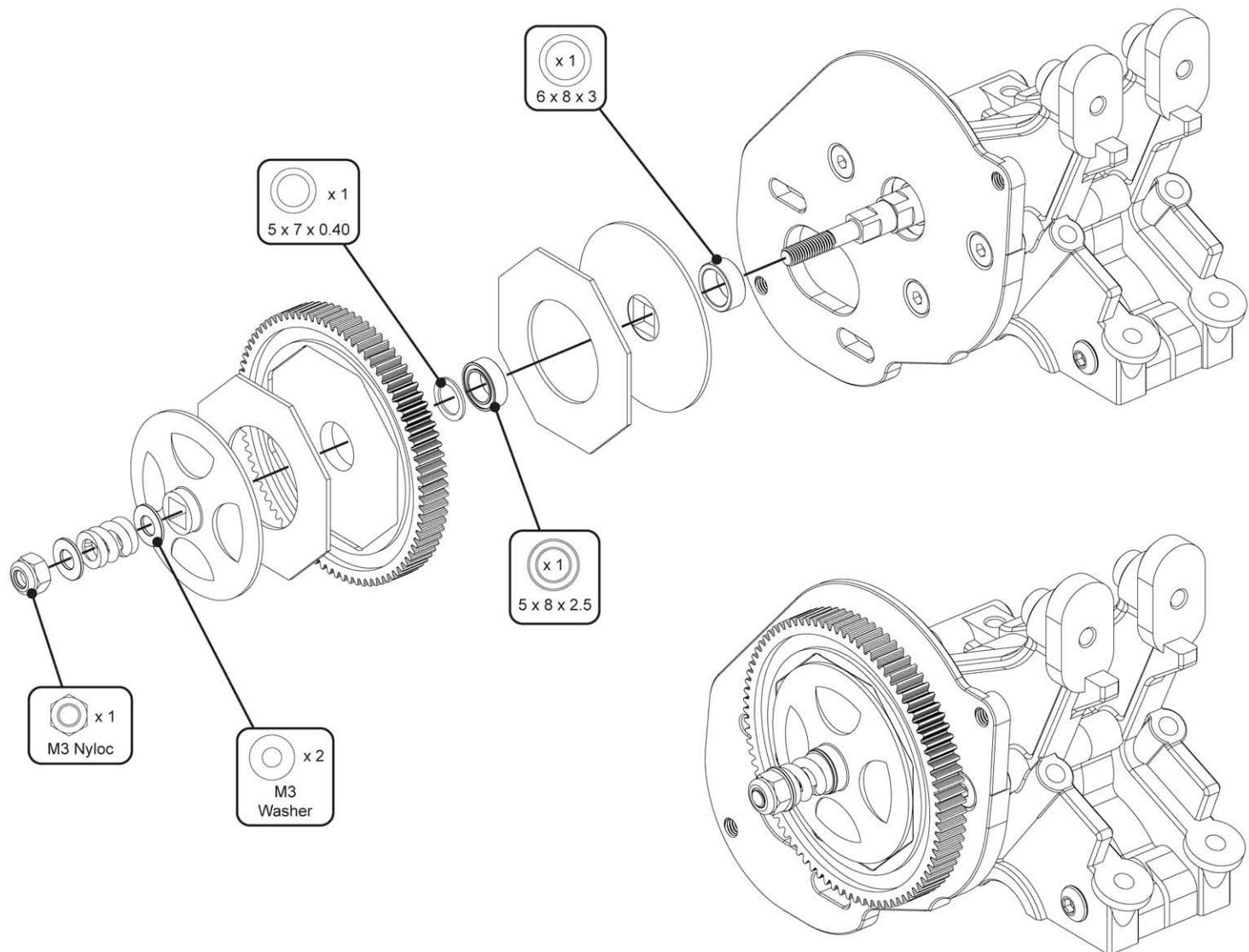
Step 18 B



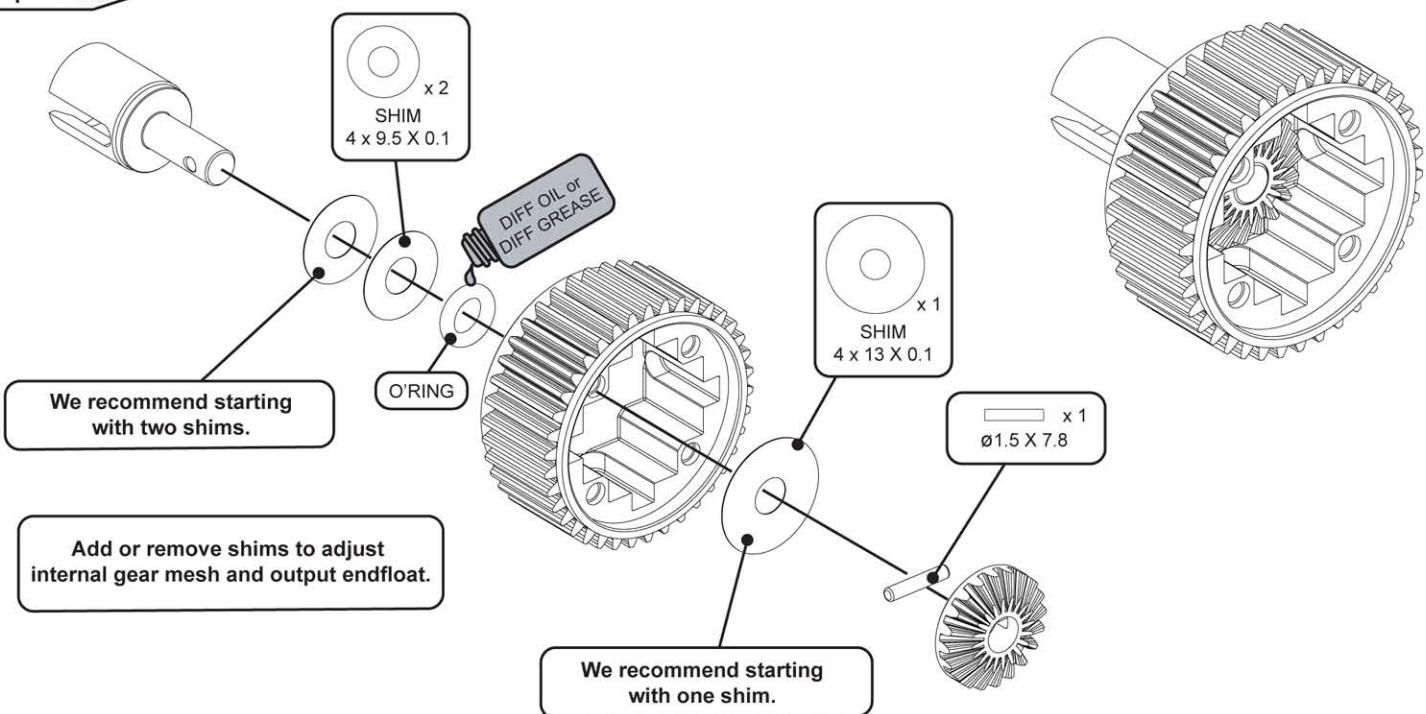


Step 22

COUGAR KR

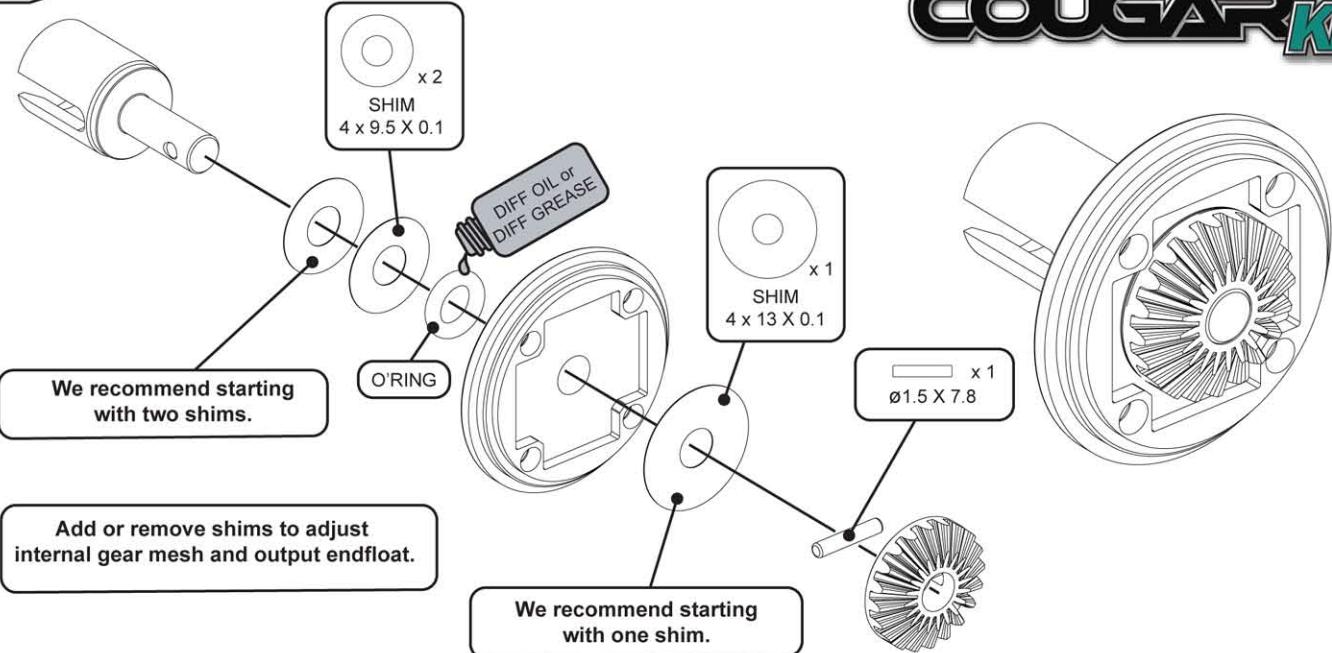


Step 23

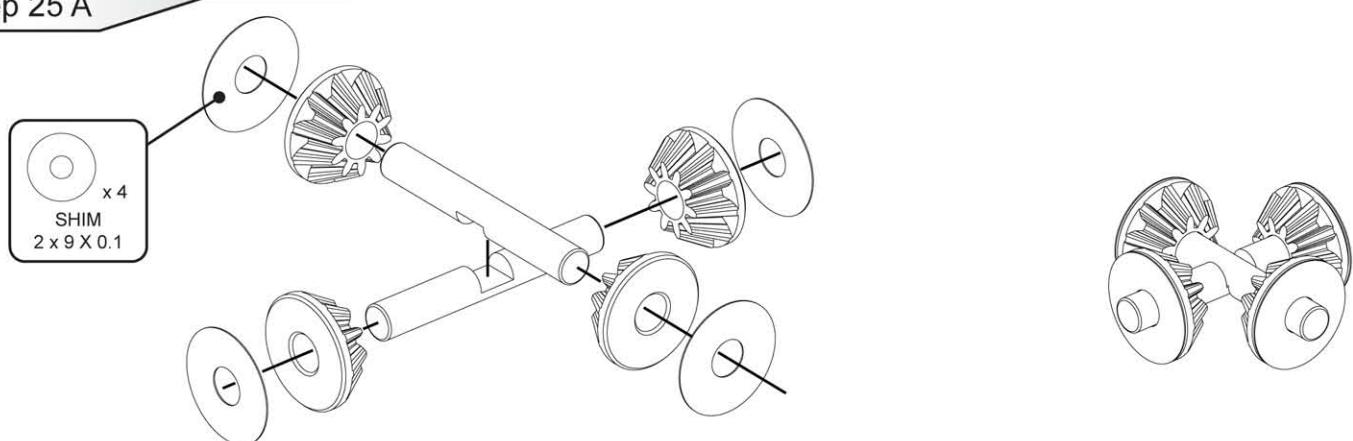


Step 24

COUGAR KR



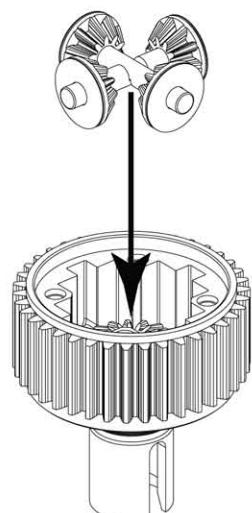
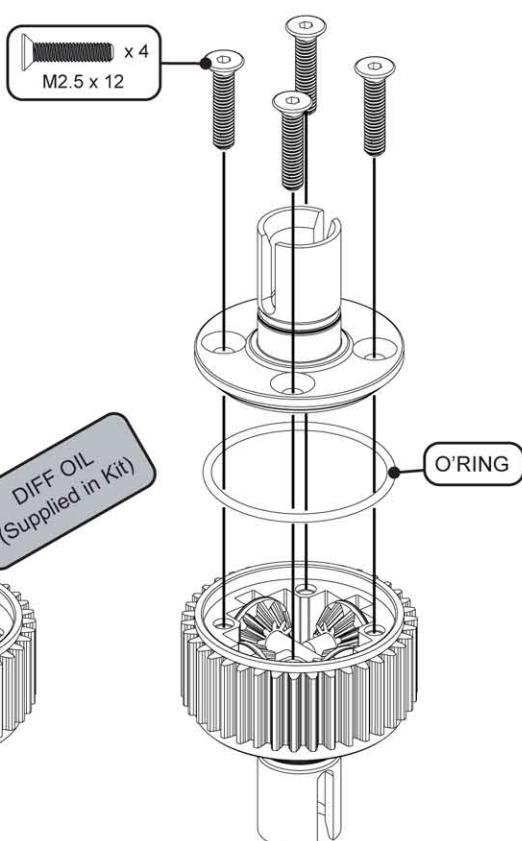
Step 25 A



Step 25 B

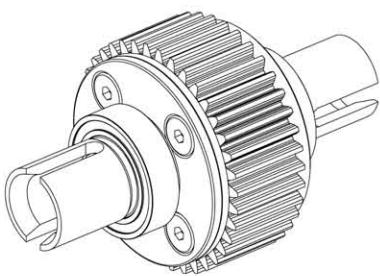
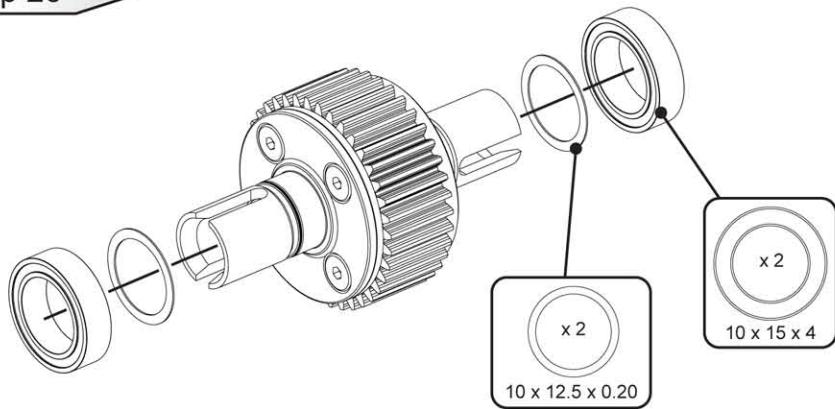
Check the internal gear mesh of the diff.

1. If too loose add an internal shim, (step 23 or 24) and remove an output shim.
(There should be three shims in total)
2. If too tight remove an internal shim, (step 23 or 24) and add an output shim.
(There should be three shims in total)

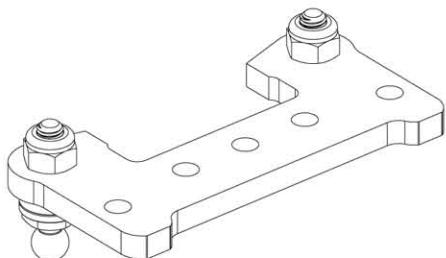
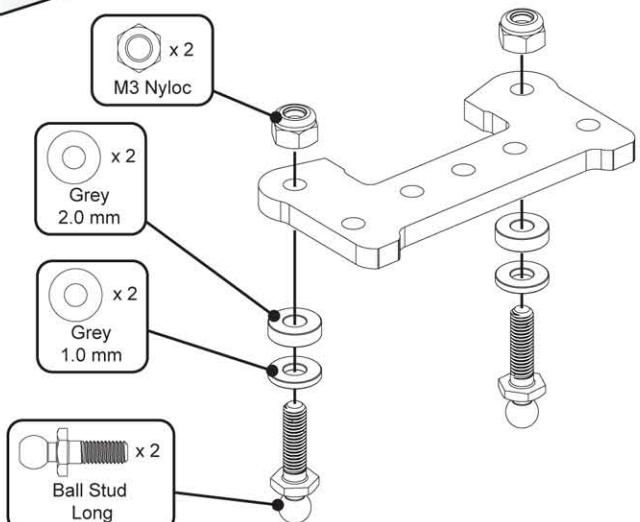


Step 26

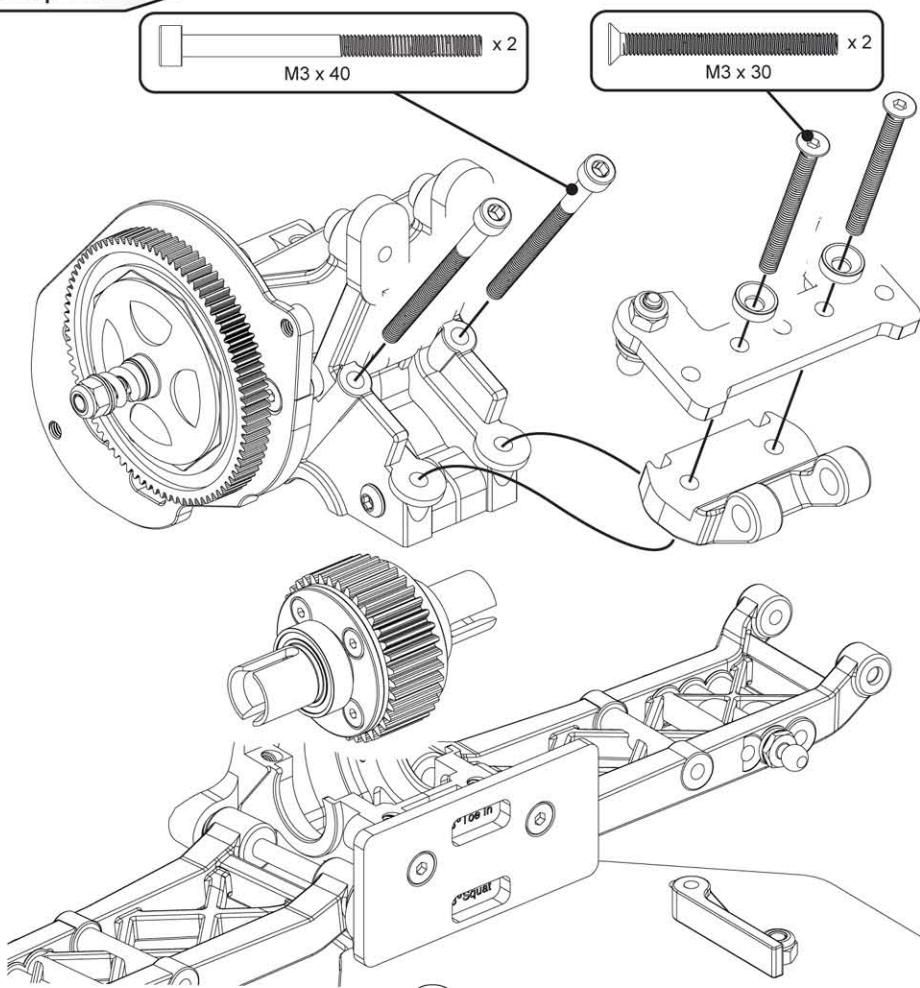
COUGAR KR



Step 27

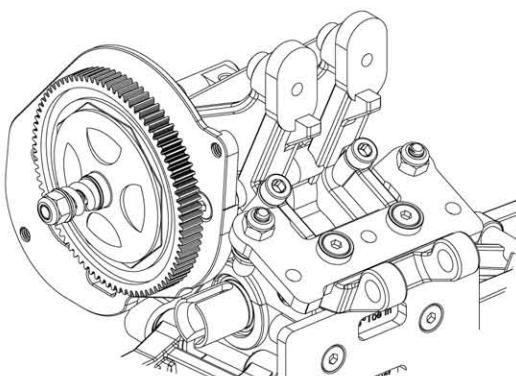


Step 28



CAUTION
Do not overtighten.

Ensure all four screws
are tightened equally.

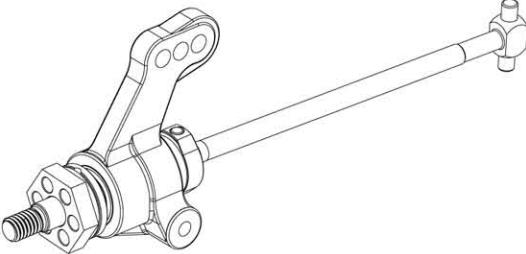
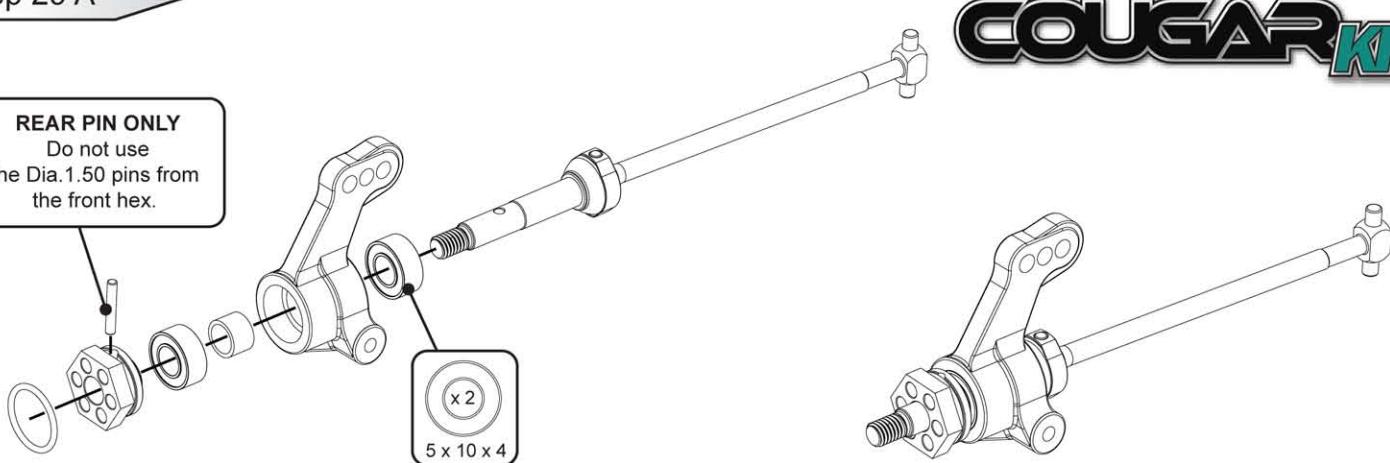


Step 29 A

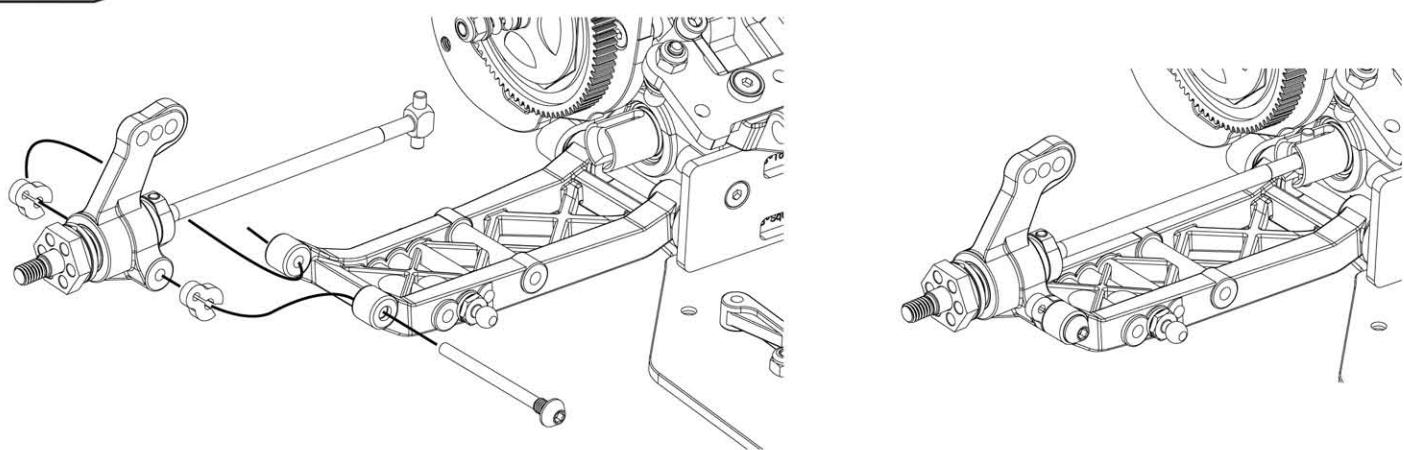
COUGAR KR

REAR PIN ONLY

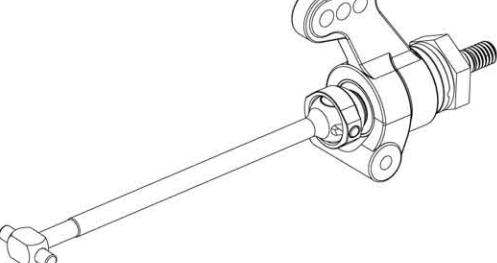
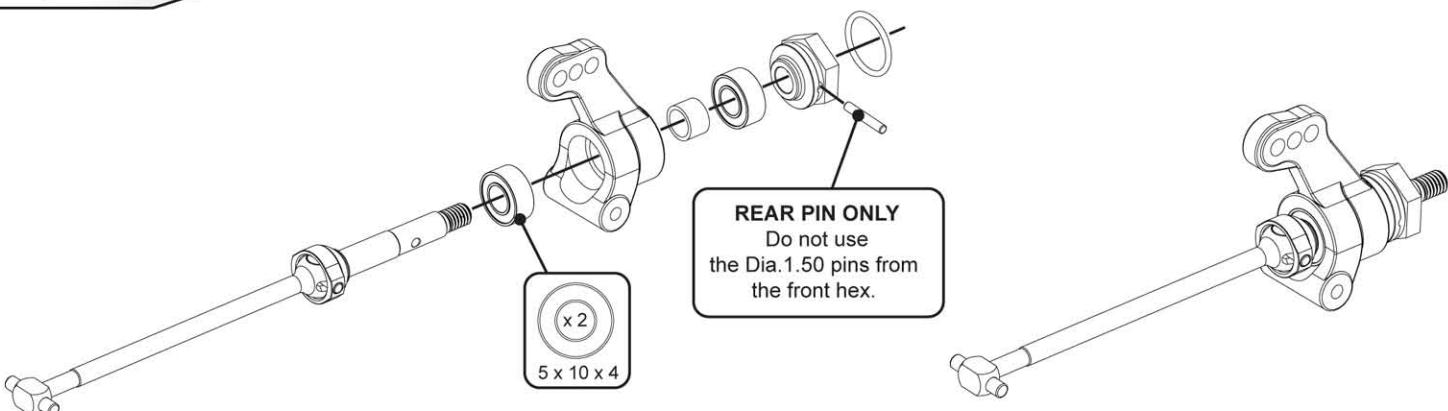
Do not use
the Dia.1.50 pins from
the front hex.



