CAT K1

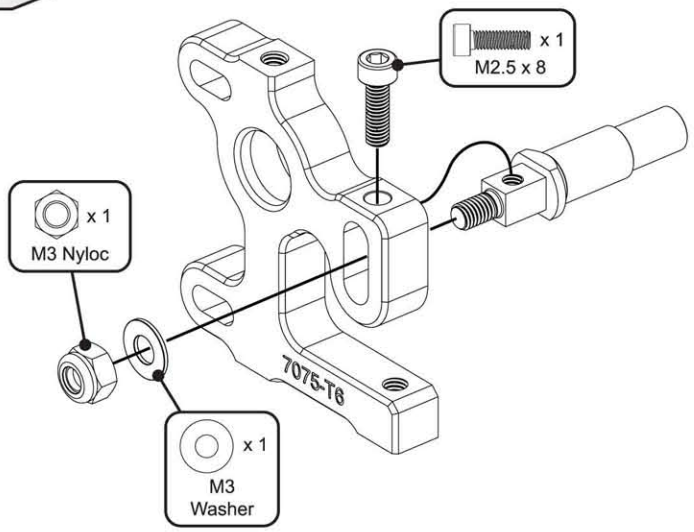
1/10TH Scale 4WD Offroad Electric Powered Buggy

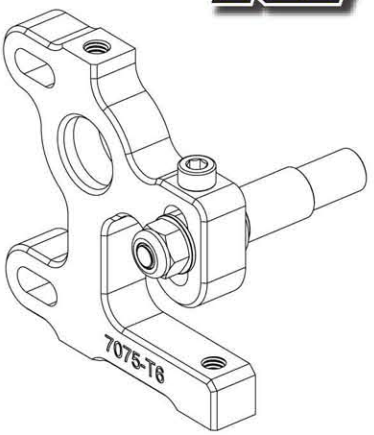
Instruction Manual v1.0



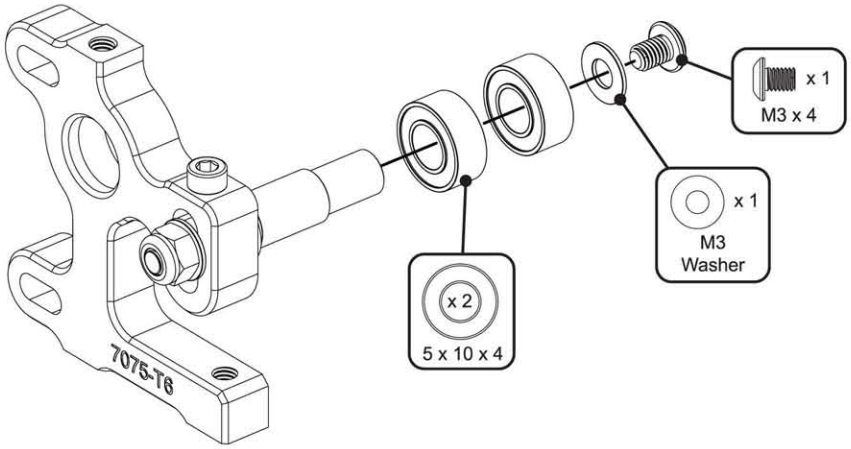
Schumacher Racing
71-73 Tenter Road
Moulton Park
Northampton
NN3 6AX
U.K
WWW.racing-cars.com