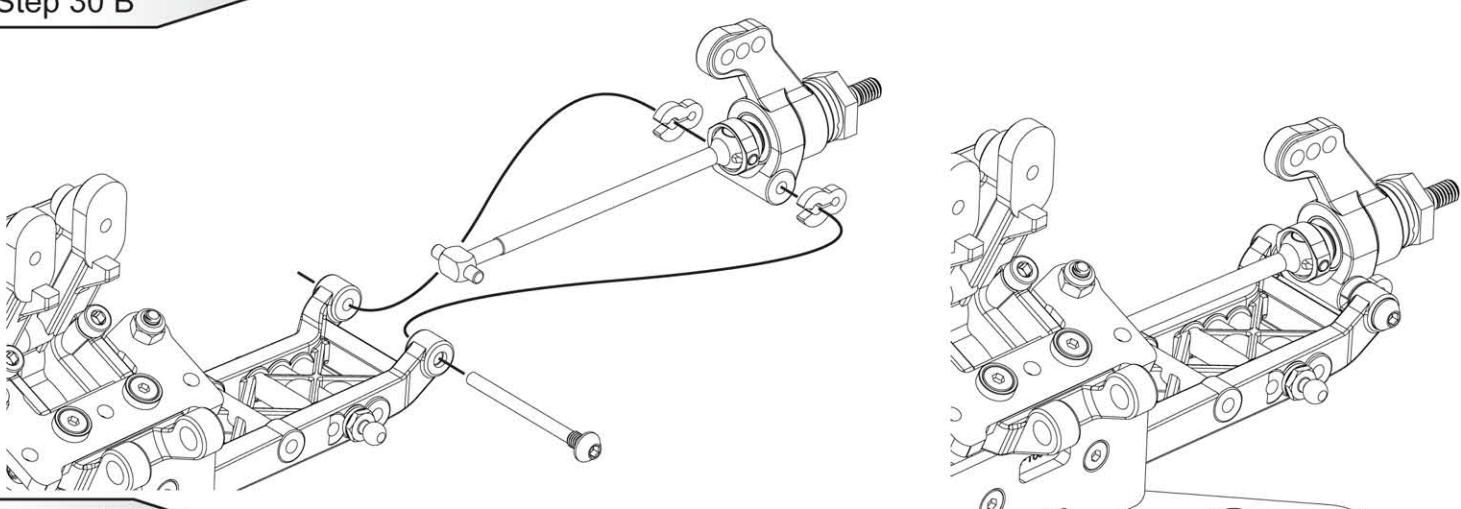
Step 29 B



Step 30 A

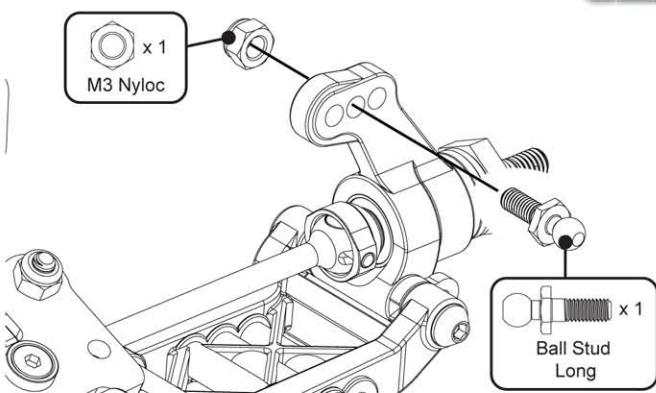
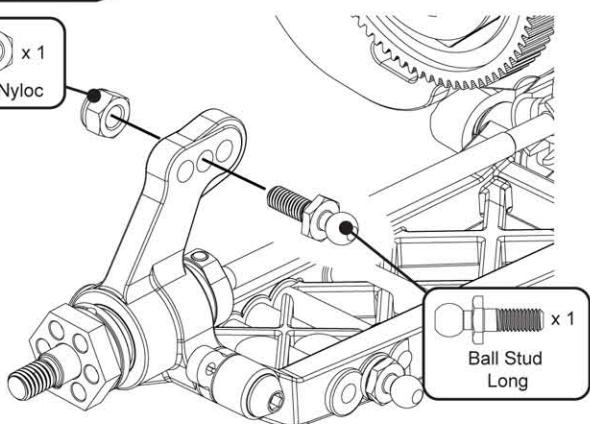


Step 30 B

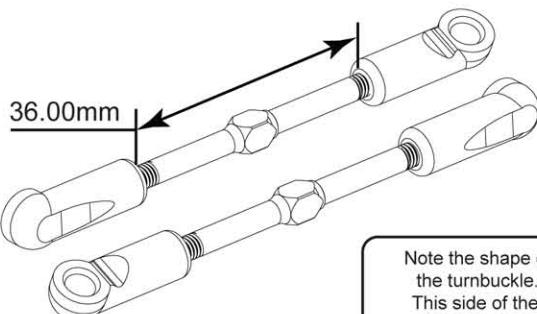
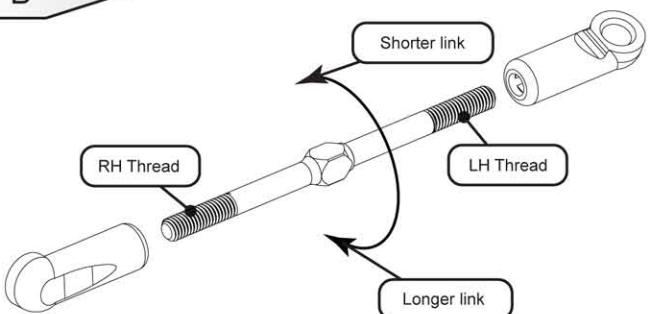


Step 31 A

COUGAR KR

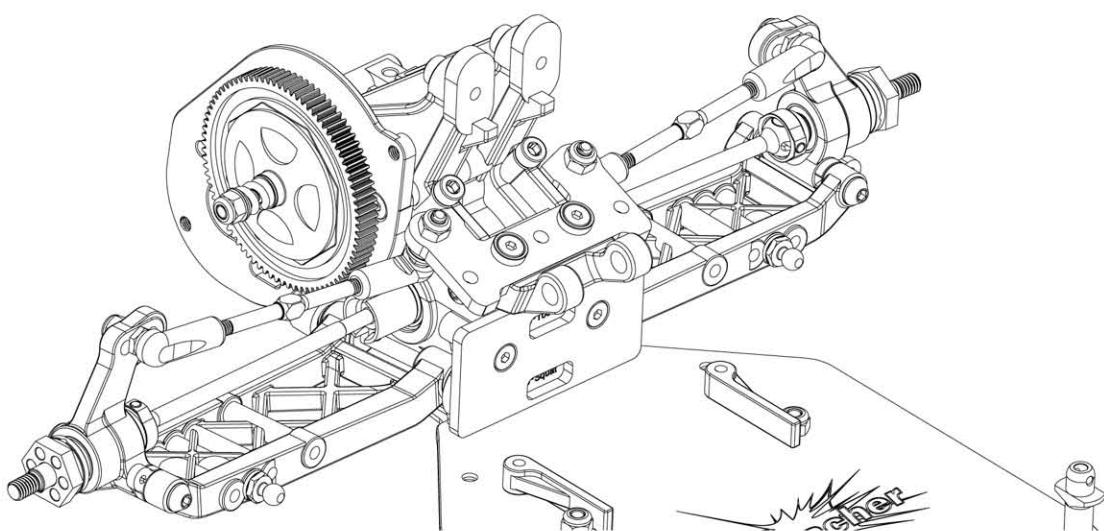
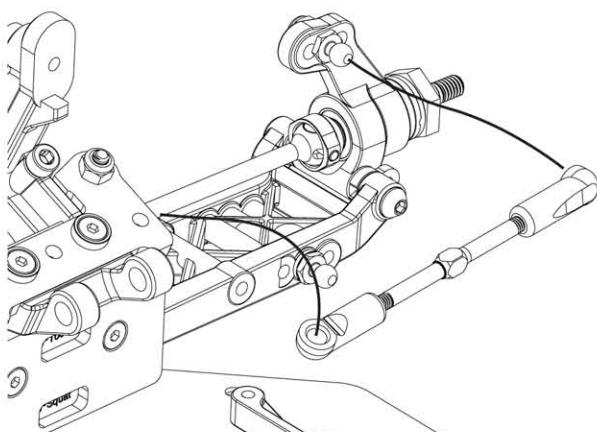
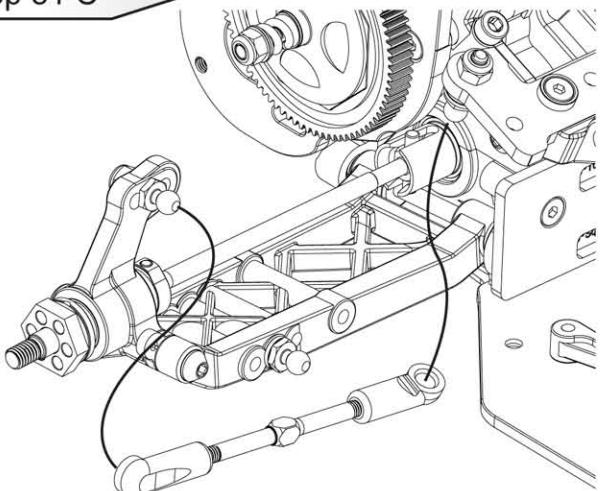


Step 31 B



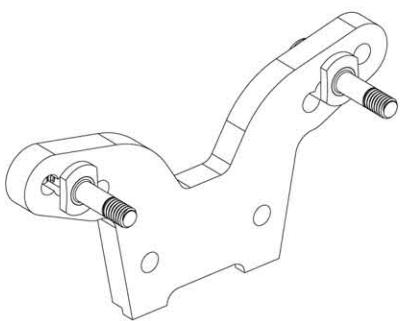
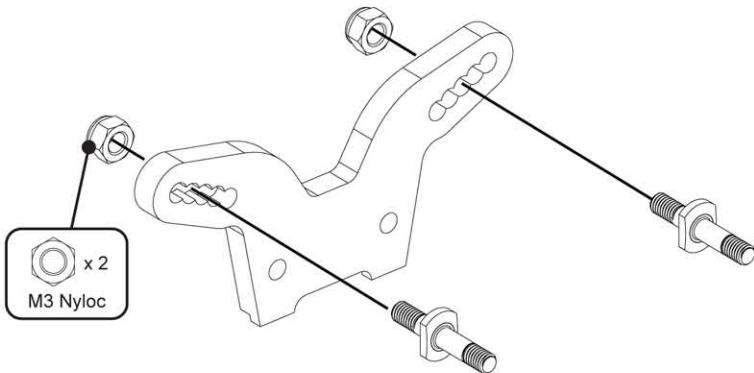
Carefully screw the sockets onto the turnbuckle until no threads are visible.
Then undo them to the desired length.
This allows for easier adjustment on the car.
(Greasing the threads will also help)

Step 31 C

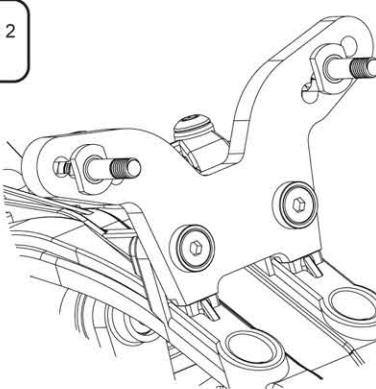
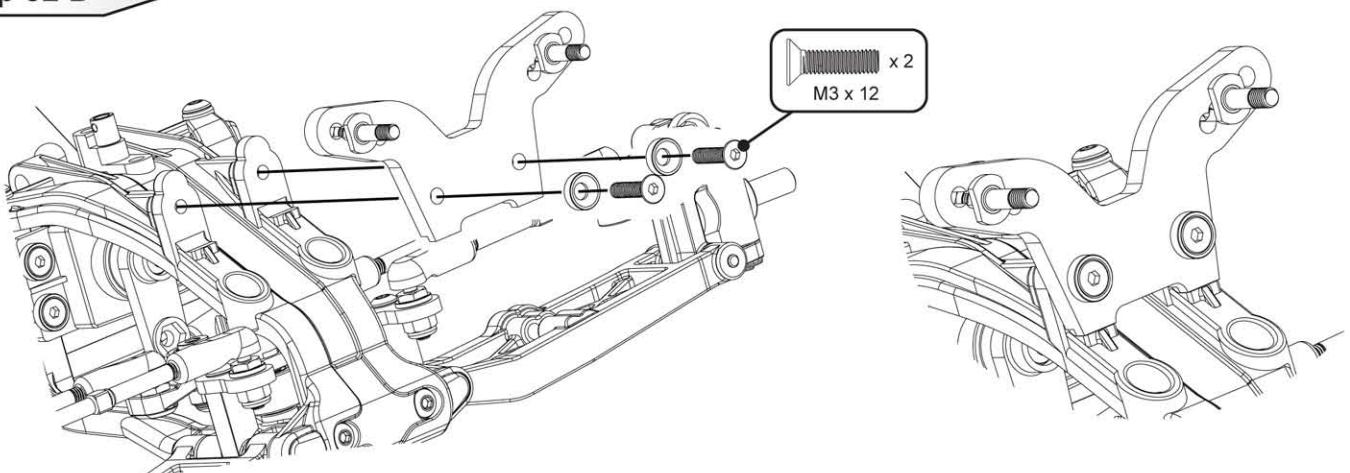


Step 32 A

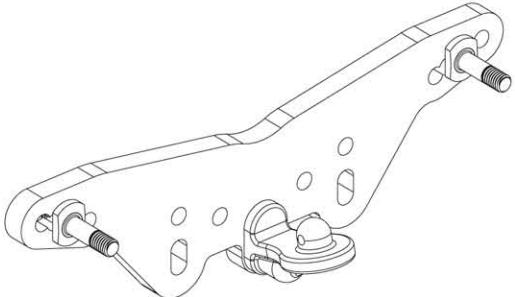
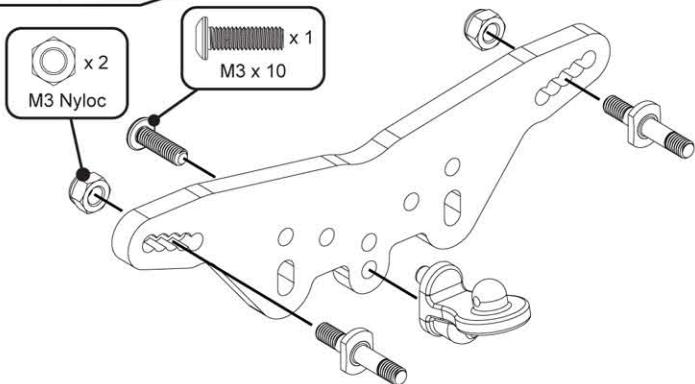
COUGAR KR



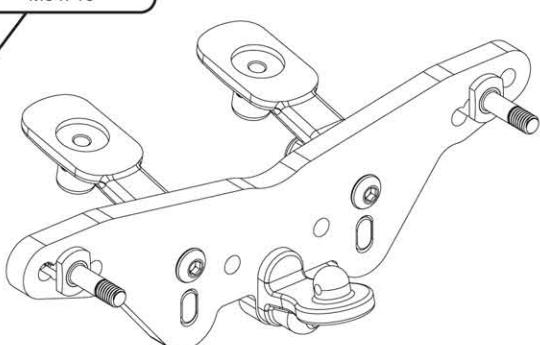
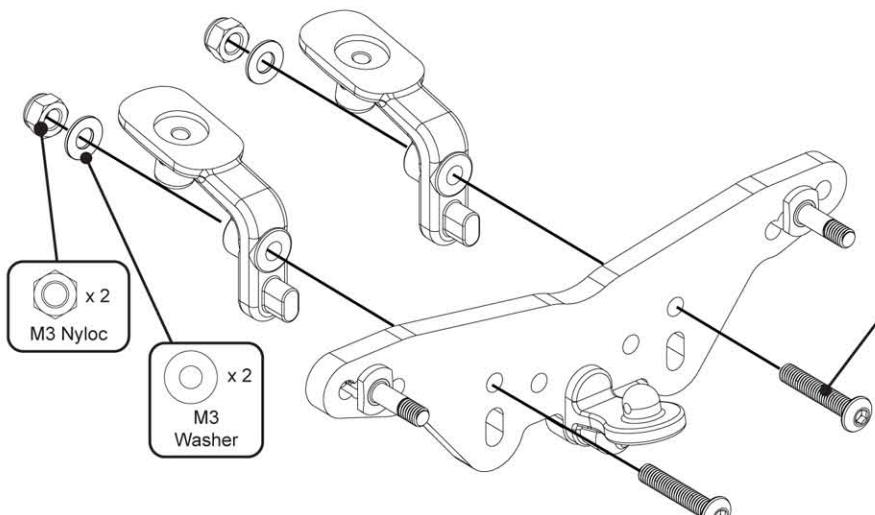
Step 32 B



Step 33

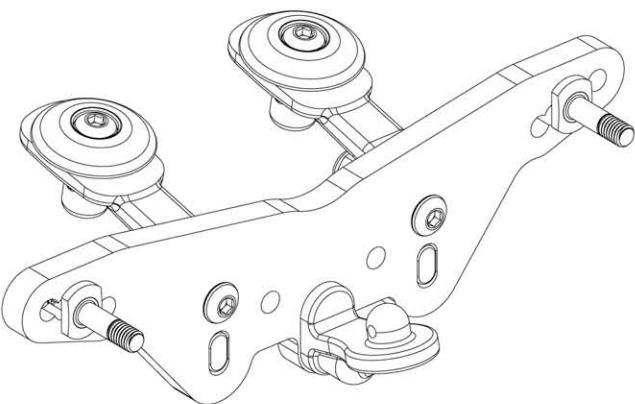
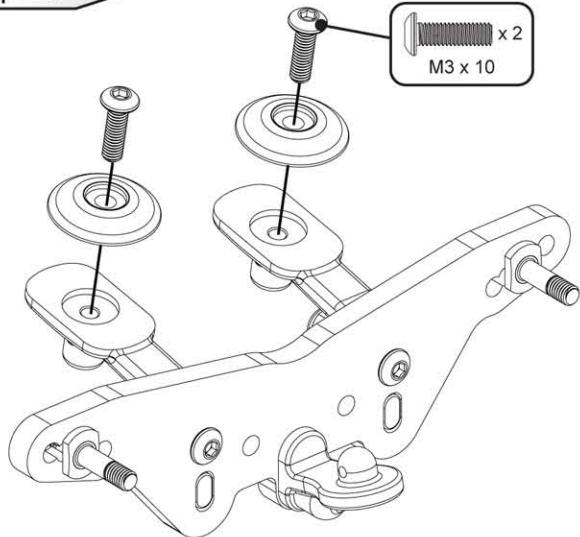


Step 34

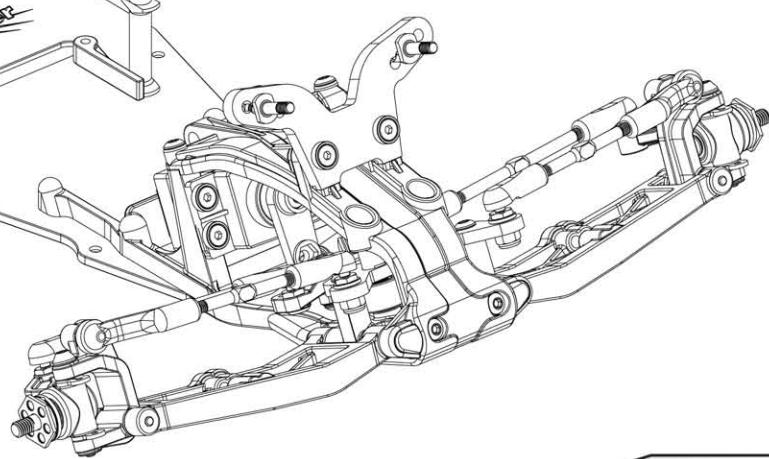
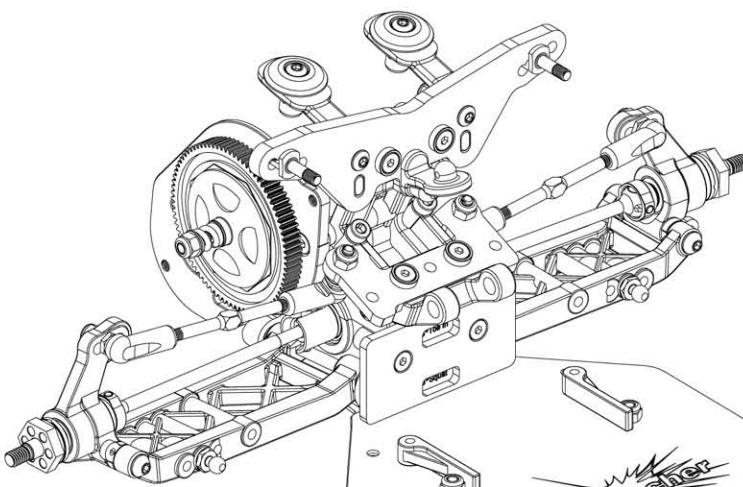
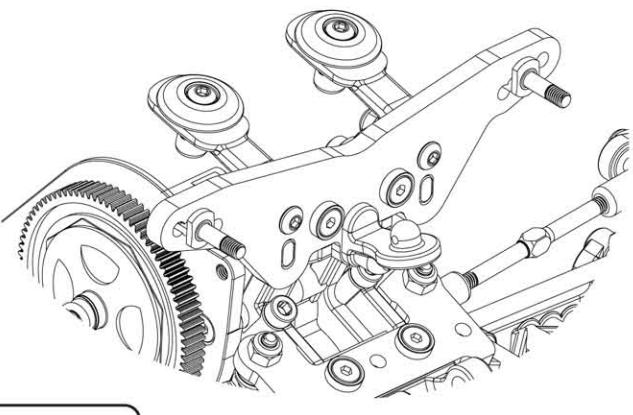
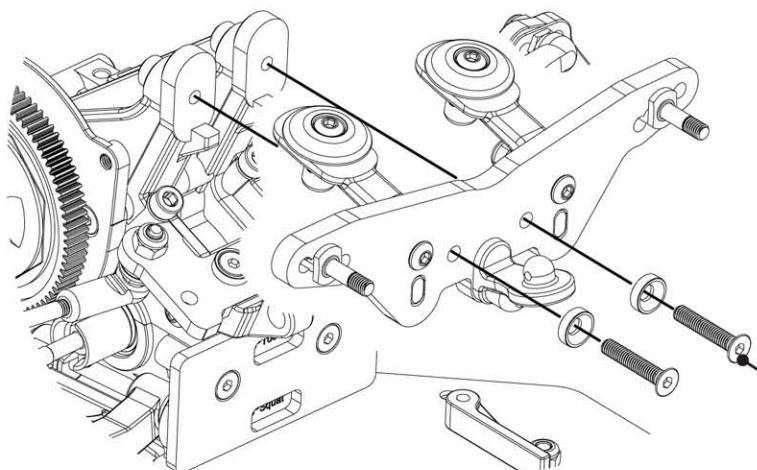