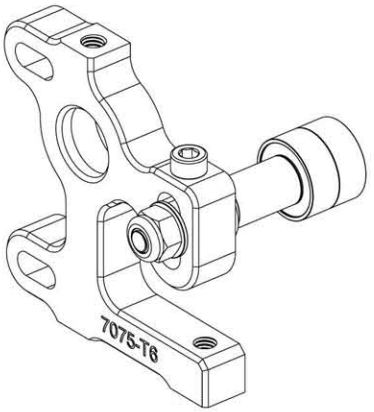
Step 1 A





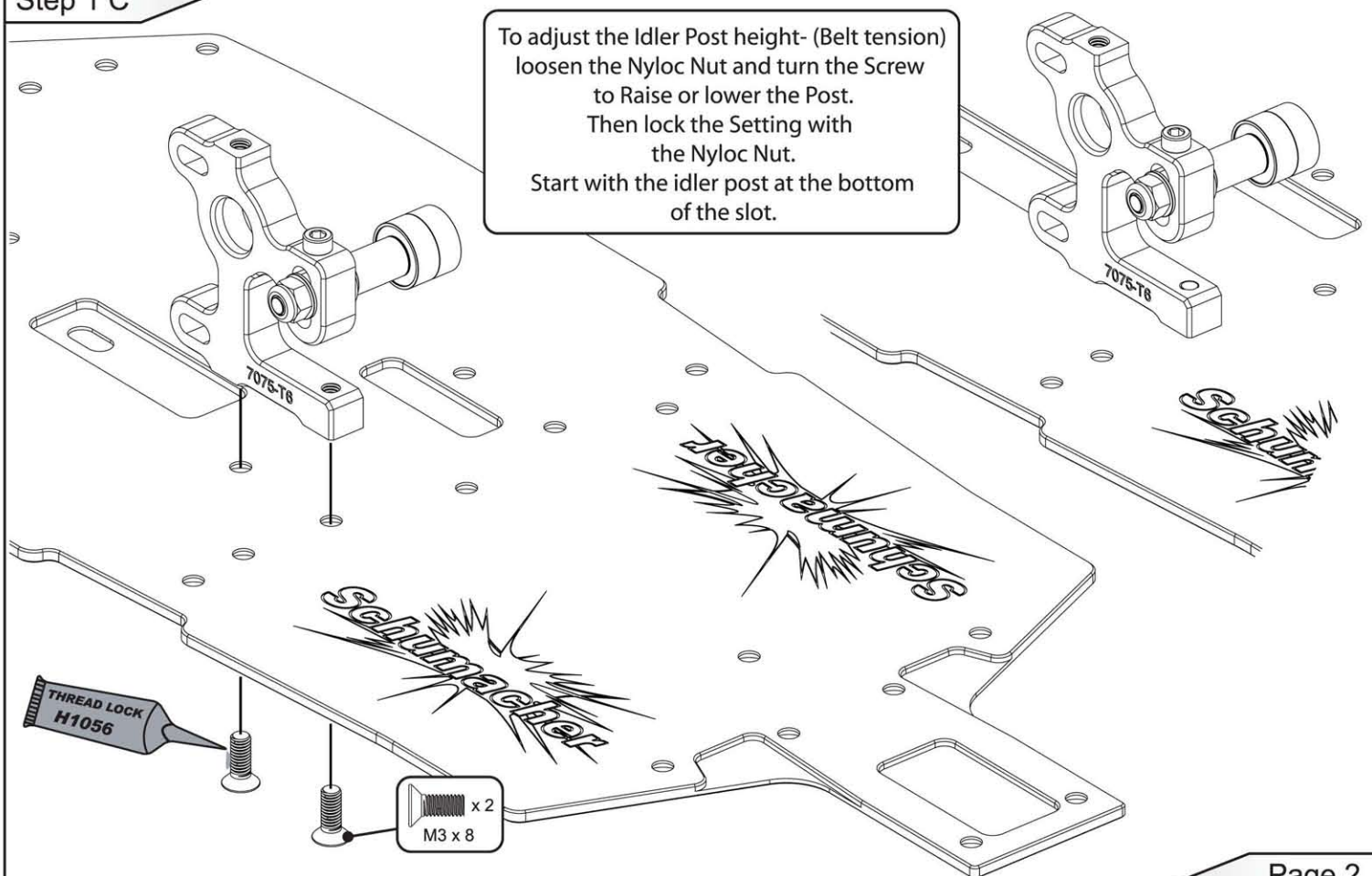
Step 1 B



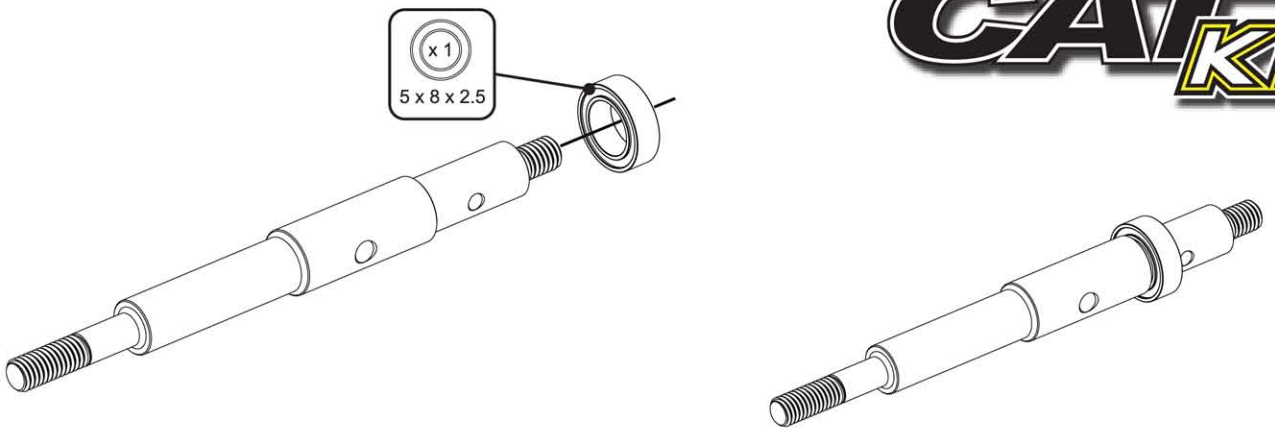


Step 1 C

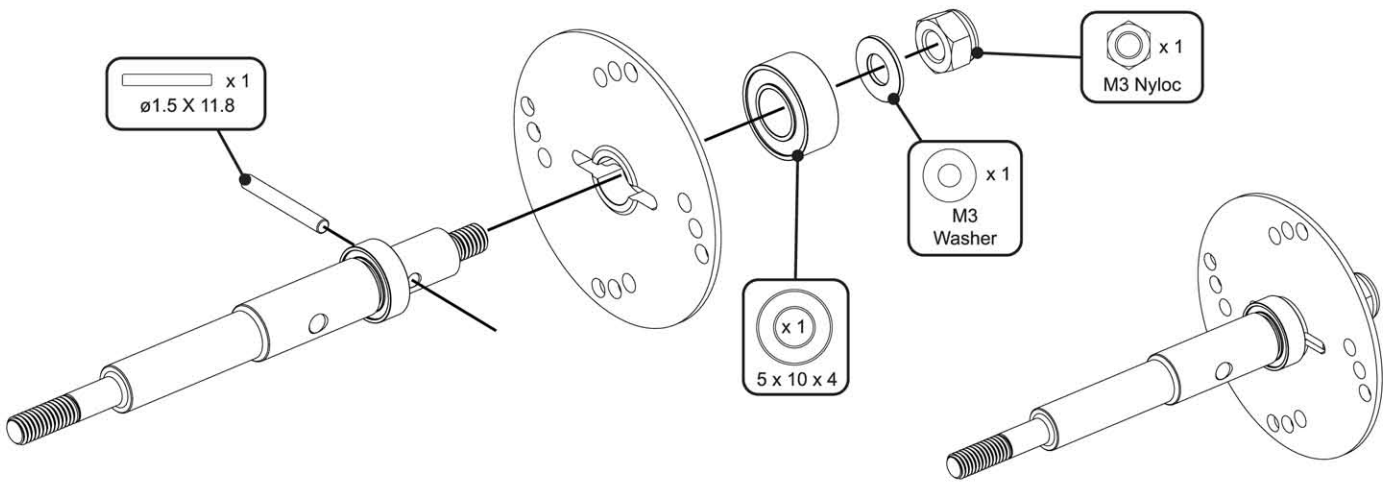
To adjust the Idler Post height- (Belt tension)
loosen the Nyloc Nut and turn the Screw
to Raise or lower the Post.
Then lock the Setting with
the Nyloc Nut.
Start with the idler post at the bottom
of the slot.