Step 35

COUGAR KR



Step 36



KITS
K139 Cougar KR - Kit
K140 Cougar KR - Assembled

BODYSHELLS AND DECALS

U4372 Decals - Cougar KR - pk3
U5113 Wing Talon Off Road - White
U5114 Wing Talon Off Road - Black
U5115 Wing Talon Off Road - Carbon Look
U5117 Talon Wing Clear - CAT K1
U5118 Bodyshell + Decal + Window Mask - Cougar KR

CHASSIS PARTS

U1042 Aerial Mount - Universal
U119 Aerial Tube - pk 4
U122 Velcro 500mmx16mm.
U2231 Servo Horns
U3690 Front Bumper - Cougar SV
U3691 Servo Spacer - Cougar SV
U4070 Alloy Chassis - Cougar SVR
U4075 Lipo Stop - Cougar SVR - pk4
U4086 Lipo positioning foam block - SVR
U4092 Side Pods - Cougar SVR
U4093 Bottom Plate - Cougar SVR
U4105 Body Mount Rear - SVR
U4145 LiPo Posts; Alloy - CAT K1 - pr
U4373 Instruction Manual - Cougar KR
U4374 C/F Top Deck (kit) - Cougar KR
U4376 Top Deck Mouldings - Cougar KR
U4377 Wing Mount Set (Low) - Cougar KR
U4378 Skid Plate - Cougar KR
U4379 Top Deck Pivot - Cougar KR

TRANSMISSION

CR024 CORE RC - Serrated M4 Steel Wheel Nut - pk4
U2761 Diff Shims; 10x12 - pk8
U3311 Axle Spacers - 2prs
U3351 Gear; 83t Spur - Slipper
U3364 Slipper Pad; PTFE Octagon - pr
U3834 Driveshaft; Pivot;Pin;Screw - Mi4CX
U3869 Slipper Set - CAT SX3 - pr
U4037 Idler Gear + Shaft - Cougar SV2
U4069 Driveshaft Assembled - Cougar SVR - pr
U4071 Motor Plate - Cougar SVR
U4072 Layshaft - Cougar SVR
U4073 Trans Lower RH - Cougar SVR
U4074 Trans Lower LH - Cougar SVR
U4076 Motor Guard - Cougar SVR
U4077 Trans Upper LH & RH - Cougar SVR
U4083 Slipper Spacer - Cougar SVR
U4087 Axle Rear - Cougar SVR
U4088 Bone Rear - Cougar SVR
U4089 Blanking Plug - Cougar SVR
U4091 Gear Cover & Plug - Cougar SVR
U4106 Slipper Spring
U4124 Speed Pack - Shims 5 x 7 x 0.4mm - pk6
U4176 Gear Diff Gear Set - CAT K1
U4352 Gear Diff - SVR
U4385 Gear Diff Rebuild Kit - Cougar KR
U4386 Gear Diff Output - Cougar KR
U4387 Gear Diff Mouldings - Cougar KR
U4388 Alloy Wheel Hex Rear - Off Road - pr
U4390 Drive Pins 1.6mm - Off Road - pk8

SUSPENSION

U2722 Ball Grippa Joints - U/Sh Stud - 4pr
U2989 Ball Grippa Sockets - pk8
U3137 Shock Mounting Post - pr
U3479 Ball Grippa Sockets-Short - pk8
U3495 Ball Studs; Ultra Short - pk 4
U3496 Ball Studs; Short - pk 4
U3497 Ball Studs; Long - pk 4
U3498 Ball Studs; X-Long - pk 4
U3706 Rod End Ball + Socket - Cougar SV2 - pr
U3708 Kwik Clip 2.4mm - Cougar SV - pk4
U3709 Radius Arms - Cougar SV
U3710 Centre Track Rod - Cougar SV
U3712 Yokes; 0 deg - Cougar SV
U3715 Pivot Pin; Screw Type 25mm - pr
U3716 Pivot Pin; Screw Type 32mm - pr
U3717 Steering Pivots - Cougar SV - pk4
U3718 Pivot Pin; 38mm - Cougar SV
U3719 Pivot Pin; 45mm - Cougar SV
U3729 Wishbone Pivot Spheres - Cougar SV - pk4
U3997 C/F Front Shock Mount - Cougar SV2
U4031 Front Body Post - Cougar SV2
U4036 Hub Carrier; Rear - Cat/Cougar SV2 - pr
U4055 Wishbones; Rear Kit - Cougar SV2
U4078 C/F Shock Mount Rear 4mm - Cougar SVR
U4090 Ball Socket; Offset - Cougar SVR - pk4

SUSPENSION Cont...

U4094 Bulkhead - Cougar SVR
U4095 Wishbones Front - Long (pair) - SVR
U4223 Turnbuckle Adjuster HTT - 45mm - pr
U4224 Turnbuckle Adjuster HTT - 60mm - pr
U4299 Turnbuckle HT - Touring 52mm - pr
U4380 Front Hub Carriers - Cougar KR - pr
U4381 Kwik Clip 2.4mm thin - Cougar KR - pk4
U4382 Front Axle - Cougar KR
U4383 Alloy Rear Strap 3Deg - Cougar KR
U4384 C/F Rear Suspension Pin Retainer - Cougar KR
U4389 Alloy Wheel Hex Front - 2WD - pr
U4391 C/F Link Mounts; Kit Fr + Rr - Cougar KR
U750 Ball Grippa Joints - Short Stud - 8pr
U851 Ball Grippa Joints - Long Stud - 8pr

BEARINGS AND BALLS

G200 ZX1 - Microlube
U1300 Axle Grease - Pot
U1301 Silicone Diff Lube - Pot
U1957 Moly Grease - Pot
U2698 Ball Bearing - 5x10x4 Red Sealed - pr
U2699 Ball Bearing - 10x15x4 Red Sealed - pr
U3075 Ball Bearing 4x8x3mm Red Sealed - pr
U3136 Ball Bearing - 5x8x2.5 - Shielded - pr
U3871 Ball Bearing 5x9x3 Red Seal - pr
U4084 Ball Bearing - 6x12x4 Red Sealed - pr

BIG BORE SHOCKS

U3662 Big Bore Shock Body; Med - pr
U3663 Big Bore Shock Body; Long - pr
U3667 Big Bore Shock Seal Rebuild Kit - Off Rd - pr
U3668 Big Bore Shock Rods; Med - pr
U3669 Big Bore Shock Rods; Long - pr
U3670 Big Bore Shock 2 Hole Pistons - pr
U3671 Big Bore Shock 4 Hole Pistons - pr
U3672 Big Bore Shock 6 Hole Pistons - pr
U3770 Big Bore Rounded Pistons 3 Hole - pr
U3771 Big Bore Rounded Pistons 5 Hole - pr
U3937 Shock Mouldings
U4110 Off Road Shock O-Ring 1/8 Silicone - pk8
U4369 Big Bore Seal Pack Housing (Black) - pr
U4370 Big Bore Shock cap (Black) - pr
U4371 Big Bore Shock Adjusting Collar (Black) - pr
U4392 Big Bore Shocks; Front - Assembled - pr
U4393 Big Bore Shocks; Rear - Assembled - pr

CORE BIG BORE SPRINGS

CR177 CORE RC Big Bore Spring Tuning Set; Med - 5pr
CR178 CORE RC Big Bore Spring Tuning Set; Long - 5pr
CR179 CORE RC Big Bore Spring; Med - 2.8 - pr
CR180 CORE RC Big Bore Spring; Med - 3.1 - pr
CR181 CORE RC Big Bore Spring; Med - 3.4 - pr
CR182 CORE RC Big Bore Spring; Med - 3.7 - pr
CR183 CORE RC Big Bore Spring; Med - 4.0 - pr
CR184 CORE RC Big Bore Spring; Long - 1.8 - pr
CR185 CORE RC Big Bore Spring; Long - 2.0 - pr
CR186 CORE RC Big Bore Spring; Long - 2.2 - pr
CR187 CORE RC Big Bore Spring; Long - 2.4 - pr
CR188 CORE RC Big Bore Spring; Long - 2.6 - pr
CR190 CORE RC Spring Seat - Big Bore to 13mm - pk4
CR191 CORE RC Spring Seat - Big Bore to 14mm - pk4

BIG BORE SPRINGS

U3673 Big Bore Spring Tuning Set; Med - 7pr
U3674 Big Bore Spring Tuning Set; Long - 6pr
U3675 Big Bore Spring; Med - 2.0 - pr
U3676 Big Bore Spring; Med - 2.5 - pr
U3677 Big Bore Spring; Med - 3.0 - pr
U3678 Big Bore Spring; Med - 3.5 - pr
U3679 Big Bore Spring; Med - 4.0 - pr
U3680 Big Bore Spring; Med - 4.5 - pr
U3681 Big Bore Spring; Med - 5.0 - pr
U3682 Big Bore Spring; Long - 1.6 - pr
U3683 Big Bore Spring; Long - 2.0 - pr
U3684 Big Bore Spring; Long - 2.5 - pr
U3685 Big Bore Spring; Long - 3.0 - pr
U3686 Big Bore Spring; Long - 3.5 - pr
U3687 Big Bore Spring; Long - 4.0 - pr

SHOCK AND DIFF OIL

CR200 CORE RC Silicone Oil - 100cSt - 60ml
CR201 CORE RC Silicone Oil - 150cSt - 60ml
CR202 CORE RC Silicone Oil - 200cSt - 60ml
CR203 CORE RC Silicone Oil - 250cSt - 60ml
CR204 CORE RC Silicone Oil - 300cSt - 60ml
CR205 CORE RC Silicone Oil - 350cSt - 60ml
CR206 CORE RC Silicone Oil - 400cSt - 60ml
CR207 CORE RC Silicone Oil - 450cSt - 60ml
CR208 CORE RC Silicone Oil - 500cSt - 60ml

SHOCK AND DIFF OIL Cont....

CR209 CORE RC Silicone Oil - 550cSt - 60ml
 CR210 CORE RC Silicone Oil - 600cSt - 60ml
 CR211 CORE RC Silicone Oil - 700cSt - 60ml
 CR212 CORE RC Silicone Oil - 800cSt - 60ml
 CR213 CORE RC Silicone Oil - 900cSt - 60ml
 CR214 CORE RC Silicone Oil - 1000cSt - 60ml
 CR215 CORE RC Silicone Oil - 1300cSt - 60ml
 CR216 CORE RC Silicone Oil - 2000cSt - 60ml
 CR217 CORE RC Silicone Oil - 3000cSt - 60ml
 CR218 CORE RC Silicone Oil - 4000cSt - 60ml
 CR219 CORE RC Silicone Oil - 5000cSt - 60ml
 CR220 CORE RC Silicone Oil - 6000cSt - 60ml
 CR221 CORE RC Silicone Oil - 7000cSt - 60ml
 CR222 CORE RC Silicone Oil - 10000cSt - 60ml
 CR223 CORE RC Silicone Oil - 20000cSt - 60ml
 CR224 CORE RC Silicone Oil - 30000cSt - 60ml
 CR225 CORE RC Silicone Oil - 40000cSt - 60ml
 CR226 CORE RC Silicone Oil - 50000cSt - 60ml
 CR227 CORE RC Silicone Oil - 100000cSt - 60ml
 CR228 CORE RC Silicone Oil - 300000cSt - 60ml
 CR229 CORE RC Silicone Oil - 120000cSt - 60ml
 CR230 CORE RC Silicone Oil - 150000cSt - 60ml
 G010 Pure Silicone Shock Oil - 10w
 G015 Pure Silicone Shock Oil - 15w
 G020 Pure Silicone Shock Oil - 20w
 G025 Pure Silicone Shock Oil - 25w
 G030 Pure Silicone Shock Oil - 30w
 G035 Pure Silicone Shock Oil - 35w
 G040 Pure Silicone Shock Oil - 40w
 G045 Pure Silicone Shock Oil - 45w
 G050 Pure Silicone Shock Oil - 50w

SPEED PACKS

U1544 SPEED PACK - Short M3; Cap Hd
 U1545 SPEED PACK - M3 Cap Hd 16;20mm
 U1546 SPEED PACK - M3 Cap Hd 25;30;35;40;45mm
 U1547 SPEED PACK - M3 Nuts
 U1548 SPEED PACK - M3 Washers
 U1550 SPEED PACK - Socket Wrenches - pk3
 U1551 SPEED PACK - E Clips - 8pcs
 U1552 SPEED PACK - R Clips
 U1606 SPEED PACK - Servo Tape - 30pk
 U1633 SPEED PACK - Small Pins
 U1960 SPEED PACK - O-Rings; Various
 U2128 SPEED PACK - Grub-Set Screws M3 M4
 U2356 SPEED PACK - M3x16-30 Csk Screws - pk12
 U2760 SPEED PACK - M3 Button Hd; 4 to 20
 U2856 SPEED PACK - Sticky Cable Clips - pk10
 U2858 SPEED PACK - Alloy M3x6 Spacers - 0.5, 1, 2 & 3mm (Purple) - 16pc
 U2988 SPEED PACK - M3 Csk Washers - Purple Alloy - pk10
 U3021 SPEED PACK - M3x6 Csk Allen Hi-T
 U3022 SPEED PACK - M3x8 Csk Allen Hi-T
 U3023 SPEED PACK - M3x10 Csk Allen Hi-T
 U3024 SPEED PACK - M3x12 Csk - M3 x 10 Button Screws
 U3131 SPEED PACK - Alloy Spacers M3x7mm 0.5;1;2mm - pk18
 U3572 SPEED PACK - M3x14 Grub Srew - pk4
 U3754 SPEED PACK - M2.5x10 Csk Hd - pk8
 U4155 SPEED PACK - M3 Csk Washers - Black Alloy - pk10
 U4210 SPEED PACK - Pinion Grub Screw Set - pk10
 U4230 SPEED PACK - M3 x 6mm Alloy Button Head Screws - pk10
 U4231 SPEED PACK - M3 x 8mm Alloy Button Head Screws - pk10
 U4232 SPEED PACK - M3 x 10mm Alloy Button Head Screws - pk10
 U4233 SPEED PACK - M3 x 12mm Alloy Button Head Screws - pk10
 U4234 SPEED PACK - M3 x 6mm Alloy Csk Screws - pk10
 U4235 SPEED PACK - M3 x 8mm Alloy Csk Screws - pk10
 U4236 SPEED PACK - M3 x 10mm Alloy Csk Screws - pk10
 U4237 SPEED PACK - M3 x 12mm Alloy Csk Screws - pk10
 U4238 SPEED PACK - M3 x 16mm Alloy Csk Screws - pk10
 U4241 SPEED PACK - M3 Alloy Nyloc Nuts - Black - pk10
 U4314 SPEED PACK - Alloy Black Washers - Mi5 - 16pc
 U4351 SPEED PACK - Shims 3.2x6x0.1mm - pk8

SPEED SECRET - OPTION PARTS

CR035 CORE RC - Serrated Alloy M4 Nuts; Blue - pk4
 CR036 CORE RC - Serrated Alloy M4 Nuts; Purple - pk4
 CR043 CORE RC - Silver X-Weights - 16pc
 CR058 CORE RC - Black X-Weights - 16pc
 CR192 Alloy Servo Arm 25T - Futaba Short (Black)
 CR193 Alloy Servo Arm 23T - Sanwa Short (Black)
 CR196 CORE RC - Serrated Alloy M4 Nuts; Black - pk4
 MR-CSOFFROAD MR33 Car Stand Off Road
 S500B Schumacher BANNER 6x3ft
 U1573 Titanium Turnbuckle; purple - 53mm - pr
 U1574 Titanium Turnbuckle; purple - 60mm - pr
 U1954 Pro - Thrust Bearing
 U2566 Titanium Turnbuckle - 45mm - pr
 U2999 Small Bore Shock Seal Rebuild Kit
 U3019 Diff Balls; Ceramic Nitride 2.5mm - pk12
 U3317 Small Bore Shock Body (Front) - Off Road - pr
 U3318 Small Bore Shock Body (Rear) - Off Road - pr
 U3319 Small Bore Piston 2 Hole (CNC) - Off Road - pr

SPEED SECRET - OPTION PARTS Cont....

U3320 Small Bore Piston 3 Hole (CNC) - Off Road - pr
 U3321 Small Bore Shock Rod (Front) - Off Road - pr
 U3322 Small Bore Shock Rod (Rear) - Off Road - pr
 U3323 Small Bore Shock Seal Hsg (Black) - Off Road - pr
 U3324 Small Bore Shock Top Cap (Purple) - Off Road - pr
 U3348 Gear; CNC 80t Spur - Slipper
 U3349 Gear; CNC 81t Spur - Slipper
 U3350 Gear; CNC 82t Spur - Slipper
 U3499 Roll Bar Blocks - Mi4 - pk4
 U3605 Alloy Rear Hubs; 1 deg - CAT/Cougar SV - pr
 U3611 Alloy Spring Seat - All shock types - pr
 U3664 Big Bore Shock Cap (Purple); Off Road - pr
 U3665 Big Bore Shock Seal Housing (Purple) - pr
 U3666 Big Bore Shock Adjusting Collar (Gold) - pr
 U3740 Diff Washers; 18mm - Cougar SV
 U3758 Yokes; 5 deg - Cougar SV
 U3782 HD Diaphragm - pk4
 U3790 Gear; CNC 76T Spur - Slipper
 U3827 C/F Lowered Front Shock Mount 4mm - Cougar
 U3855 Ball Bearing 5x10x3 Open - pr
 U4004 Diff Gear; 38T CNC - Cougar SV2
 U4005 Diff Output; Female - Cougar SV2
 U4006 Diff Output; Male - Cougar SV2
 U4007 Diff; Assembled Pro Spec - Cougar SV2
 U4025 Driveshaft UJ - Cougar SV2 - pr
 U4040 Ball Diff Screw Set Cougar SV2
 U4054 Wishbones Rear Medium - Cougar SV2
 U4081 C/F Strap 0deg antisquat - 3deg Toe-in - SVR
 U4085 Rear Anti Roll Bar Set - Cougar SVR
 U4096 C/F Strap 1deg antisquat - 3deg Toe-in - SVR
 U4097 C/F Strap 2deg antisquat - 3deg Toe-in - SVR
 U4098 Wishbones Front - Long Med Flex - SVR - pr
 U4099 C/F Chassis 2.5mm soft +6mm - SVR
 U4125 Small Bore Taper Piston 1.2mm - White - pr
 U4126 Small Bore Taper Piston 1.3mm - Black - pr
 U4127 Small Bore Taper Piston 1.4mm - Red - pr
 U4130 Vented Shock Caps - Small Bore - pr
 U4149 Small Bore Adjuster (Big Bore Springs) - CAT K1 (pr)
 U4150 Small Bore Shock Seal Hsg (Black) - Off Road - pr
 U4151 Small Bore Shock Top Cap (Black) - Off Road pr
 U4152 Small Bore Shocks (Front) - Assembled
 U4153 Small Bore Shocks (Rear) - Assembled
 U4209 Vented Shock Caps - Big Bore - pr
 U4211 C/F Strap 0deg antisquat - 2deg Toe-In - SVR
 U4212 C/F Strap 1deg antisquat - 2deg Toe-In - SVR
 U4213 C/F Strap 2deg antisquat - 2deg Toe-In - SVR
 U4214 C/F Strap 3deg antisquat - 2deg Toe-In - SVR
 U4226 Gear; CNC 71T Spur - Slipper
 U4228 Alloy Yokes (Black) - 2WD - 5deg - Cougar
 U4273 Pro Ball Stud Ultra Short - pk4
 U4274 Pro Ball Stud Short - pk4
 U4275 Pro Ball Stud Long - pk4
 U4285 Pro Shock Seal Blue - On Road - pk8
 U4317 Wide Track Conversion - Cougar SV2/SVR
 U4375 C/F Top Deck (+6mm) - Cougar KR
 U4394 C/F Link Mount Options; Fr + Rr Cougar KR Set5

1-10 BUGGY WHEELS

U4365 Wheel Hex Front - (black) - Off Road - pr
 U4366 Wheel Hex Front - (white) - Off Road - pr
 U4367 Wheel Hex Front - (black) - 2wd - pr
 U4368 Wheel Hex Front - (white) - 2wd - pr

1-10 BUGGY OFF ROAD TYRES

CR143 Multi Bow; 1/10 Off Rd Rear
 CR144 Multi Bow; 1/10 Off Rd 4WD Front
 CR145 Multi Block; 1/10 Off Rd Rear
 CR146 Multi Block; 1/10 Off Rd 4WD Front
 T650 Full Spike - Rear Tyres - Soft CAT (pr)
 T652 Full Spike - Front Tyres - Soft CAT (pr)
 T692 Block - Rear Tyres - Blue - CAT (pr)
 T693 Block - Front Tyres - Blue - CAT (pr)
 U6515 Mini Spike 2; Front Tyres - Green - 2.2 (pr)
 U6516 Mini Spike 2; Rear Tyres - Green - 2.2 (pr)
 U6517 Mini Spike 2; Front Tyres - Blue - 2.2 (pr)
 U6518 Mini Spike 2; Rear Tyres - Blue - 2.2 (pr)
 U6549 Mini Spike 2; Blue - Slim (pr)
 U6550 Mini Spike 2; Green - Slim (pr)
 U6557 Mini Spike 2; Front Tyres - Yellow (pr)
 U6558 Mini Spike 2; Rear Tyres - Yellow (pr)
 U6581 Mini Spike 2; standard -Yellow - Slim (pr)
 U6592 Stagger Rib - Yellow - Slim
 U6595 Full Spike - Front Tyres- Yellow - 2.2 (pr)
 U6596 Full Spike - Rear Tyres- Yellow - 2.2 (pr)
 U6601 Mini Pin - Blue - Front - 2.2 (pr)
 U6602 Mini Pin - Blue - Rear - 2.2 (pr)
 U6607 Mini Pin - Yellow - Front - 2.2 (pr)
 U6608 Mini Pin - Yellow - Rear - 2.2 (pr)

1-10 BUGGY OFF ROAD TYRES Cont....

- U6609 Mini Pin - Yellow - Slim (pr)
 U6759 Cut Stagger - Yellow - Slim (pr)
 U6761 Mini Spike 2; Silver - Slim (pr)
 U6762 Mini Spike 2; Front Tyres - Silver (pr)
 U6763 Mini Spike 2; Rear Tyres - Silver (pr)
 U6765 Cut Stagger Green - Slim (pr)
 U6770 Cut Stagger - Low Profile - Yellow (pr)
 U6771 Cut Stagger - Low Profile - Green (pr)
 U6775 Cut Stagger - Low Profile - Silver (pr)
 U6776 Cut Stagger - Low Profile - Blue (pr)
 U6778 Mini Pin - Silver - Rear - 2.2 (pr)
 U6779 Mini Pin - Silver - Slim (pr)
 U6786 Block - Rear Tyres - Yellow - CAT pr

1-10 INSERTS

- CR141 Red Moulded Insert; 1/10 Off Rd Rear
 CR142 Red Moulded Insert; 1/10 Off Rd 4WD Front
 U6652 Foam Tyre Insert; Hard - Front - CAT (pr)
 U6653 Foam Tyre Insert; Hard - Rear - CAT (pr)
 U6667 Foam Tyre Insert; Hard - Slim 2WD (pr)
 U6668 Foam Tyre Inserts; Soft - Ultra Wide (pr)
 U6669 Foam Tyre Inserts; Hard - Ultra Wide (pr)
 U6733 Foam Tyre Insert; Med - Front - CAT (pr)
 U6734 Foam Tyre Insert; Med - Rear - CAT (pr)
 U6738 Foam Tyre Insert; Med - Slim 2WD (pr)
 U6746 Tubby Insert; Med Front - CAT (pr)
 U6747 Tubby Insert; Med Rear - CAT (pr)

PINIONS

- U2305 16T Steel Pinion - 48 D.P.
 U2306 17T Steel Pinion - 48 D.P.
 U2307 18T Steel Pinion - 48 D.P.
 U2308 19T Steel Pinion - 48 D.P.
 U2309 20T Steel Pinion - 48 D.P.
 U2310 21T Steel Pinion - 48 D.P.
 U2311 22T Steel Pinion - 48 D.P.
 U2312 23T Steel Pinion - 48 D.P.
 U2313 24T Steel Pinion - 48 D.P.
 U2314 25T Steel Pinion - 48 D.P.
 U2315 26T Steel Pinion - 48 D.P.
 U2316 27T Steel Pinion - 48 D.P.
 U2317 28T Steel Pinion - 48 D.P.
 U2318 29T Steel Pinion - 48 D.P.
 U3414 Pinion; Hard Alloy 48dp - 14T
 U3415 Pinion; Hard Alloy 48dp - 15T
 U3416 Pinion; Hard Alloy 48dp - 16T
 U3417 Pinion; Hard Alloy 48dp - 17T
 U3418 Pinion; Hard Alloy 48dp - 18T
 U3419 Pinion; Hard Alloy 48dp - 19T
 U3420 Pinion; Hard Alloy 48dp - 20T
 U3421 Pinion; Hard Alloy 48dp - 21T
 U3422 Pinion; Hard Alloy 48dp - 22T
 U3423 Pinion; Hard Alloy 48dp - 23T
 U3424 Pinion; Hard Alloy 48dp - 24T
 U3425 Pinion; Hard Alloy 48dp - 25T
 U3426 Pinion; Hard Alloy 48dp - 26T
 U3427 Pinion; Hard Alloy 48dp - 27T
 U3428 Pinion; Hard Alloy 48dp - 28T
 U3429 Pinion; Hard Alloy 48dp - 29T
 U3430 Pinion; Hard Alloy 48dp - 30T
 U3431 Pinion; Hard Alloy 48dp - 31T
 U3432 Pinion; Hard Alloy 48dp - 32T

TEAM MERCHANDISE

- ED199206 EDS Pit Towel 110 x 70cm
 G310 Schumacher Rubber Pit Mat - 750mm x 500mm
 G315 Schumacher Pit Towel
 G338 2 Tone Beanie Knitted Hat
 G339L Jacket - 3 Layer Softshell; Black - L 44inch
 G339M Jacket - 3 Layer Softshell; Black - M 41inch
 G339S Jacket - 3 Layer Softshell; Black - S - 38inch
 G339XL Jacket - 3 Layer Softshell; Black - XL 46inch
 G339XS Jacket - 3 Layer Softshell; Black - XS - 34inch
 G339XXL Jacket - 3 Layer Softshell; Black - XXL 48inch
 G339XXXL Jacket - 3 Layer Softshell; Black - XXXL 50inch
 G340 Schumacher Baseball Cap - Black
 G341 Schumacher Flat bill Cap - Black
 G342L T - Navy - Large 100% cotton knit mens
 G342M T - Navy - Medium 100% cotton knit mens
 G342S T - Navy - Small 100% cotton knit mens
 G342XL T - Navy - X-Large 100% cotton knit mens
 G342XXL T - Navy - XX-Large 100% cotton knit mens
 G342XXXLT - Navy - XXX-Large 100% cotton knit mens
 G342XXXXL T - Navy - XXXX-Large 100% cotton knit mens
 G343L Sweat-Navy-Large 80% cotton,20% polyester knit
 G343M Sweat-Navy-Med, 80% cotton,20% polyester knit men
 G343S Sweat-Navy-Small,80% cotton,20% polyester knit men

TEAM MERCHANDISE Cont...

- G343XL Sweat-Navy-XL, 80% cotton,20% polyester knit men
 G344L Polo - Navy - Large, 100% cotton knit mens men
 G344M Polo - Navy - Med, 100% cotton knit mens
 G344S Polo - Navy - Small, 100% cotton knit mens
 G344XL Polo - Navy - X-Large, 100% cotton knit mens
 G344XXL Polo - Navy - XX-Large, 100% cotton knit mens
 G344XXXL Polo - Navy - XXX-Large, 100% cotton knit mens
 G344XXXXL Polo - Navy - XXXX-Large, 100% cotton knit mens
 G351 Schumacher Thermo Mug
 G352 Schumacher Umbrella
 NR96398 Nosram Pit Towel 2

TOOLS

- CR100 Shock Shaft Pliers - Purple
 CR101 Shock Shaft Pliers - Black
 CR102 Magnetic Parts Tray - Purple
 CR103 Magnetic Parts Tray - Black
 CR148 CORE RC - Polybutler Pit Box; Black
 CR233 Piston Drilling Kit-1.1, 1.2, 1.3, 1.4, 1.5mm
 ED181002 Chassis Droop Gauge Blocks 20mm for 1/8,1/10 (2)
 ED190012 Reamer with Protection Cap for Body - 14mm
 H1031 Bearing Blaster Aerosol 500ml
 H1032 Alloy Camber Gauge - 1/10th
 H1055 GT85 Lube and Clean Aerosol 400ml
 H1056 Locite 243 Thread Lock
 H1057 Loctite Precision Super Glue - 5g
 HW010 Circlip Pliers; Internal - Wiha
 MR-SUPER GLUE Perfect Super Glue for Rubber Tyres
 U2789 Schumacher Hex Driver - 1.5mm
 U2790 Schumacher Hex Driver - 2.0mm
 U2791 Schumacher Hex Driver - 2.5mm
 U2795 Schumacher M3 Nut Driver
 U2796 Schumacher M4 Nut Driver
 U2818 Schumacher Body Reamer
 U4229 Steel Spanner - 5.5mm/3.9mm

BATTERIES

- CR059 CORE RC - Safe Charge Pouch 23x30cm
 CR170 CORE RC Lipo Locker - 17 x 8 x 7cm
 CR171 CORE RC - 4000mAh 7.4V 20C/40C Saddle Lipo
 G718 GP Alkaline AA Pencell; Card 4
 G721 AA Pencell 2500NiMh - Card 4
 GM99009 Lipo-saddle V-Maxx 60C 2x1S3P/5600 3, 7V G4
 GM99018 Lipo Battery V-Maxx 70C 2S2P/6800 7.4v G
 GM99024 Lipo Battery V-Maxx 70C 2S2P/7200 7.4V
 H1046 T Connector; Red 2 Way - Male and Female
 H1047 T Connector; Black 2 Way - Male and Female
 H1048 T Connector; Red Sockets - pk4
 H1049 T Connector; Black Sockets - pk4
 MR-SB MR33 Lipo Bag
 NR99941 NOSRAM Lipo 5600 X-Treme Race Saddle 55C/110C-7.4V
 NR99948 NOSRAM LiPo 5000 Saddle - 7.4V 50C
 NR999500 Lipo 7200 Big Mama Hard Case 100C/50C-7.4V
 NR999501 Lipo 7000 X-treme Race H/Case 55C-7.4V
 NR999503 Lipo 5800 X-treme Race Saddle pl H/Case 55C-7.4V
 NR999504 Lipo 4500 X-treme Race Short H/Case 110C/55C-7.4V
 NR999505 Lipo 5200 X-treme Race H/Case 80C/40C - 7.4V
 NR999506 Lipo 5700 X-treme Race H/Case 80C/40C - 7.4V
 NR99951 Lipo 6200 Big Mama X-treme Race H/case 65C-7.4V
 TP3800-2SPR65S Thunder Power Lipo 3800mAh 2S shorty - 65C/130C
 TP4P10E Thunder Power 4 Pin Balance connector 10Extension"
 TP4P8 TP 4 Pin Balance Connector 8 Colour Coded Wires"
 TP5000-2SPR65S Thunder Power Lipo 5000mAh 2S saddle - 65C/130C
 TP5300-2SPR65B Thunder Power Lipo 5300mAh 2S - 7.4V - 65C/130C
 TP6000-2SPR65B Thunder Power Lipo 6000mAh 2S - 7.4V - 65C/130C
 TP6P10E Thunder Power 6 Pin Balance Connector 10Extension"
 TP6P13 TP 6 Pin Balance Connector 13 Colour Coded Wires"
 TP6P4PE Thunder Power 6 Pin Adaptor/Extension
 TP-AL-2S Adaptor Lead - 2S JST to TP
 TPLSBL Thunder Power Lipo Charge Bag Large 9 x 12""
 TPLSBS Thunder Power Lipo Charge Bag Small 7 x 8" x 5""

BRUSHLESS ACCESSORIES

- CR133 Core Sensor Lead; 80mm
 CR134 Core Sensor Lead; 180mm
 GM2894.9 Sensor Adaptor Cable - Gm-Evo2/Novak-M
 HW2361200 XERUN - Sensor Cable - 120mm
 HW2362000 XERUN - Sensor Cable - 200mm
 HW30502000014 XERUN-EZRUN-Multifunction LCD Program Box
 HW30860200010 XERUN Competition Fan-2510SH-5v/0.16A for 2s
 HW86020010 XERUN-EZRUN - Program Card for ESC
 HW86030030 XERUN - Capacitors

BRUSHLESS ACCESSORIES Cont...

HW86080120 EZRUN - Heat Sink with Fan for 3660,3674 motors
 HW86080130 EZRUN - Heat Sink with Fan for 4465 motors
 HW86080150 XERUN Large Fan 3010HB-5V/0.18A for 2s
 NR92500 USB Bridge - Speedo Firmware Update Device
 NR92501 USB Bridge Spec2 - Speedo Firmware Update Device
 NR92512 Cooling Fan; Low Profile - Include Mounting Screws
 SP000007 Muti LED Program Card Version 2.0
 SP000008 Reventon Blue-Tooth" Module"
 SP000009 Reventon WiFi" Module"
 SP000029 Sensor Unit +20 Timing" for V3.0 Motor-Green Color"
 SP000034 Sensor Unit +10 Timing" for V3.0 Motor-Red Color"
 SP000041 Sensor Unit for V3.0 - 4.0T/5.0T Motor
 SP000059 Sensor Unit +40 Timing for V3.0 Motor Blue
 SP138MS105 10.5R Stator for Competition Version 3.0 Motor
 SP138MS135 13.5R Stator for Competition Version 3.0 Motor
 SP138MS175 17.5R Stator for Competition Version 3.0 Motor
 SP138MS215 21.5R Stator for Competition Version 3.0 Motor
 SP162801 SP - Sensor Cable 180mm
 SP162802 SP - Sensor Cable 90mm
 SP162803 SP - Sensor Cable 250mm
 SPSB428 Sensor unit with Team protect for V3.0 motor
 TPM-P1000 Thunder Power Bearing Replacement Tool
 TPM-P1001 T-Power Bearing Std 1/8x3/8x5/32 (2pcs) S/M 540"
 TPM-P1002 T-Power Bearing Ceramic 1/8x3/8/5/32 (2pcs) S/M 540"
 TPM-P1005 Thunder Power Sensor Unit w/Std Bearing S/M 540/550
 TPM-P1007 Thunder Power Outer Can/Case w/Screws S/M 540
 TPM-P1008 Thunder Power Timing Cap w/Screws S/M 540/550
 TPM-P1010 Thunder Power Senser Wire Harness 110mm
 TPM-P1011 Thunder Power Sensor Wire Harness 200mm
 TPM-P1012 Thunder Power Sensor Wire Harness 270mm
 TPM-P1014 Thunder Power Insulator Set (Fr/Rr) S/M 540/550
 TPM-R540AHT Stock Spec 540 Hi-Torque Rotor 12.5/7.25/25.0 Grn
 TPM-R540AMR Thunder Power Mod 540 Rotor 12.2/5.2/25.0 Purple
 TPM-R540AMR-S Thunder Power Mod 540 Rotor 12.0/5.0/25.3 Gold
 TPM-R540ASR T-Power Stock Spec 540 Rotor 12.2/7.25/24.2 Red
 TPM-R540AST T-Power StockSpec Torque Rotor 12.2/7.25/25.0 Blue
 TPM-S540A030 Thunder Power 3.0T Modified 540 Stator
 TPM-S540A035 Thunder Power 3.5T Modified 540 Stator
 TPM-S540A040 Thunder Power 4.0T Modified 540 Stator
 TPM-S540A045 Thunder Power 4.5T Modified 540 Stator
 TPM-S540A050 Thunder Power 5.0T Modified 540 Stator
 TPM-S540A055 Thunder Power 5.5T Modified 540 Stator
 TPM-S540A060 Thunder Power 6.0T Modified 540 Stator
 TPM-S540A065 Thunder Power 6.5T Modified 540 Stator
 TPM-S540A075 Thunder Power 7.5T Modified 540 Stator
 TPM-S540A085 Thunder Power 8.5T Modified 540 Stator
 TPM-S540A095 Thunder Power 9.5T Modified 540 Stator

BRUSHLESS MOTORS

GM97296 GM Pro 6.5T - Star Wind
 NR90550 Cobra Brushless Motor - 6.5T
 NR90562 Cobra 2 Brushless Motor - 8.5T
 NR90648 Nosram Pure 2 BL - 10.5T
 NR90649 Nosram Pure 2 BL - 9.5T
 NR90664 Nosram Pure 2 BL - 7.5T
 NR90673 PURE Evolution BL - 6.5t OCTA WIND
 NR90684 Nosram Pure 2 BL - 5.5T
 NR90689 Nosram Pure 2 BL - 5.0T
 NR90704 Nosram Pure 2 BL - 4.0T
 SP000148 1/10 Competition MMM Series 5.0R BL Motor
 SP000149 1/10 Competition MMM Series 5.5R BL Motor
 SP000151 1/10 Competiton MMM Series 4.0R BL Motor
 SP13855V3 Speed Passion V3.0 Comp BL Motor; 5.5T
 SP13865V3 Speed Passion V3.0 Comp BL Motor; 6.5T
 SP13875V3 Speed Passion V3.0 Comp BL Motor; 7.5T
 SP13885V3 Speed Passion V3.0 Comp BL Motor; 8.5T
 TPM-540A055 Thunder Power 5.5T Modified 540 BL Motor
 TPM-540A060 Thunder Power 6.0T Modified 540 BL Motor
 TPM-540A065 Thunder Power 6.5T Modified 540 BL Motor
 TPM-540A075 Thunder Power 7.5T Modified 540 BL Motor
 TPM-540A085 Thunder Power 8.5T Modified 540 BL Motor
 TPM-540A095 Thunder Power 9.5T Modified 540 BL Motor

BRUSHLESS COMBO'S

SPPRO105MMM Reventon-Pro ESC Grey V3.0 MMM 10.5R Combo
 SPPRO135MMM Reventon-Pro ESC Grey V3.0 MMM 13.5R Combo
 SPPRO175MMM Reventon-Pro ESC Grey V3.0 MMM 17.5R Combo
 SPPRO215MMM Reventon-Pro ESC Grey V3.0 MMM 21.5R Combo
 SPPRO65V3 Reventon-Pro ESC Grey-V3.0-6.5R Combo
 SPPRO75V3 Reventon-Pro ESC Grey-V3.0-7.5R Combo
 SPPRO85V3 Reventon-Pro ESC Grey-V3.0-8.5R Combo

BRUSHLESS SPEEDCONTROLS

CR173 PACE 45R Brushless ESC 1s/2s
 CR174 PACE 45R Programming Card
 GM97168.B GM-Genius 120 with Boost 3.7 - 7.4V
 HW81010130 EZRUN-35A-SL - BL ESC - for 1/10 Car & Truck
 HW81010190 EZRUN-60A-SL - BL ESC - for 1/10 Car & Truck
 HW81010380 EZRUN-WP-60A-SL - BL ESC - for 1/10 waterproof
 HW81010390 EZRUN-WP-80A-SL - BL ESC - for 1/10 waterproof
 HW81010400 EZRUN-WP-SC8-120A BL ESC - 1/10 1/8 waterproof
 HW81020010 XTREME Stock BL ESC - Blue - 60A
 HW81020011 XTREME Stock BL ESC - Black - 60A
 HW81020170 XERUN - V2.1 - BL ESC-120A - Blue
 HW81020340 XERUN - V3.1 BL-ESC - Blue 120A
 HW81020350 XERUN - V3.1 BL-ESC - Black 120A
 HW81020360 XERUN - V3.1 BL-ESC - Red 120A
 HW81020380 XERUN - V2.1 - BL-ESC-90A-Blue
 NR90430 NOSRAM One Brushless ESC
 NR90960 Comet EVO Brushless Speed Control
 NR90970 Comet HD Brushless Speed Control
 NR90999 Pearl Upgrade Kit -Mod + Stock
 SP000043 Reventon-R ESC - 2S - Orange
 SP000063 Reventon-R ESC - 2S - Blue
 SP000064 Reventon-R ESC - 2S - Silver
 SP000162 Reventon Pro - ESC-2S-Blue
 SP000222 Reventon Pro ESC-2S-Black/Grey
 SP000739 Reventon Pro ESC-2S - V1.1 Black
 SPEXT98802LPB Speed Passion LPF V2.0 ESC - Blue
 SPEXT98802LPF Speed Passion LPF V2.0 ESC - Carbon Look
 SPEXT98802LPS Speed Passion LPF V2.0 ESC - Silver
 SPEXT98802PRO Speed Passion GT V2.0 ESC - Carbon Look
 SPEXT98802S Speed Passion GT V2.0 ESC - Silver

CHARGERS AND DISCHARGERS

CR114 UDC Balance Adaptor Set JST-XH to JST-EH 2-6S
 CR161 UAC50 Charger 12v/110-240v 6A
 CR176 T Connector Female to EC3 Male Lead
 G834 Charger 240v UK; 7.2/Tx/Croc 1.2-12v
 GM6468.GB Ultramat 16S + 3076
 NR91400 Sigma Power Charger
 NR91555 Stealth Touch Evolution Charger
 NR93160 Nosram Power Supply 13.8V / 20A
 NR95815 Nosram Universal Charging Lead-Tamiya/JST Plug
 NR95816 Nosram Universal Chg Lead-2S Lipo H/Case/Bal Adpt
 NR95817 Nosram Universal Chg Lead- US-Style Plug
 TP1201P 100-240V AC - 12V DC, 1.0A Switching Adaptor TP103
 TP1205P 100-240V AC-12V DC, 5.0A Switching Adaptor
 TP14SAB-TPJXH Balance Conn Adaptor 2S-14S JST-XH - TP1430C
 TP205V Thunder Power 2-5 Cell Lipo Smart Balancer
 TP610C Thunder Power 10 Amp DC Balance Charger
 TP610C-ACDC Thunder Power 10 Amp AC/DC Balance Charger
 TP610C-BL2 Balance Conn Adaptor 2S/6S JST-XH 610C-ADC
 TP820CD Dual Port 20A DC charger/Cycler
 TP8SAB-TPJXH Balance Conn Adaptor Board 2S-8S JST-XH 820CD

ELECTRONICS

AN530400HV Digital BL Servo 10.7Kg for 1/10th Steering
 AN530410HV Digital BL Servo 22Kg for 1/8 & 1/10 Buggy/Truggy
 CR007 CORE RC Silicone Wire 12g - Red/Black 2x50cm
 CR008 CORE RC RED Connector with 2x4mm Tubes
 CR009 CORE RC RED Connector with 2x4mm Males
 CR050 CORE RC Silicone Wire 12g - Red 1 Metre
 CR051 CORE RC Silicone Wire 12g - Black 1 Metre
 CR052 CORE RC Silicone Wire 12g - Blue 1 Metre
 CR053 CORE RC Silicone Wire 12g - Red 50 Metre Reel
 CR054 CORE RC Silicone Wire 12g - Black 50 Metre Reel
 CR055 CORE RC Silicone Wire 12g - Blue 50 Metre Reel
 CR115 CORE RC Silicone Wire 12g - Red/Black/Blue 3x50cm
 CR119 Heatshrink 1.5mm dia Black - 20pcs
 CR120 Heatshrink 2.0mm dia Black - 20pcs
 CR124 Heatshrink 6.0mm dia Black - 20pcs
 CR125 Heatshrink 6.0mm dia Red - 20pcs
 CR151 CODE 2.4G FHSS LCD 2 Stick TxRx
 CR152 CODE 2.4G FHSS LCD - Rx Only
 CR153 CODE 2.4G FHSS Sport 2 Stick TxRx
 CR154 CODE 2.4G FHSS Sport - Rx Only
 CR155 Antenna 2.4G
 CR162 CORE RC Sensor Checking Widget
 CR195 Portable Emergency 60W Soldering Iron
 ED199502 EDS Ultra Bright L.E.D. Light Stand
 GM7952 Servo; Digital 806 MG-BB 0.08s 19.9Kg
 GM7953 Servo; Digital 807 MG-BB 0.06s 15.3Kg
 GM7954 Servo; Digital 808 MG-BB 0.04s 8.8Kg
 GM94050 GM Servo SLP High Voltage Brushless
 GM94051 GM Servo SST High Voltage Brushless
 GM94411 GM Soldering Station 90W ESD

**3 Layer Soft Shell Team Jacket - Black**

G339XS	Extra Small - 34 inch chest
G339S	Small - 38 inch chest
G339M	Medium - 41 inch chest
G339L	Large - 44 inch chest
G339XL	X Large - 46 inch chest
G339XXL	XX Large - 48 inch chest
G339XXXL	XXX Large - 50 inch chest

**Team Hooded Sweatshirt - Navy Blue**

G343S	Small
G343M	Medium
G343L	Large
G343XL	Extra Large

G352 Schumacher Team Umbrella**Caps - Black**

G340	Schumacher Baseball Cap
G341	Schumacher Flat bill Cap

**2013 Team Polo Shirt - Navy blue**

G344S	Small
G344M	Medium
G344L	Large
G344XL	X Large
G344XXL	XX Large
G344XXXL	XXX Large
G344XXXXL	XXXX Large
G344XXXXXL	XXXXX Large

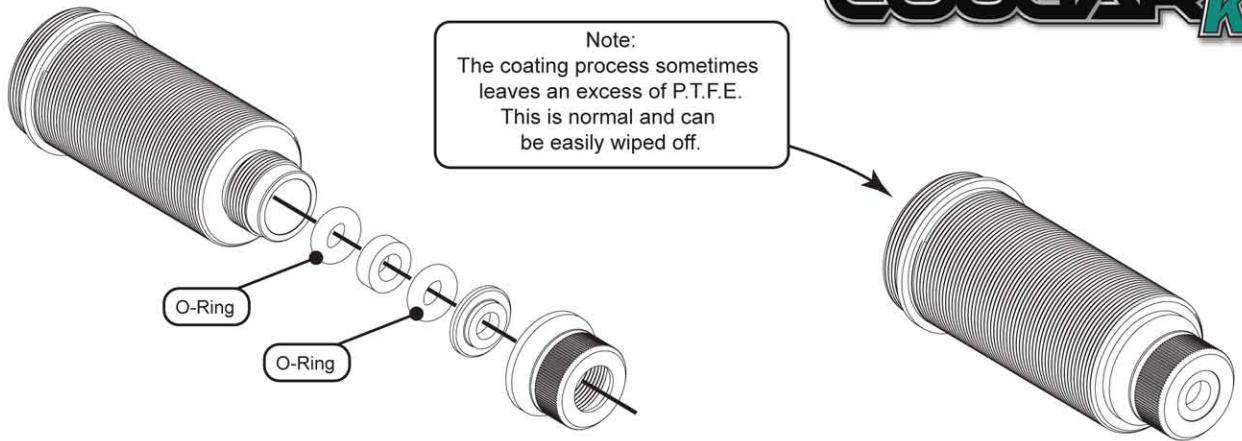
2013 Team T-Shirt - Navy blue

G342S	Small
G342M	Medium
G342L	Large
G342XL	X Large
G342XXL	XX Large
G342XXXL	XXX Large
G342XXXXL	XXXX Large
G342XXXXXL	XXXXX Large

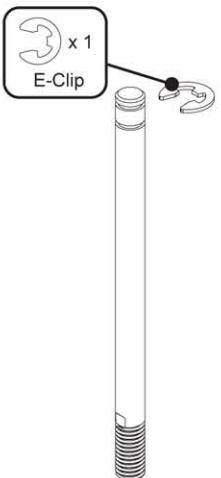
G338 2 Tone Beanie Knitted Hat**G351 Schumacher Thermo Mug****G315 Schumacher Pit Towel****G310 Schumacher Rubber Pit Mat
750mm x 500mm****S500B - Team Schumacher Banner 3ft x 6ft**

Step 37

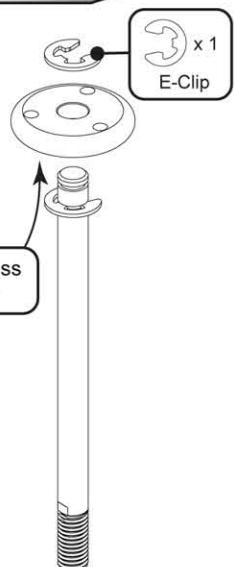
COUGAR KR



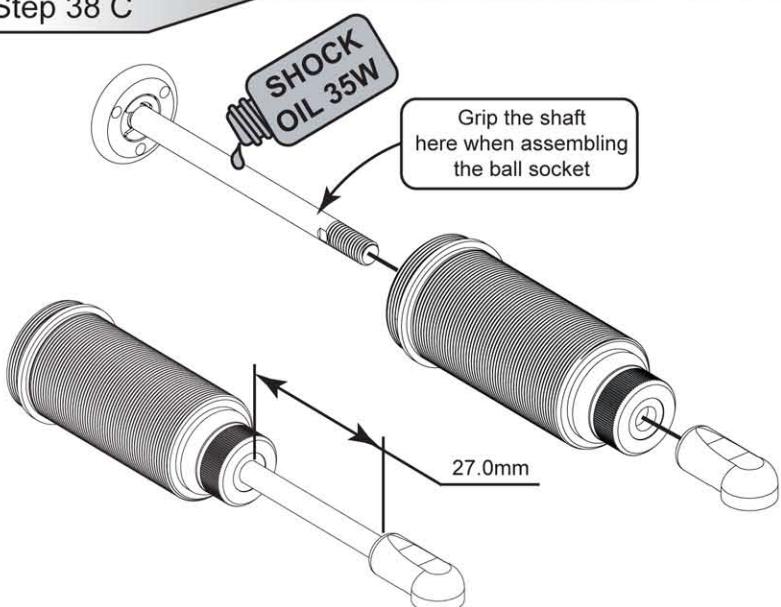
Step 38 A



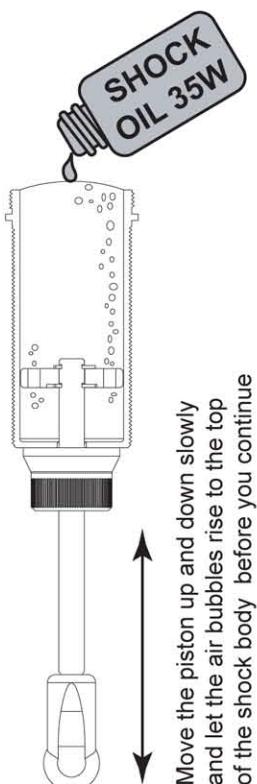
Step 38 B



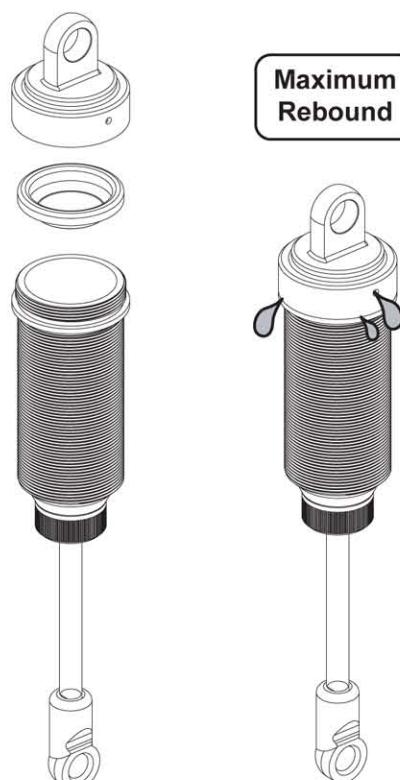
Step 38 C



Step 39 A



Step 39 B



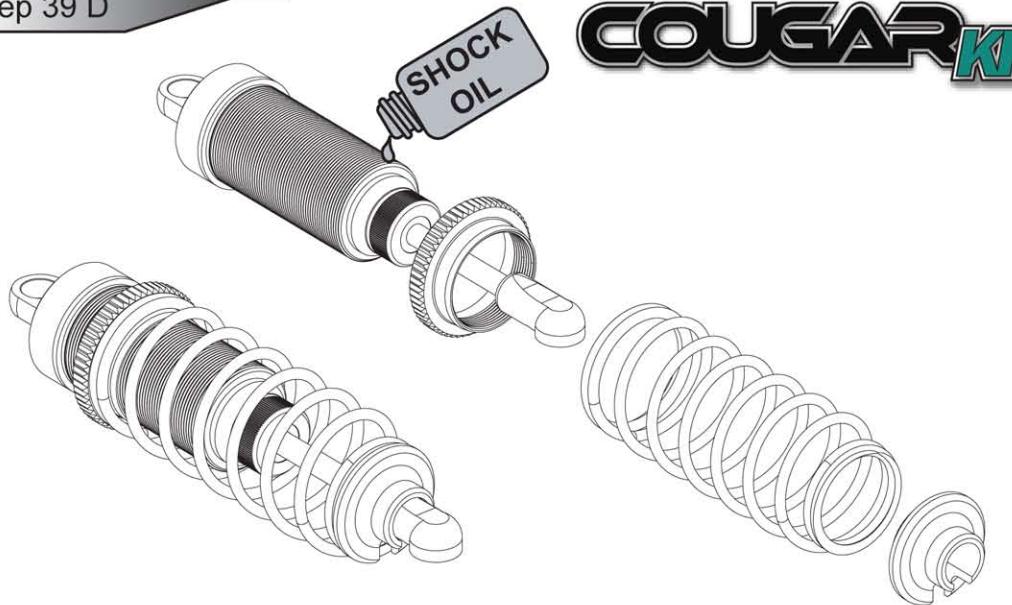
Maximum
Rebound

Minimum
Rebound

Step 39 C



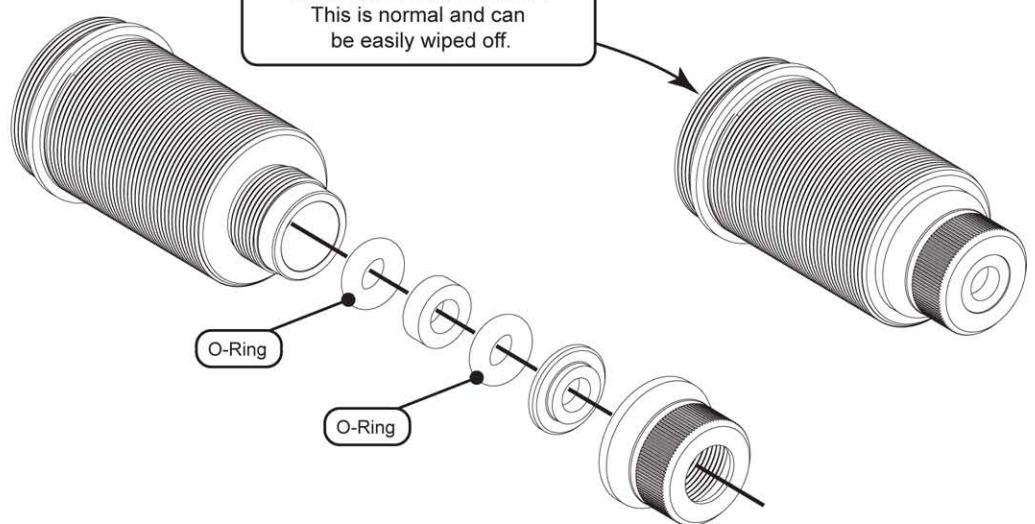
Step 39 D



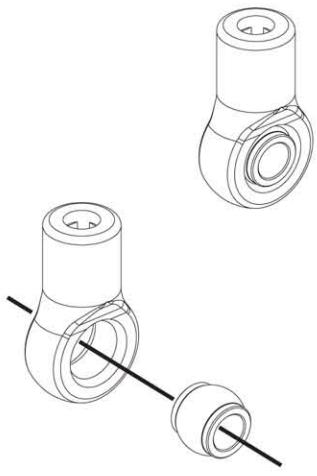
COUGAR KR

Step 40

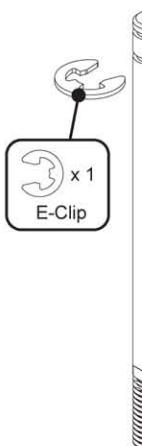
Note:
The coating process sometimes
leaves an excess of P.T.F.E.
This is normal and can
be easily wiped off.



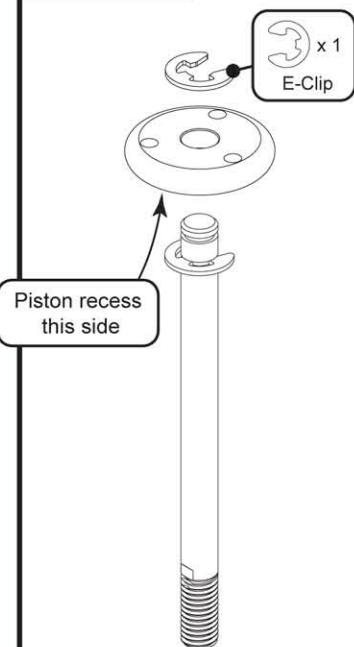
Step 41 A



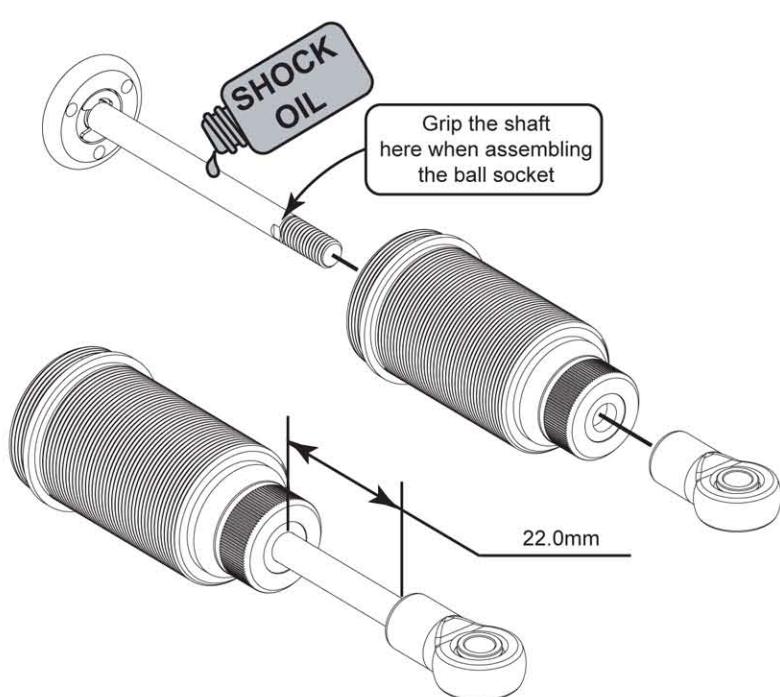
Step 41 B



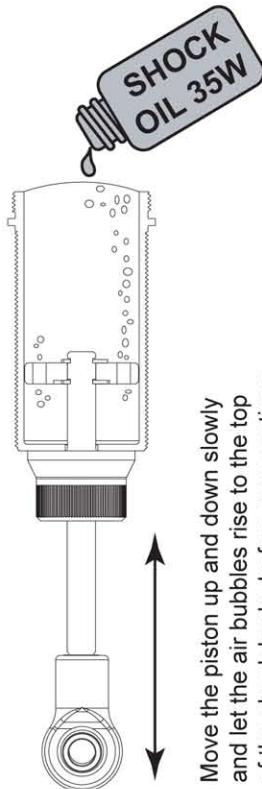
Step 41 C



Step 41 D

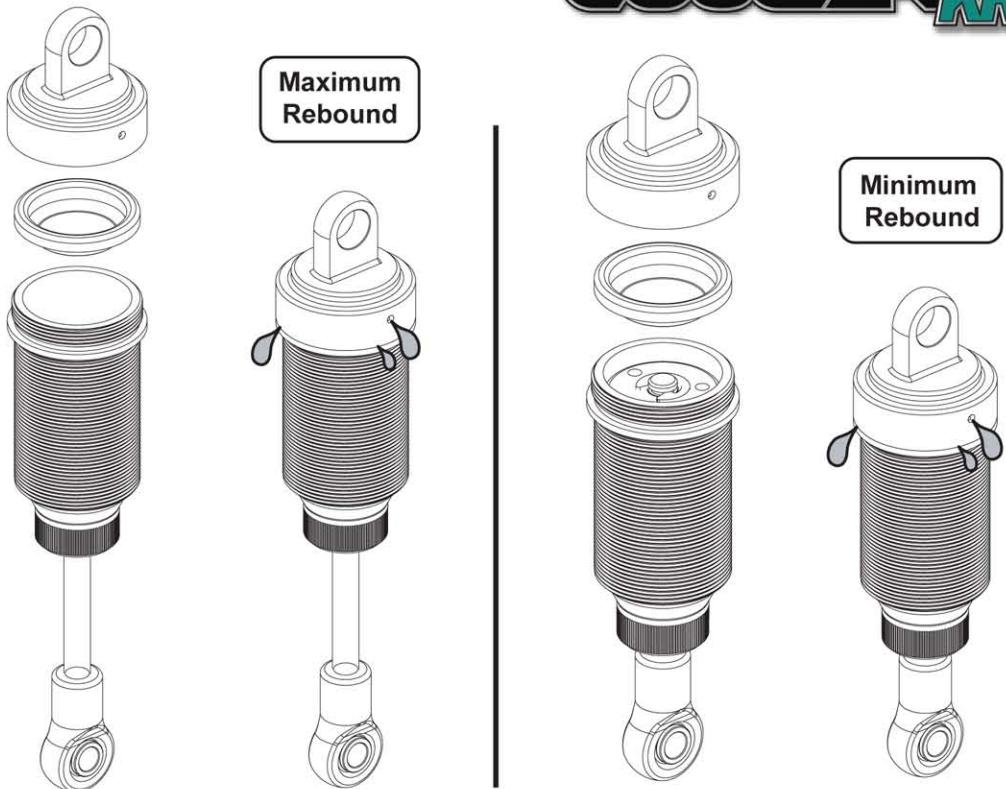


Step 42 A



Move the piston up and down slowly and let the air bubbles rise to the top of the shock body before you continue

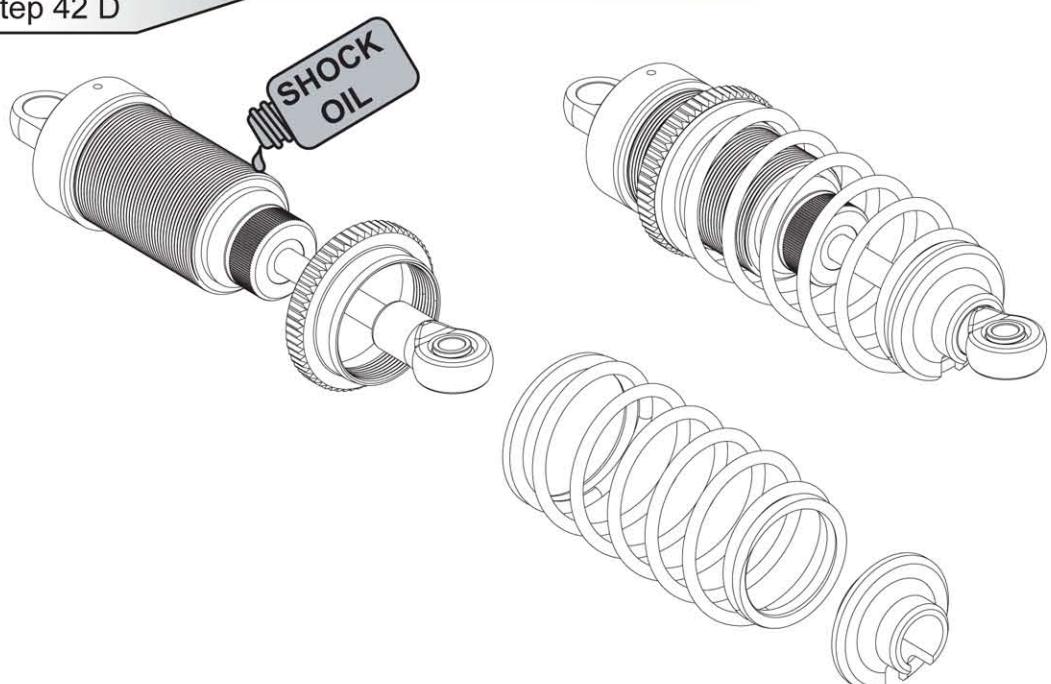
Step 42 B



Step 42 C



Step 42 D



Silicone Oils

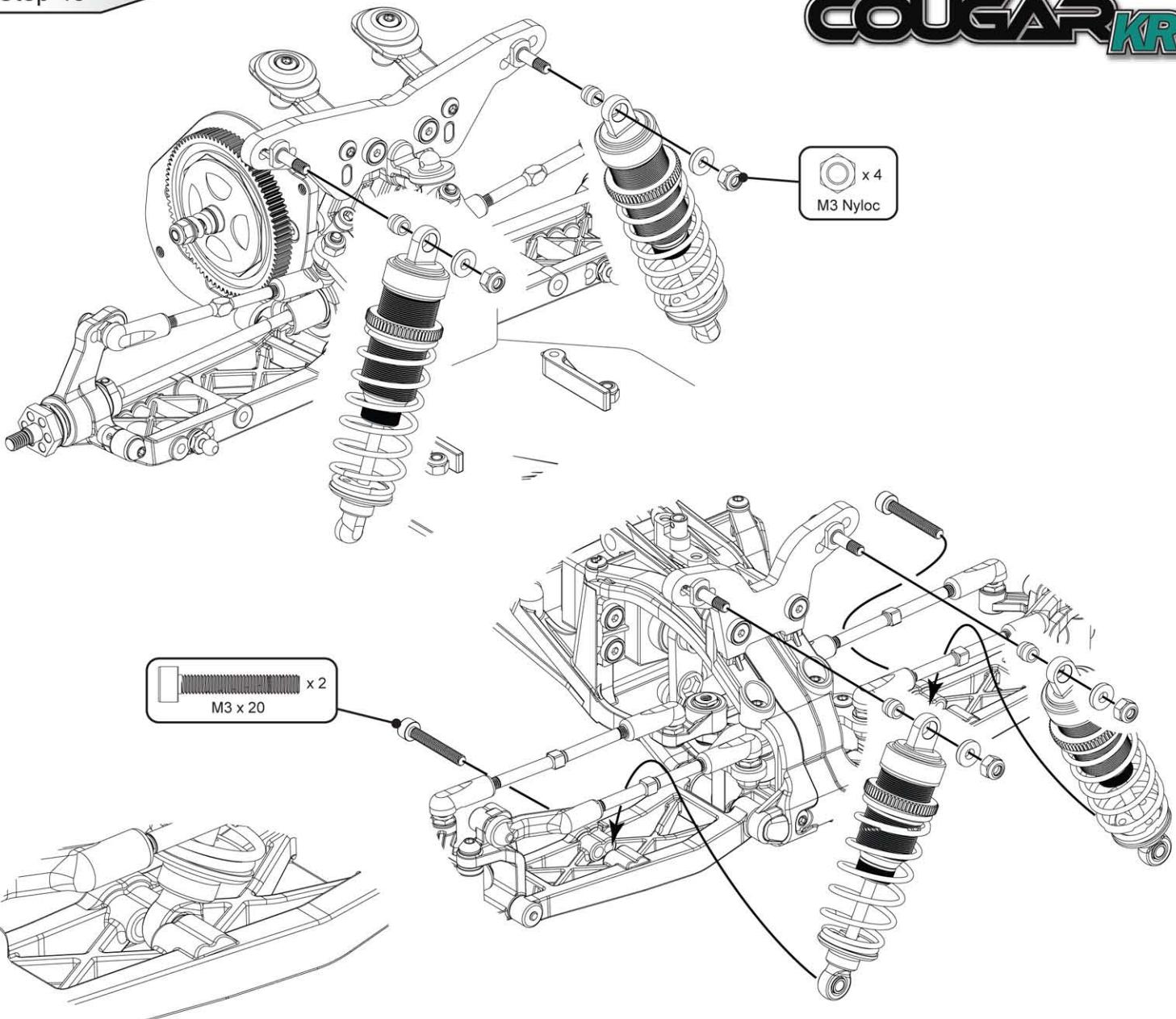


CORE-RC
.com

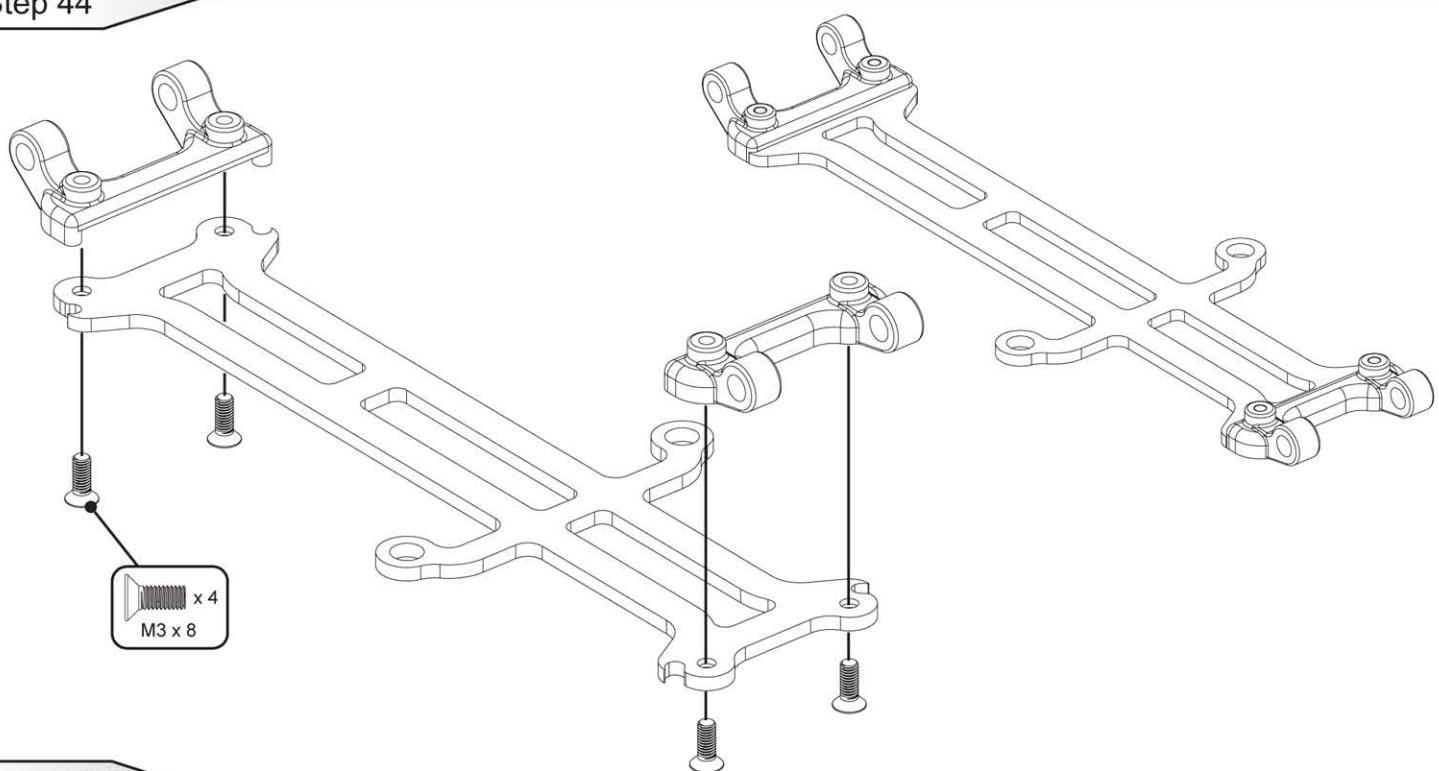
- CR200 CORE R/C Silicone Oil - 100 cSt - 60ml
- CR201 CORE R/C Silicone Oil - 150 cSt - 60ml
- CR202 CORE R/C Silicone Oil - 200 cSt - 60ml
- CR203 CORE R/C Silicone Oil - 250 cSt - 60ml
- CR204 CORE R/C Silicone Oil - 300 cSt - 60ml
- CR205 CORE R/C Silicone Oil - 350 cSt - 60ml
- CR206 CORE R/C Silicone Oil - 400 cSt - 60ml
- CR207 CORE R/C Silicone Oil - 450 cSt - 60ml
- CR208 CORE R/C Silicone Oil - 500 cSt - 60ml
- CR209 CORE R/C Silicone Oil - 550 cSt - 60ml
- CR210 CORE R/C Silicone Oil - 600 cSt - 60ml

Step 43

COUGAR KR

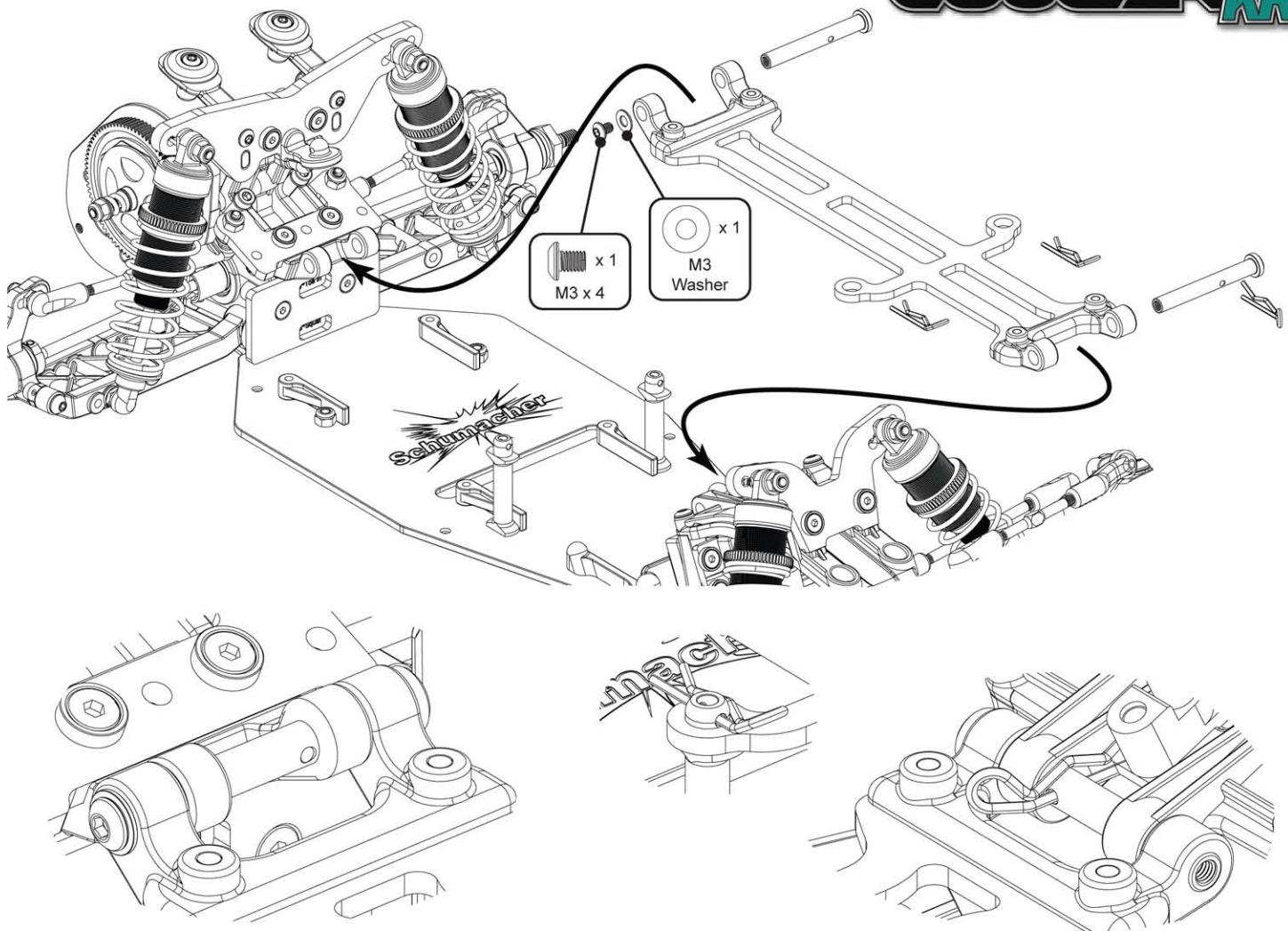


Step 44

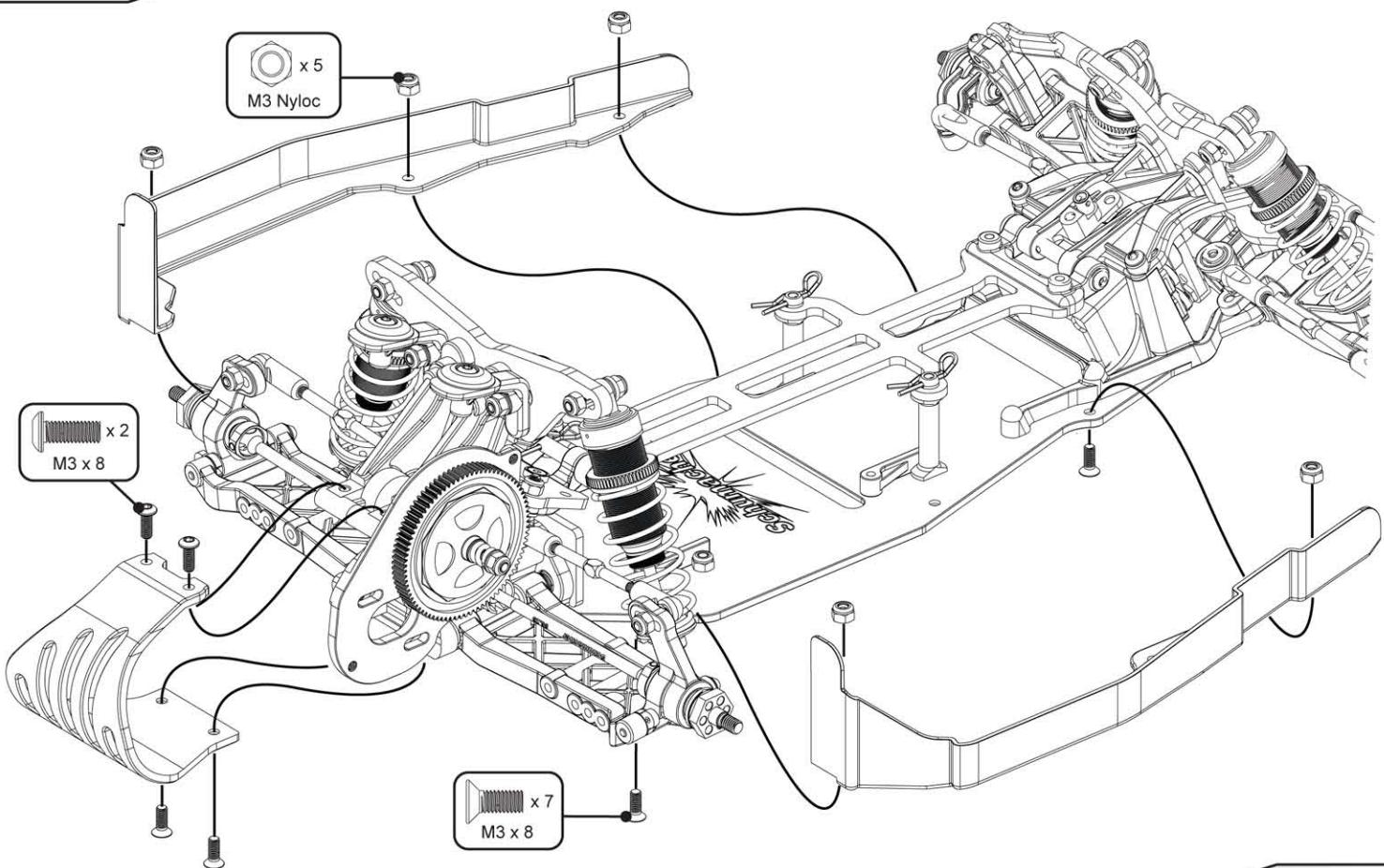


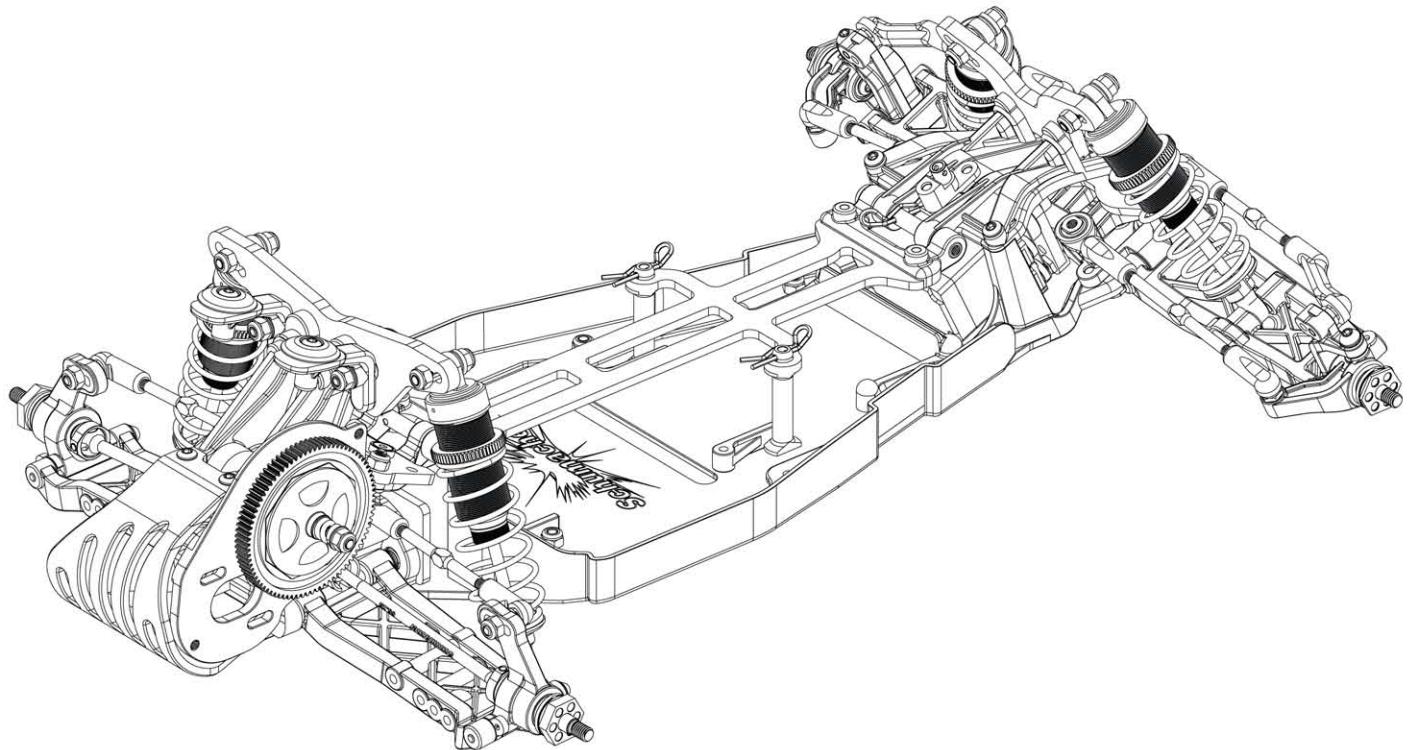
Step 45

COUGAR KR

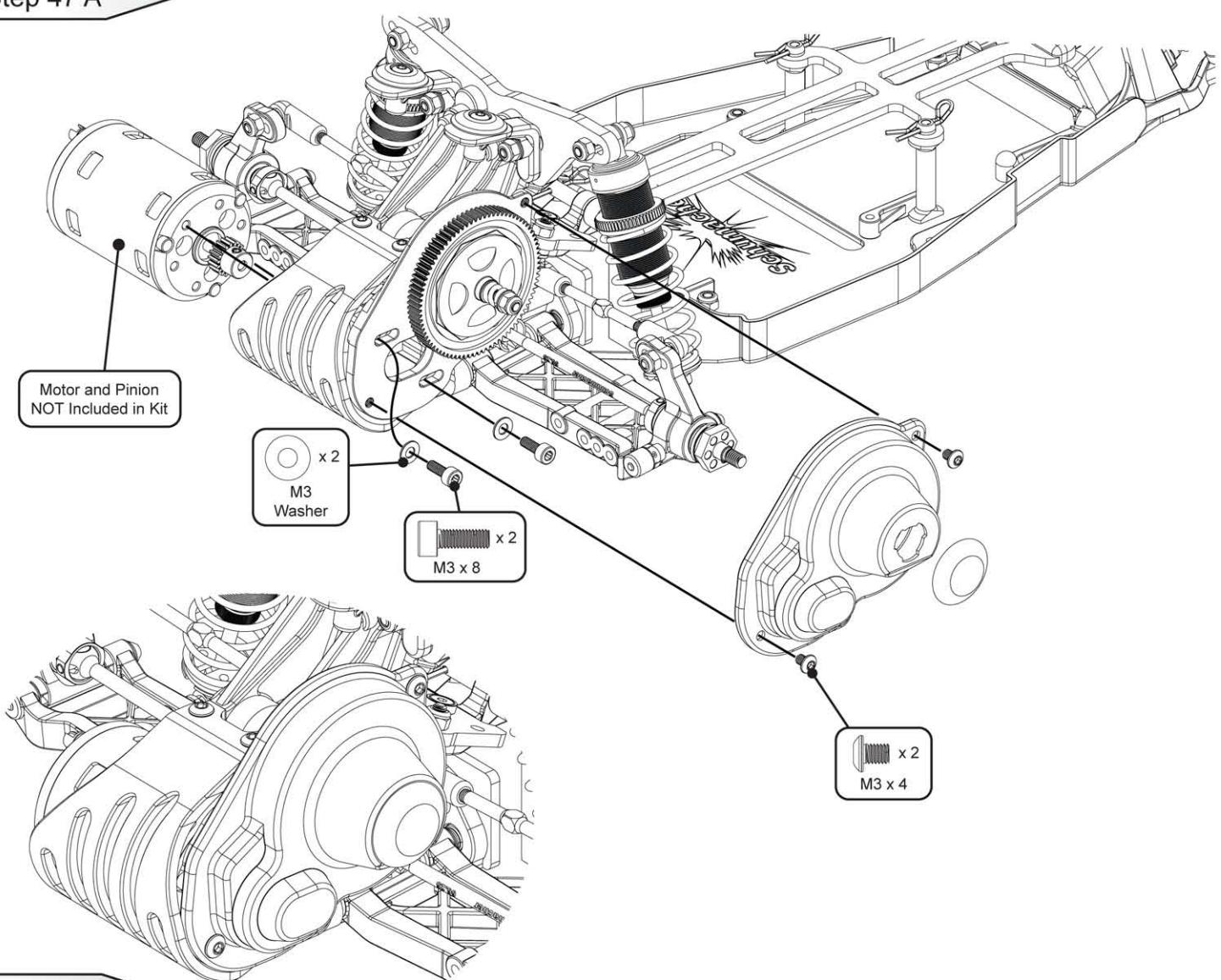


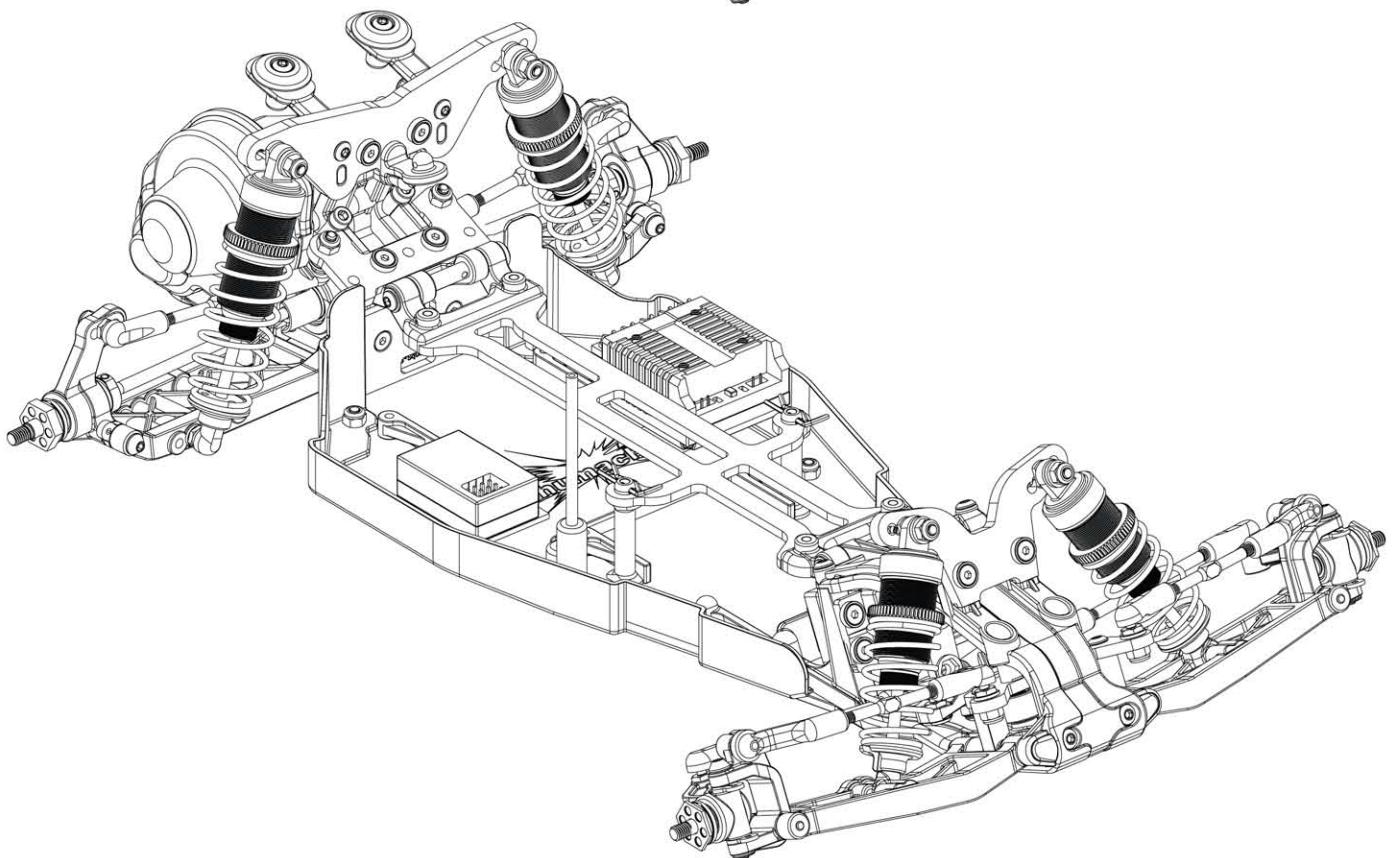
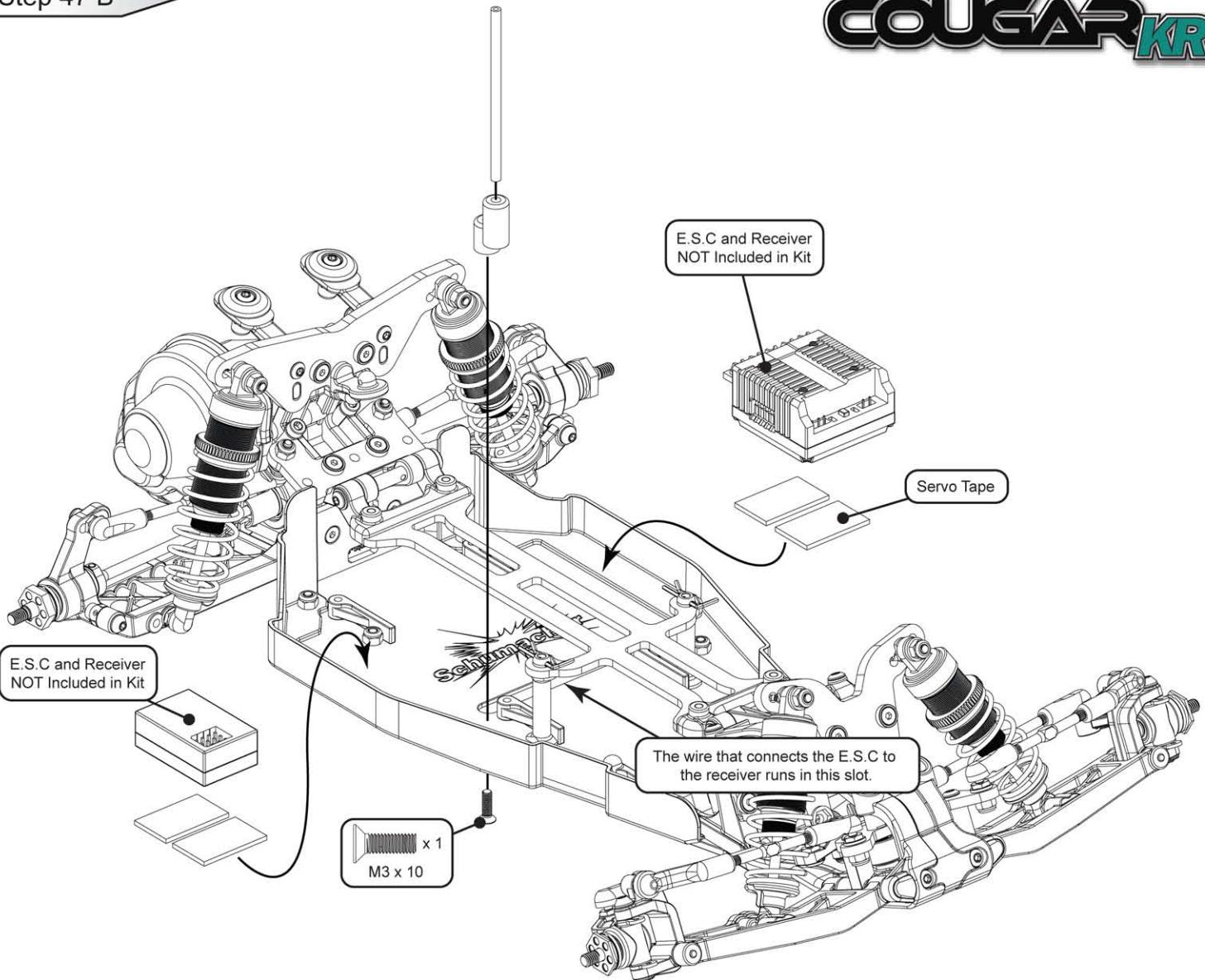
Step 46

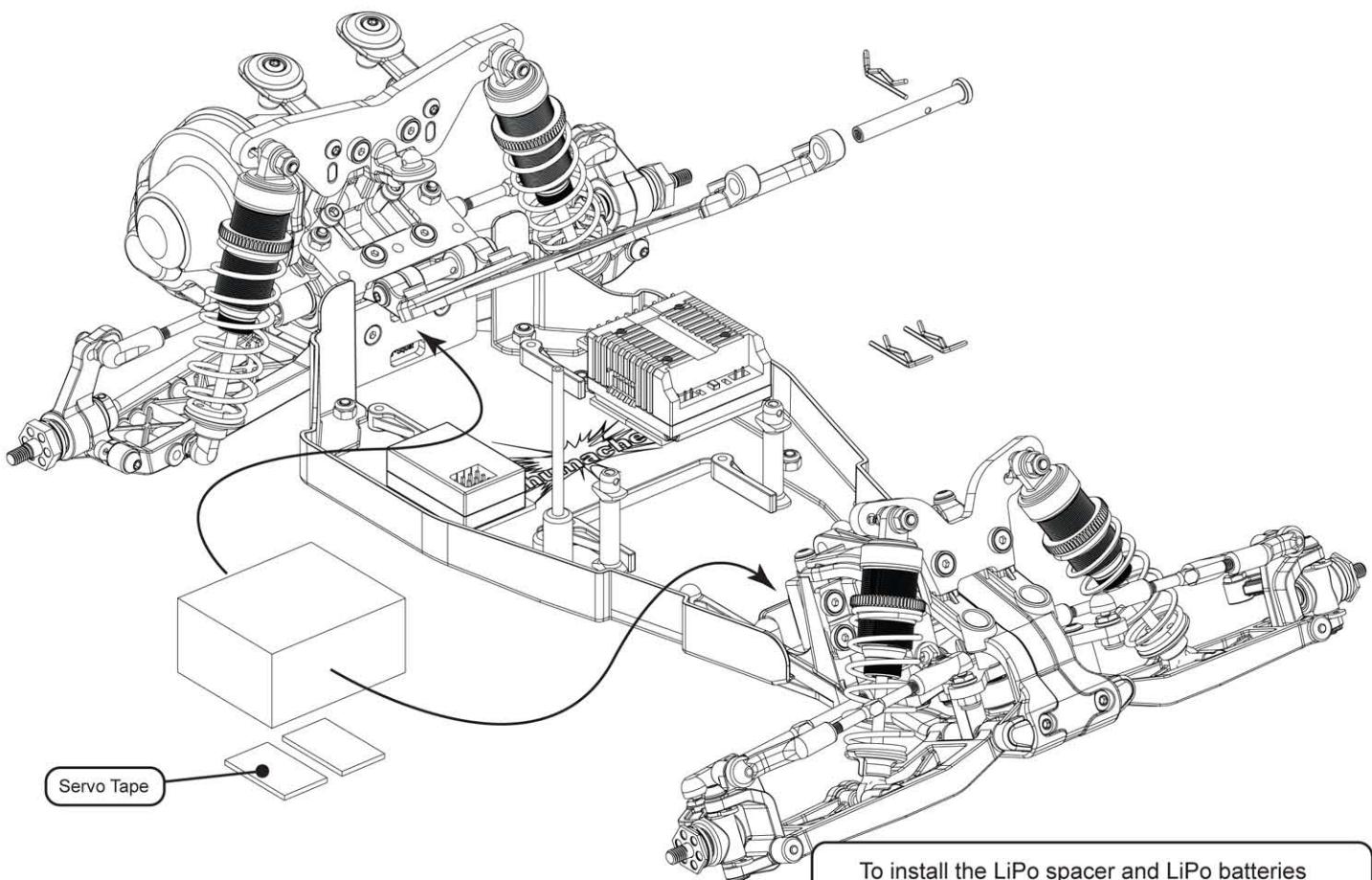




Step 47 A

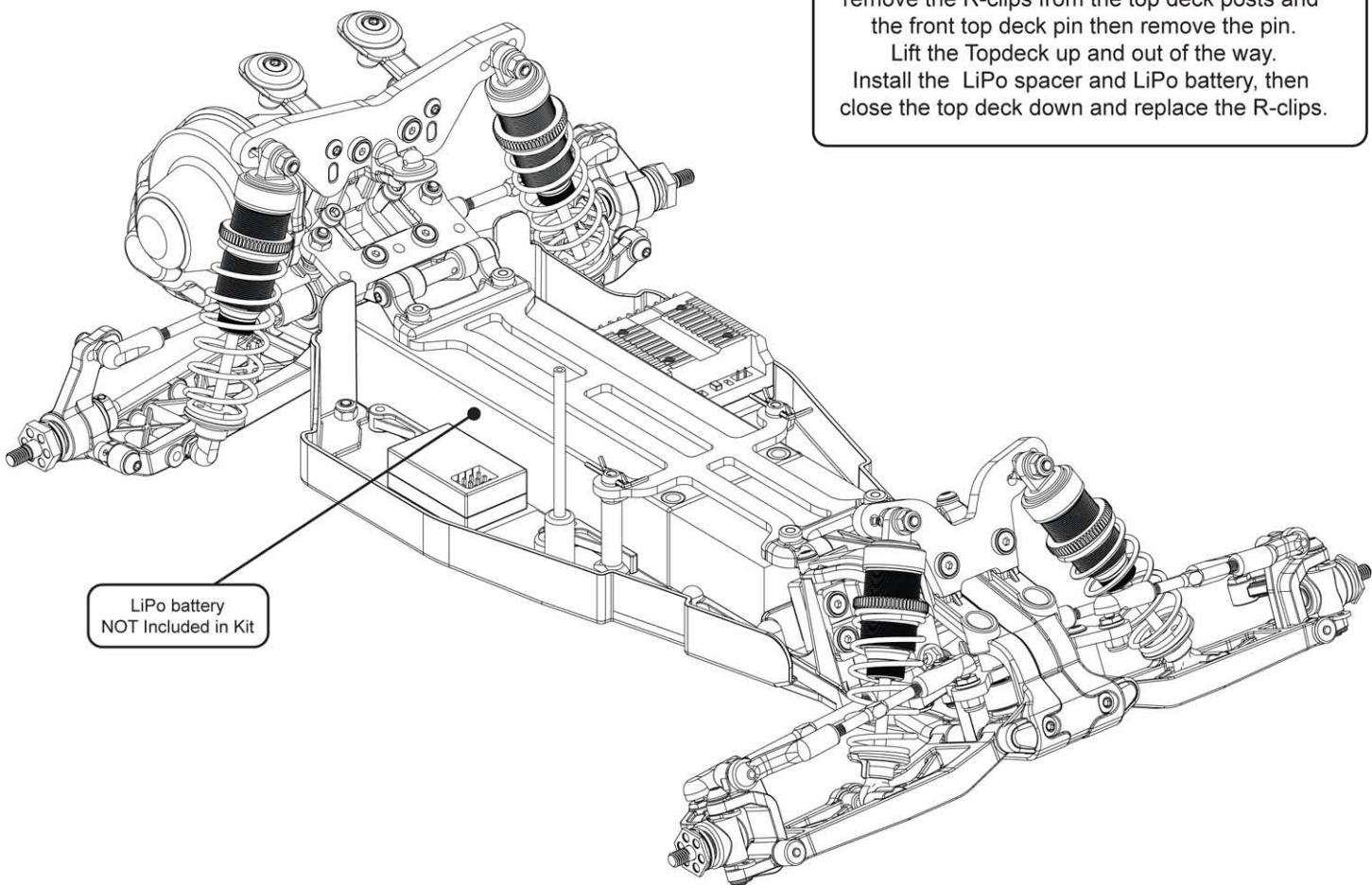


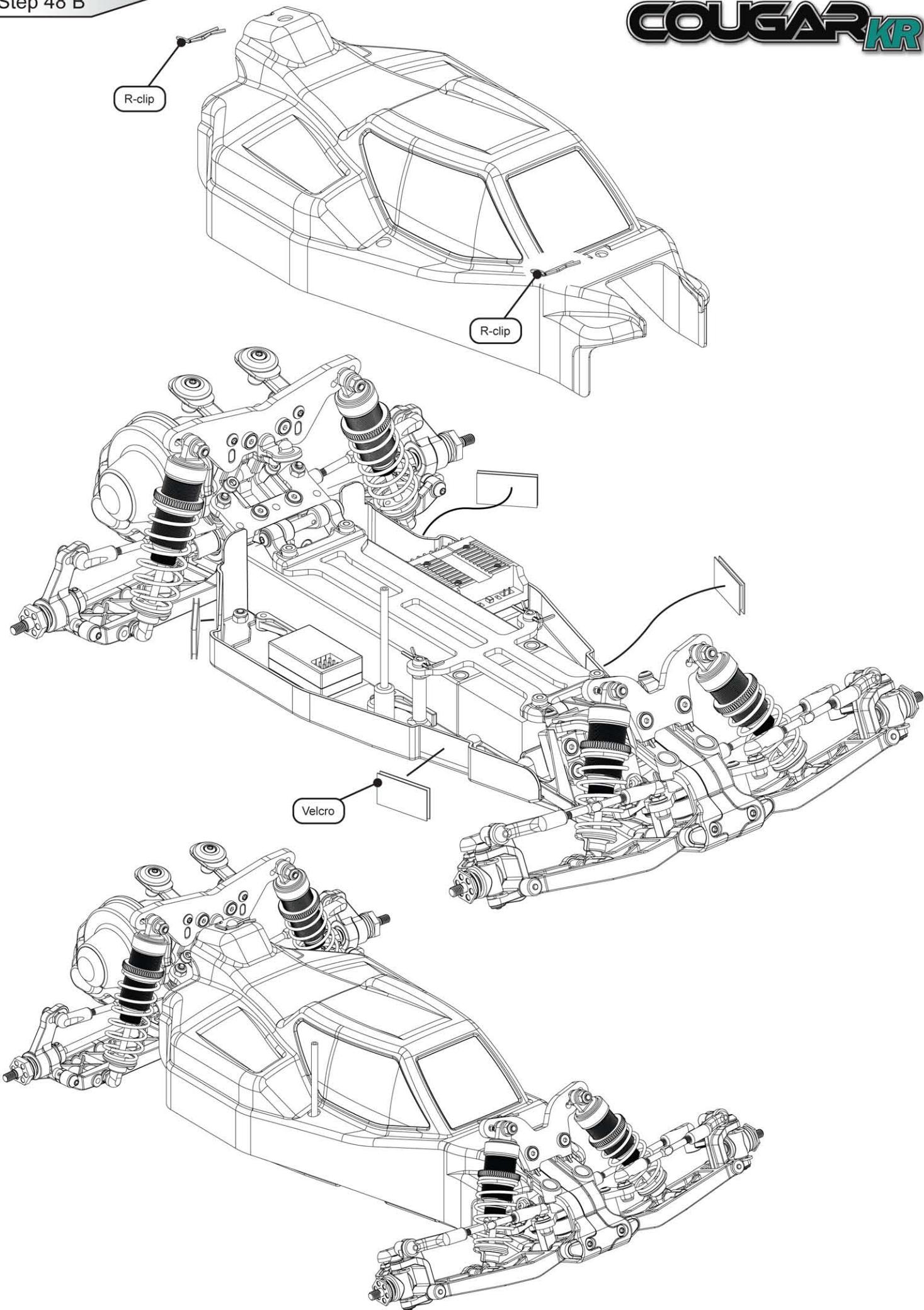




To install the LiPo spacer and LiPo batteries remove the R-clips from the top deck posts and the front top deck pin then remove the pin.

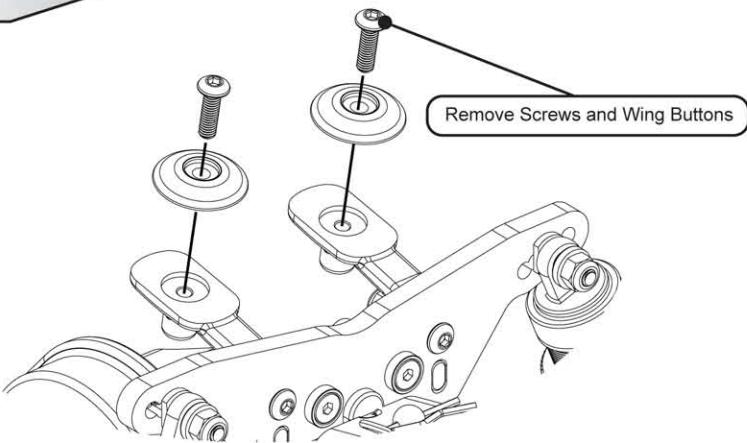
Lift the Topdeck up and out of the way. Install the LiPo spacer and LiPo battery, then close the top deck down and replace the R-clips.



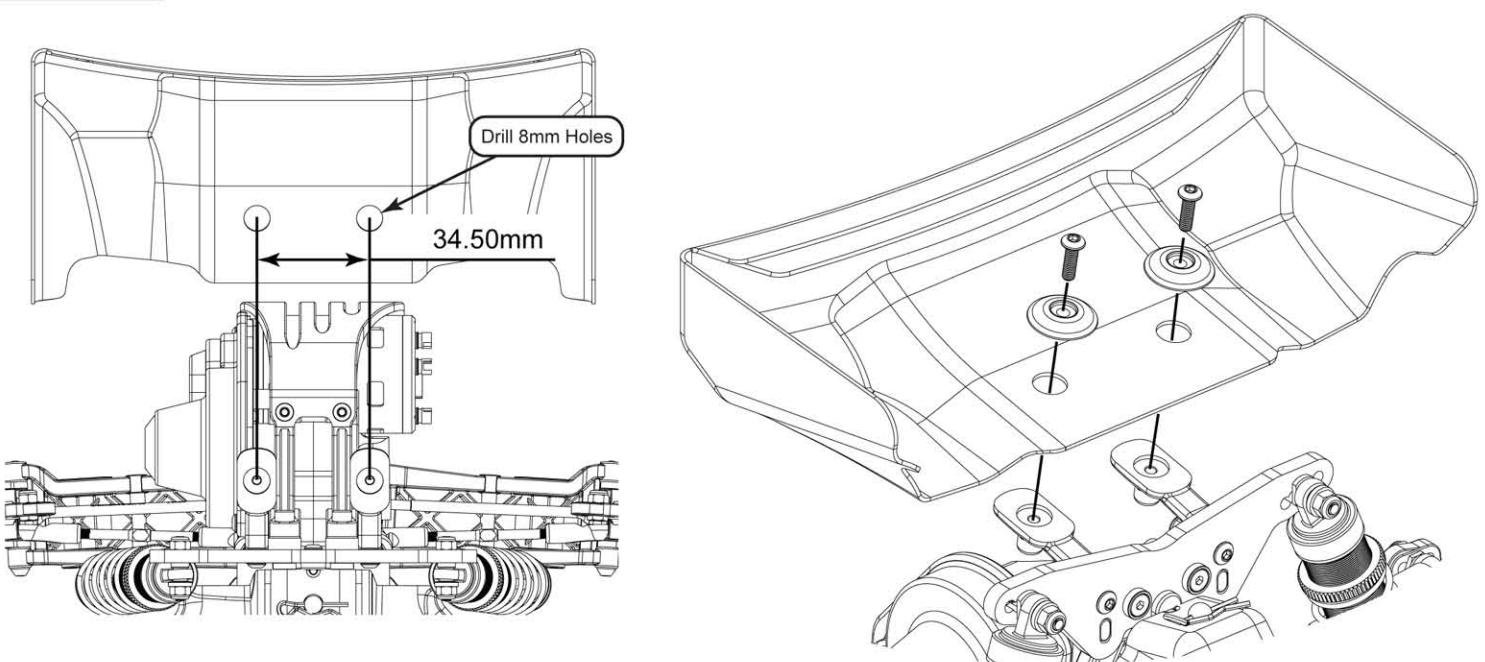


Step 49 A

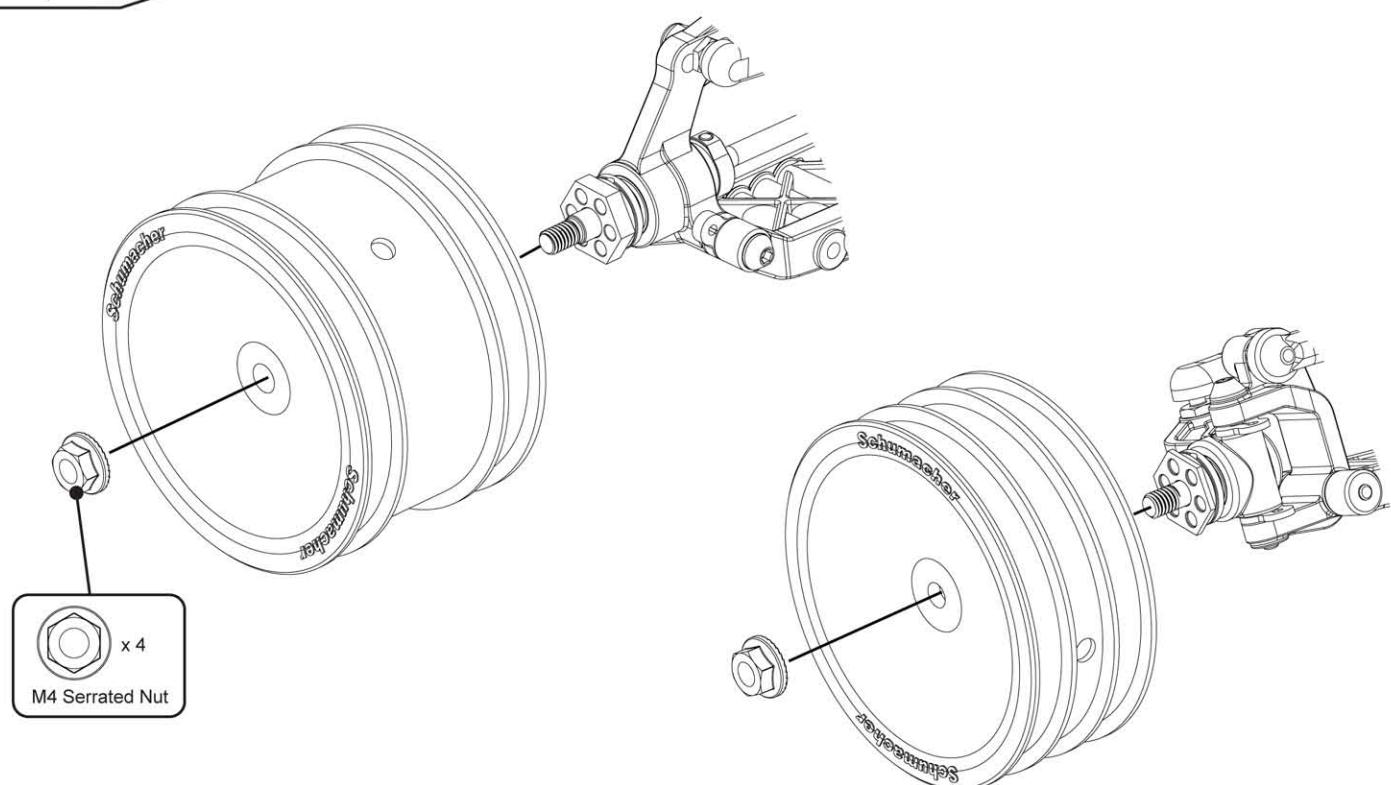
COUGAR KR

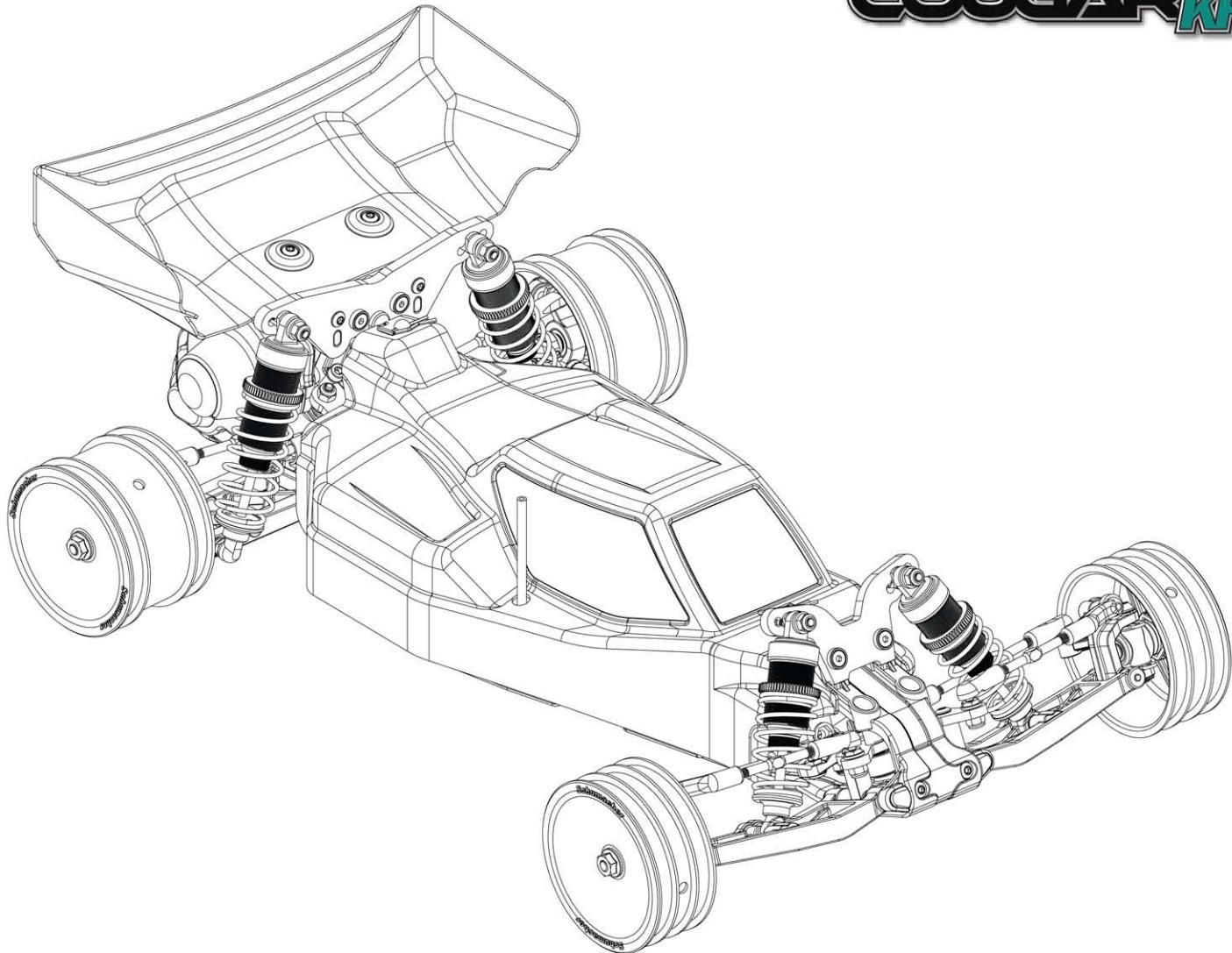


Step 49 B



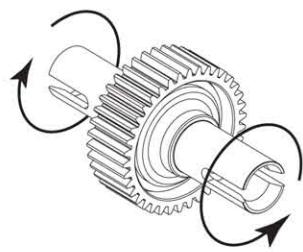
Step 50





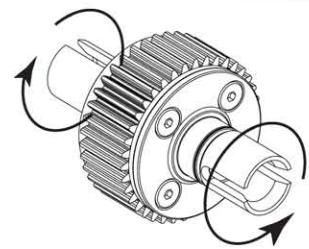
Ball Differential

For consistent performance it is vital that the differential action should be smooth and free. Diff adjustment is not a tuning aid and the diff should never be allowed to slip. A loose diff can usually be recognised by a "chirping" sound when powering away from turns or landing under power from large jumps. When rebuilding your ball differential we recommend using a U1954 thrust race and U3019 Ceramic Nitride balls for ultimate reliability and weight saving.



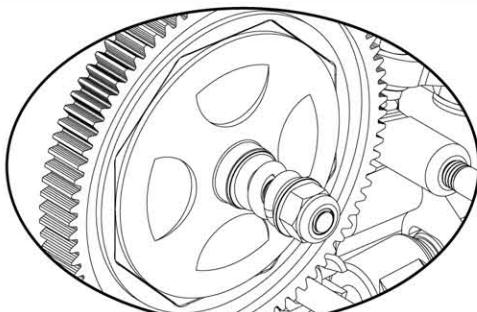
Gear Differential

Geared Diffs can give different driving characteristics. The handling of the diff is tuned by changing the oil. A recommended starting point is 2000 cSt (CR216). Recommended option oils would be 3,000 cSt (CR217) and 1000 cSt (CR214). Changing to a thinner oil will give the car more straight line drive, thicker oil will give the car more stability.



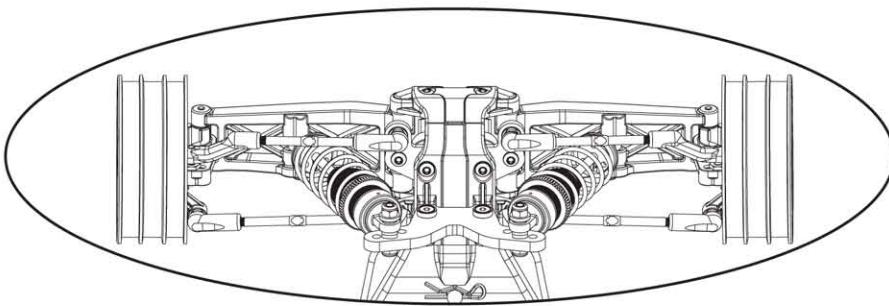
Slipper Clutch

On most tracks it is best to start with the slipper on a tight setting, and gradually loosen the spring tension, until you achieve the most consistent drive away from turns without spinning the car or pulling wheelies. Make sure you still have enough drive when launching the car from the up ramps. **WARNING**, do not run the slipper too loose as it could melt the plastic spur gear.

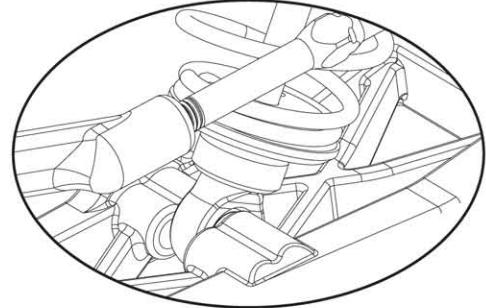


Front Toe In

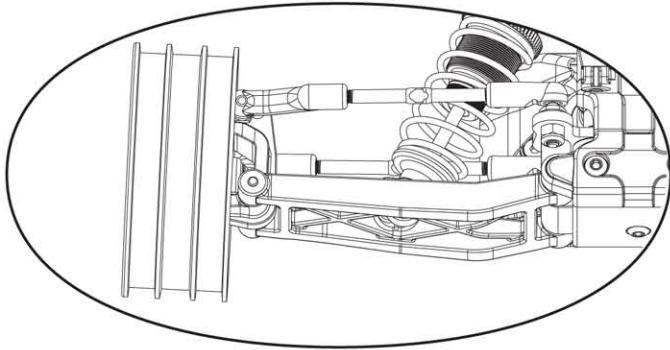
Front toe in should be set to 0° (both front wheels pointing straight ahead) this will be the best setting for most track conditions. Adding slight toe out will increase initial turn in. Whereas slight toe in will make this initial turn in a little softer.

**Front Wishbone Shock Mounting Hole**

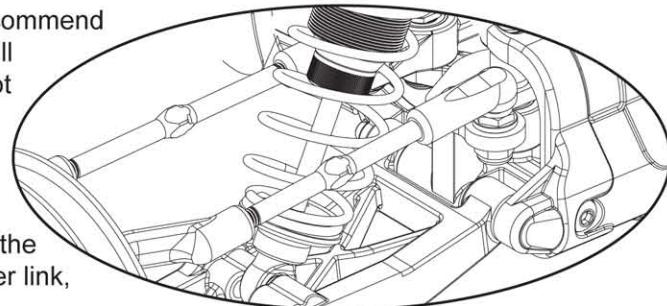
The inboard hole on the wishbone is the standard setting for most tracks. Moving the shock out to the outer hole makes the car less reactive. It decreases the initial turn in and keeps the front of the car flatter through the turns. This setting also makes the front end stiffer and reduces the front suspension travel.

**Front Camber**

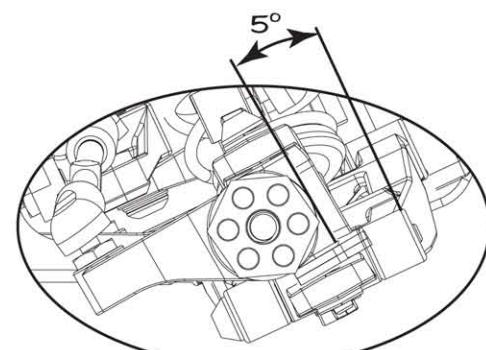
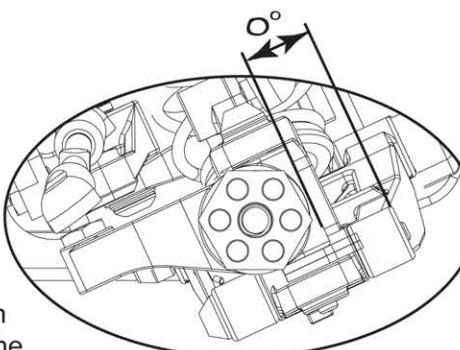
The usual team setting for static front camber is $1\text{--}2^\circ$ negative at ride height (the top of the wheel is leaning inwards towards the car). Increasing the static camber will generally increase the mid corner steering, whereas decreasing the static camber usually makes the car smoother to drive by reducing the steering response.

**Front Camber Links**

The kit front camber link position and length are what the Team recommend for most tracks. Using a long front link makes the front of the car roll more and will give less steering reaction at high speed. It is also not quite as good on very bumpy tracks. We would probably recommend this on fairly smooth high grip tracks. A shorter front link will make the car roll less and quicken the initial steering response. This is a better choice for bumpy low grip tracks. Lowering the inside ball stud will give a similar result to shortening the link, and raising it will give a similar result to lengthening the camber link, but with less total effect.

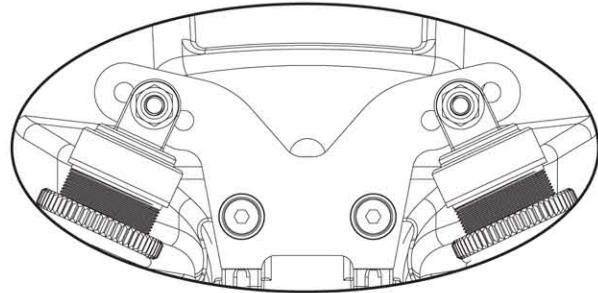
**Front Yoke**

The rake angle (kick up) is 25° on the cougar and needs adding to the castor block angle to get the total castor angle. The standard car uses a 0° castor block making the standard car 25° in total; this can be increased to 30° by using the optional 5° castor block. Using more castor gives better corner entry steering but less power on steering at corner exit, and will make the steering feel a little softer than when using the standard 25° setup.



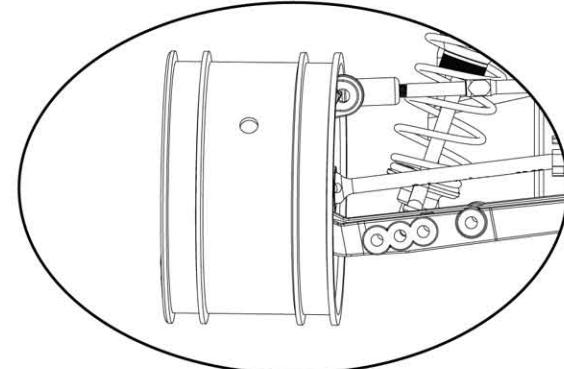
Front Shock Mount

The middle hole on the front shock mount is the most widely used position. Moving the shock to the outer position will make the car react faster and increase the initial steering response, it may however stiffen the suspension which may require an oil and spring change so that the cars suspension feels the same. By moving the shock to the inner hole will soften the suspension and slow down the steering reaction and make the car smoother on bumpy tracks. Again you may need to alter the oil and spring combination to get the suspension correct again.



Rear Camber

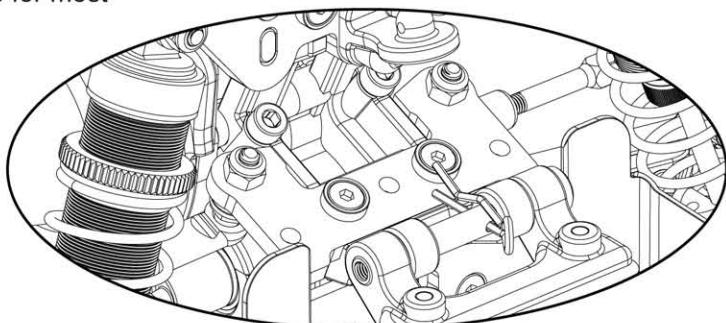
The usual team setting for static rear camber is 1-2° negative at ride height (the top of the tyre leaning inwards towards the car). Increasing the static rear camber will increase the traction when exiting the turns, but will be less stable at high speed. Decreasing the camber will reduce stability and traction in the turns but will be more stable at high speed. (Some drivers believe that adding slight positive camber where the tyre leans out at the top away from the car, will improve straight line traction on loose surfaces)



Rear Camber Links

The kit build rear camber link setting is the best compromise for most tracks. This link option gives good stability and straight line traction while allowing the rear of the car to free up on high speed turns. This reduces power-on understeer on high grip tracks.

Shortening the rear camber link will make the rear of the car roll less in the corners and square up faster when accelerating away from tight turns, longer links are generally used on high grip tracks and shorter links on low grip tracks. Lowering the inside ball stud will give a similar result to shortening the link, and raising it will give a similar result to lengthening the camber link, but with less total effect.

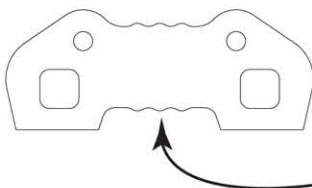


Rear Anti-Squat

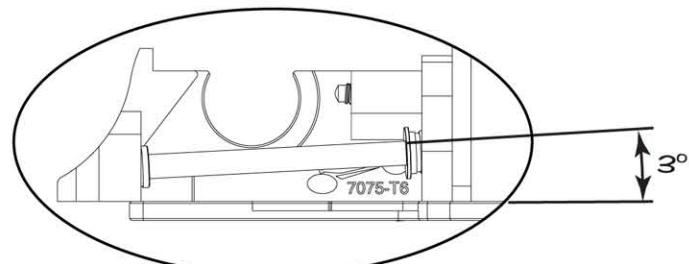
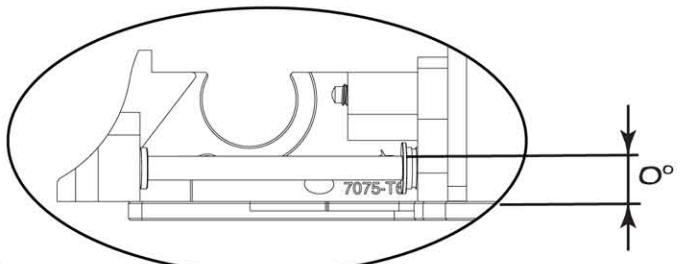
The standard anti-squat is 3°.

With optional parts this can be adjusted to 2°, 1° or 0°.

Anti-squat allows the suspension to work better over the large bumps but usually gives less power on traction. Adding more anti-squat gives more forward traction up to the point where the car starts to pull wheelies. Backing off the slipper is not always an option to compensate for this as good initial bite is needed to clear big jumps. Adding anti-squat seems to make the car handle better over small ripples but not so good on the tracks with large bumps. The Team have found that 3° works well on most tracks.

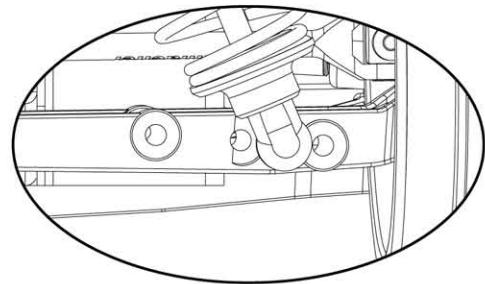


The C/F plates have bumps underneath to indicate how much anti-squat you are running, three bumps = 3°



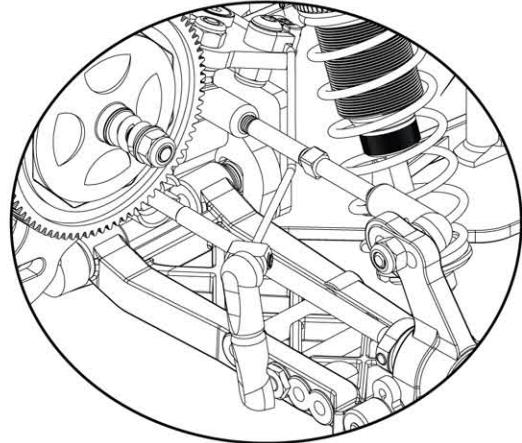
Rear Wishbone Shock mounting Hole

The Middle hole works best for most track conditions giving good traction and drive through the turns whilst maintaining good stability over the bumps. Moving to the outer hole on the wishbone will decrease traction but will allow the rear to free up more in the turns. This setting would usually only get used on high grip tracks and when moving the shock out you may have to change the oil and spring settings to get the same suspension feel.



Speed Secrets - Anti Roll Bar

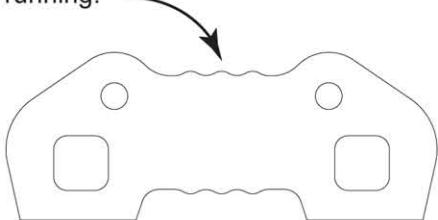
Anti roll bars are an often overlooked set up aid that allows fine tuning of the suspension without major changes to the shock and spring settings. They are mainly used to add roll stiffness to the car without affecting the handling on bumps and jumps. Running roll bars allows you to run softer suspension on bumpy tracks while reducing the roll in corners thus maintaining stability through the turns.



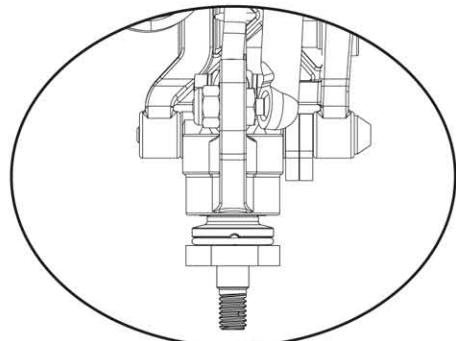
Rear Toe In

The standard rear toe in is 3° , this is a good compromise between forward traction and the car binding in the turns, this setting is fine for most tracks. If you are running too much toe-in your car may suffer from instability at high speeds, decreasing the toe in will reduce forward traction but will free the car up in the turns. Usually the Team use less toe in on high grip tracks and more for low grip tracks.

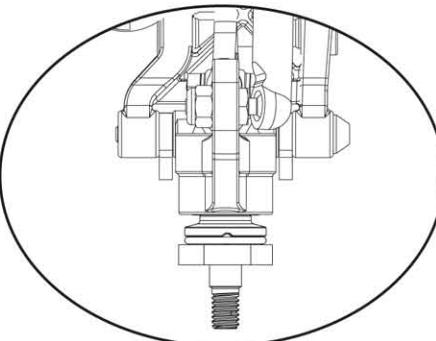
The C/F plates have bumps on top to indicate how much rear toe-in you are running.
Three bumps = 3°



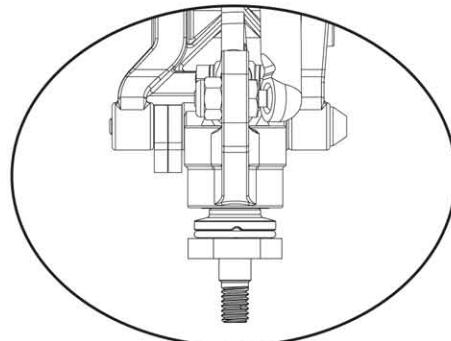
Wheelbase Options



Long
Wheelbase



Med
Wheelbase

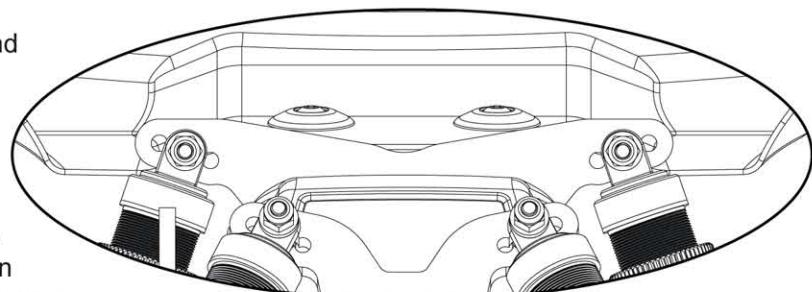


Short
Wheelbase

The Cougar KR has 3 wheelbase options, short, med and long. This is adjusted by repositioning the kwik clips at the rear hub carrier. Both clips at the rear moves the hub forwards for short wheelbase. Both at the front for long wheelbase and one either side for med wheelbase. Running the car in short wheelbase will give more traction at the expense of stability over rough sections of the track. For better stability over the rough section run the car in long wheelbase form this will also free up the car on sweeping sections of the track.

Rear Shock Mount

The middle hole on the shock mount gives best all round results. Moving the shock to the outer hole will stiffen the suspension and increase the reaction of the steering. The downside is less compliance over bumpy sections of the track. Moving the shock to the inboard position softens the suspension and will slow the steering reaction making the car smoother over the bumps. Moving the shock to these holes may require an oil or spring change to maintain the suspension performance.

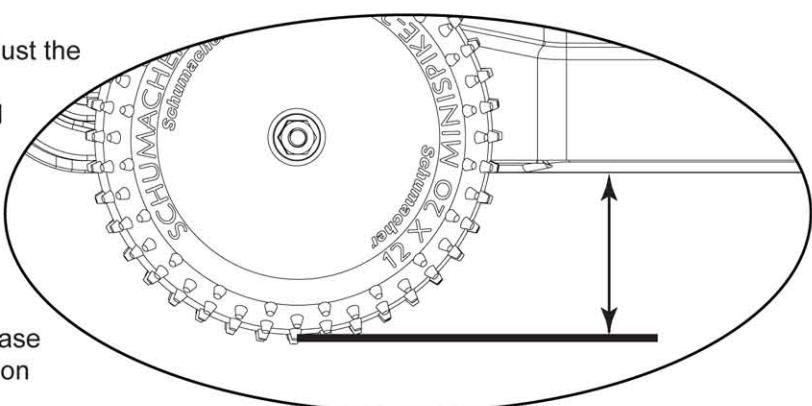


Ride height

Use the spring adjusters on the shock absorbers to adjust the front and rear ride heights.

We would recommend setting the ride height to around 23 mm with the car level. This is measured between the bottom of the chassis and the ground with the car in running trim. First press the car down on to the ground and release it once or twice to settle the suspension before adjusting the ride height. The chassis should be level when viewed from the side.

Adjusting the spring collars does not increase or decrease the spring stiffness only the preload. So if the suspension needs to be softer or harder change the spring.



Gear Ratio Chart

The Two Internal Gears in the Transmission are a 15 Tooth Layshaft Gear and 38 Tooth Differential Gear.

This makes the internal Gear ratio 2.53:1

The Below chart is the overall Ratios including the Spur Gear and Pinion Options.

The Maximum Tooth Sum Available is 112 teeth, the minimum is 98 teeth.

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
83	13.12	12.35	11.67	11.05	10.50	10.00	9.55	9.13	8.75	8.40	8.08	7.78	7.50	7.24			
82	12.97	12.20	11.53	10.92	10.37	9.88	9.43	9.02	8.64	8.30	7.98	7.68	7.41	7.15	6.92		
81		12.05	11.39	10.79	10.25	9.76	9.32	8.91	8.54	8.20	7.88	7.59	7.32	7.07	6.83	6.61	
80			11.24	10.65	10.12	9.64	9.20	8.80	8.43	8.10	7.78	7.50	7.23	6.98	6.75	6.53	6.33
76							8.74	8.36	8.01	7.69	7.39	7.12	6.86	6.63	6.40	6.20	6.00

U3414	Pinion; Hard Alloy 48dp - 14T	U2305	16T Steel Pinion - 48 D.P.	U3348	Gear; CNC 80t Spur - Slipper
U3415	Pinion; Hard Alloy 48dp - 15T	U2306	17T Steel Pinion - 48 D.P.	U3349	Gear; CNC 81t Spur - Slipper
U3416	Pinion; Hard Alloy 48dp - 16T	U2307	18T Steel Pinion - 48 D.P.	U3350	Gear; CNC 82t Spur - Slipper
U3417	Pinion; Hard Alloy 48dp - 17T	U2308	19T Steel Pinion - 48 D.P.	U3351	Gear; CNC 83t Spur - Slipper
U3418	Pinion; Hard Alloy 48dp - 18T	U2309	20T Steel Pinion - 48 D.P.	U3790	Gear; CNC 76T Spur - Slipper
U3419	Pinion; Hard Alloy 48dp - 19T	U2310	21T Steel Pinion - 48 D.P.	U4226	Gear; CNC 71T Spur - Slipper
U3420	Pinion; Hard Alloy 48dp - 20T	U2311	22T Steel Pinion - 48 D.P.		
U3421	Pinion; Hard Alloy 48dp - 21T	U2312	23T Steel Pinion - 48 D.P.		
U3422	Pinion; Hard Alloy 48dp - 22T	U2313	24T Steel Pinion - 48 D.P.		
U3423	Pinion; Hard Alloy 48dp - 23T	U2314	25T Steel Pinion - 48 D.P.		
U3424	Pinion; Hard Alloy 48dp - 24T	U2315	26T Steel Pinion - 48 D.P.		
U3425	Pinion; Hard Alloy 48dp - 25T	U2316	27T Steel Pinion - 48 D.P.		
U3426	Pinion; Hard Alloy 48dp - 26T	U2318	29T Steel Pinion - 48 D.P.		
U3427	Pinion; Hard Alloy 48dp - 27T				
U3428	Pinion; Hard Alloy 48dp - 28T				
U3429	Pinion; Hard Alloy 48dp - 29T				
U3430	Pinion; Hard Alloy 48dp - 30T				
U3431	Pinion; Hard Alloy 48dp - 31T				
U3432	Pinion; Hard Alloy 48dp - 32T				





Assembled Small Bore Shocks
U4152 - Front
U4153 - Rear

U4211 C/F Strap 0deg antisquat - 2deg Toe-In - SVR
U4212 C/F Strap 1deg antisquat - 2deg Toe-In - SVR
U4213 C/F Strap 2deg antisquat - 2deg Toe-In - SVR
U4214 C/F Strap 3deg antisquat - 2deg Toe-In - SVR



U3758
Steering Yokes 5 degree

U4081 C/F Strap 0deg antisquat - 3deg Toe-in - SVR
U4096 C/F Strap 1deg antisquat - 3deg Toe-in - SVR
U4097 C/F Strap 2deg antisquat - 3deg Toe-in - SVR



U3605
CNC Alloy Rear Hubs
1 degree (pair)

Purple Titanium Turnbuckles (pair)
U1573 - 53mm
U1574 - 60mm
U2566 - 45mm



U4085
Roll Bar Set



CORE RC
Serrated M4 Nuts
CR024 - Steel pk4
CR035 - Alloy Blue pk4
CR036 - Alloy Violet pk4
CR196 - Alloy Black pk4



U1300
Axle Grease
The best general grease
for many applications.



U1301
Silicone Diff Lube
The best lube for
ball diffs!



U1957
Moly Grease
The ultimate thrust
race grease!



Schumacher
Big Bore Spring Tuning Sets
U3673 - Medium (7 pairs)
U3674 - Long (6 pairs)

CORE RC
CR177 Big Bore Spring Tuning Set; Med 5prs
CR178 Big Bore Spring Tuning Set; Long 5prs



U3782
HD Shock
Diaphragms



Big Bore Standard
Shock Pistons
U3670 - 2 Hole Pistons (pair)
U3671 - 4 Hole Pistons (pair)
U3672 - 6 Hole Pistons (pair)



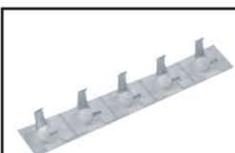
Big Bore Rounded
Shock Pistons
U3770 - 3 Hole Pistons (pair)
U3771 - 5 Hole Pistons (pair)



U4130 - Vented Shock Caps - Small Bore - (Pr)
U4209 - Vented Shock Caps - Big Bore - (Pr)



Medium Flex Wishbones
U4098 - Front Long (pair)
U4054 - Rear (pair)



U2856
Sticky Cable Clips
Pack of 10

G200
ZX1 ExtraLube
The Ultimate Friction
Eliminator.



U3611 CNC Alloy Spring Seat (pair)



U1954 Pro - Thrust Bearing
U3019 Diff Balls; Ceramic Nitride 2.5mm (pk12)
U3740 Diff Washers; 18mm - Cougar SV
U3855 Ball Bearing 5x10x3 Open (pr)
U4004 Diff Gear; 38T CNC - Cougar SV2
U4005 Diff Output; Female - Cougar SV2
U4006 Diff Output; Male - Cougar SV2
U4007 Diff; Assembled Pro Spec - Cougar SV2
U4040 Diff Screw Set Cougar SV2



U4394 Carbon Fibre Link Mount Options Front & Rear (Set 5)



U4228 Alloy Yokes
2WD - 5deg - Cougar



CORE RC
CR192 Alloy Servo Arm 25T - Futaba Short
CR193 Alloy Servo Arm 23T - Sanwa Short

Wheels, Tyres and Inserts

2WD Slim Cut Stagger



U6759 - Yellow Compound (pair)
U6765 - Green Compound (pair)

Low Profile
2WD Slim Cut Stagger



U6770 - Yellow Compound (pair)
U6771 - Green Compound (pair)
U6775 - Silver Compound (pair)
U6776 - Blue Compound (pair)

2WD Slim Mini Spike 2



U6549 - Blue Compound (pair)
U6550 - Green Compound (pair)
U6581 - Yellow Compound (pair)
U6761 - Silver Compound (pair)

2WD Slim Mini Pin



U6609 - Yellow Compound (pair)
U6779 - Silver Compound (pair)

Rear Mini Spike 2



U6516 - Green Compound (pair)
U6518 - Blue Compound (pair)
U6558 - Yellow Compound (pair)
U6763 - Silver Compound (pair)

2.2" Rear Full Spike



U6596 - Yellow Compound (pair)

Front Mini Spike 2



U6515 - Green Compound (pair)
U6517 - Blue Compound (pair)
U6557 - Yellow Compound (pair)
U6762 - Silver Compound (pair)

4WD Front Mini Pin



U6601 - Blue Compound (pair)
U6607 - Yellow Compound (pair)
U6777 - Silver Compound (pair)

Wheels

- U4365** Wheel Hex Rear - (black) - Off Road
- U4366** Wheel Hex Rear - (white) - Off Road
- U4367** Wheel Hex Front - (black) - 2wd
- U4368** Wheel Hex Front - (white) - 2wd



4wd Rear 2" Block



T692 - Blue Compound (pair)
U6786 - Yellow Compound (pair)

Rear Mini Pin



U6608 - Yellow Compound (pair)
U6602 - Blue Compound (pair)
U6778 - Silver Compound (pair)

	Tarmac	Carpet	Dry Astro	Dry Grass	Wet Grass	Wet Astro
2wd Slim Cut Stagger	U6759	●●	●●●	●●●		
	U6765				●●●	●●
2wd Low Profile Slim Cut Stagger	U6770	●●	●●●●	●●●●		
	U6771				●●●●	●●
	U6775				●●●●	●●●●
	U6776	●●				
2wd Slim Mini Spike 2	U6581	●●	●●●●	●●●●		
	U6550		●		●●●●	●●
	U6549	●●			●●●●	●●●●
	U6761				●●●●	●●●●
2wd Slim Mini Pin	U6609	●	●●●●	●●●		
	U6779				●●	●●●●
4wd Front Mini Spike 2	U6557	●●	●●●●	●●●●		
	U6517	●●●		●●●●	●●●●	
	U6515		●		●●●●	●●●●
	U6762				●●●●	●●●●
4wd Front Mini Pin	U6607	●●	●●●●	●●●		
	U6601	●●●●	●			
	U6777				●●●●	●●●●

2.2" Rear Full Spike	U6596			●●		
Rear Mini Spike 2	U6558	●	●	●●●●		
	U6518	●●●●			●●●●	
	U6516		●		●●●●	
	U6763				●●●●	●●●●
Rear Mini Pin	U6608	●●	●●●●	●●●		
	U6602	●●●●	●			
	U6778				●	●●●●
Rear 2" Block	U692	●●		●●●●		
	U6786			●●●●		

Excellent Grip ●●● Good Grip ●● Fair Grip ●

Off-Road Inserts

- CR141** Red Moulded Insert; 1/10 Off Rd Rear
- CR142** Red Moulded Insert; 1/10 Off Rd 4WD Front

- U6653** - GREY Foam Tyre Insert; Hard - Rear - CAT (pr)
- U6667** - GREY Foam Tyre Insert; Hard - Slim 2WD (pr)
- U6668** - WHITE Foam Tyre Inserts; Soft - Ultra Wide (pr)
- U6669** - GREY Foam Tyre Inserts; Hard - Ultra Wide (pr)
- U6733** - BLUE Foam Tyre Insert; Med - Front - CAT (pr)
- U6734** - BLUE Foam Tyre Insert; Med - Rear - CAT (pr)
- U6746** - BLUE Tubby Insert; Med Front - CAT (pr)
- U6747** - BLUE Tubby Insert; Med Rear - CAT (pr)
- U6738** - BLUE Foam Tyre Insert; Med - Slim 2WD (pr)