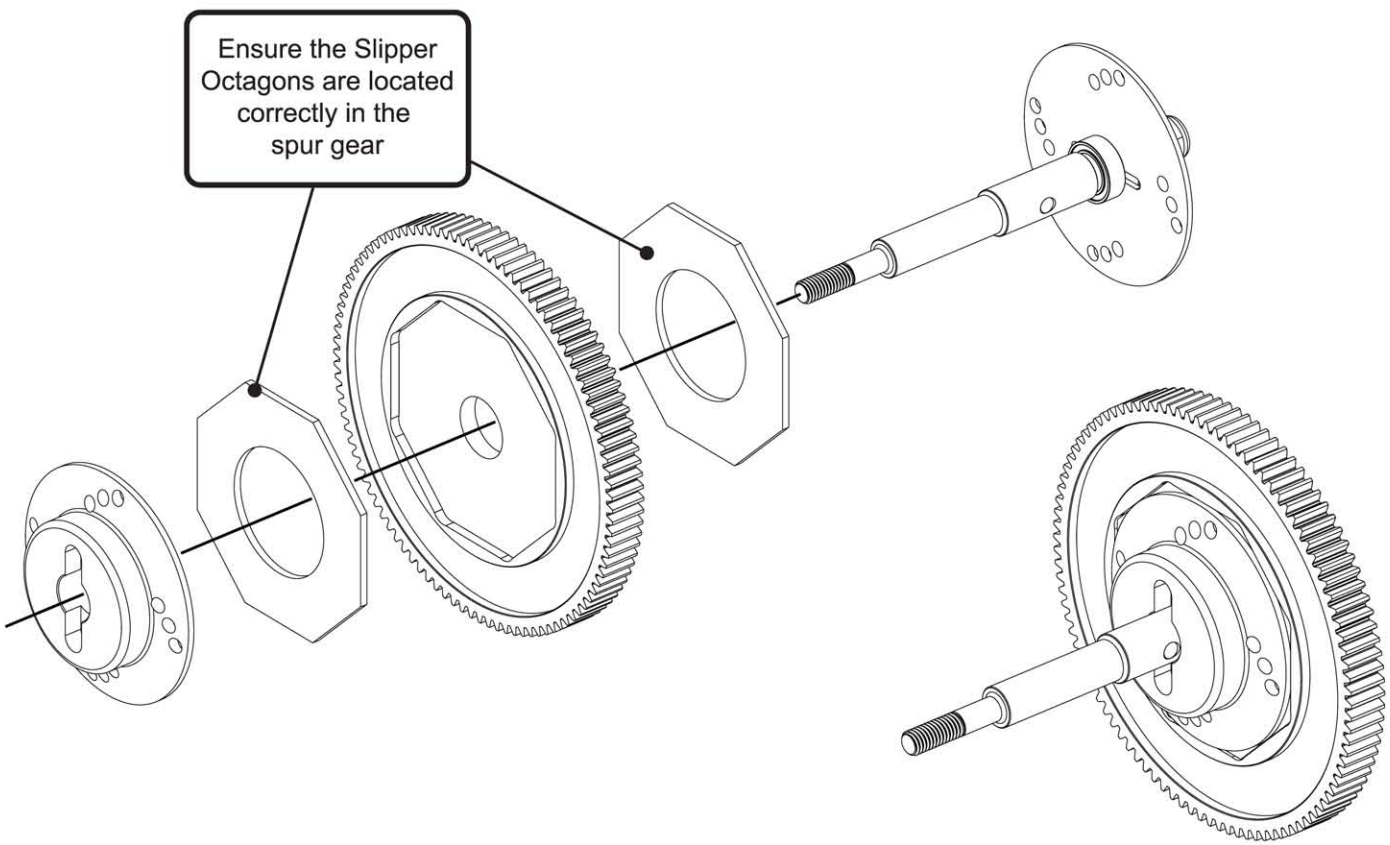
Step 2 A



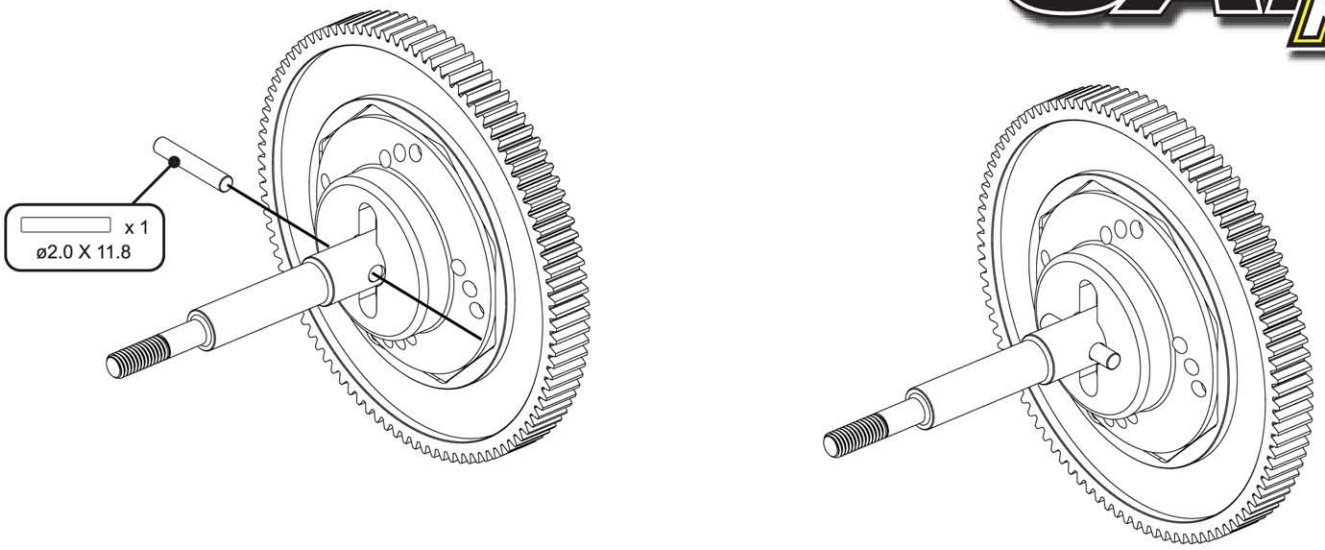
Step 2 B



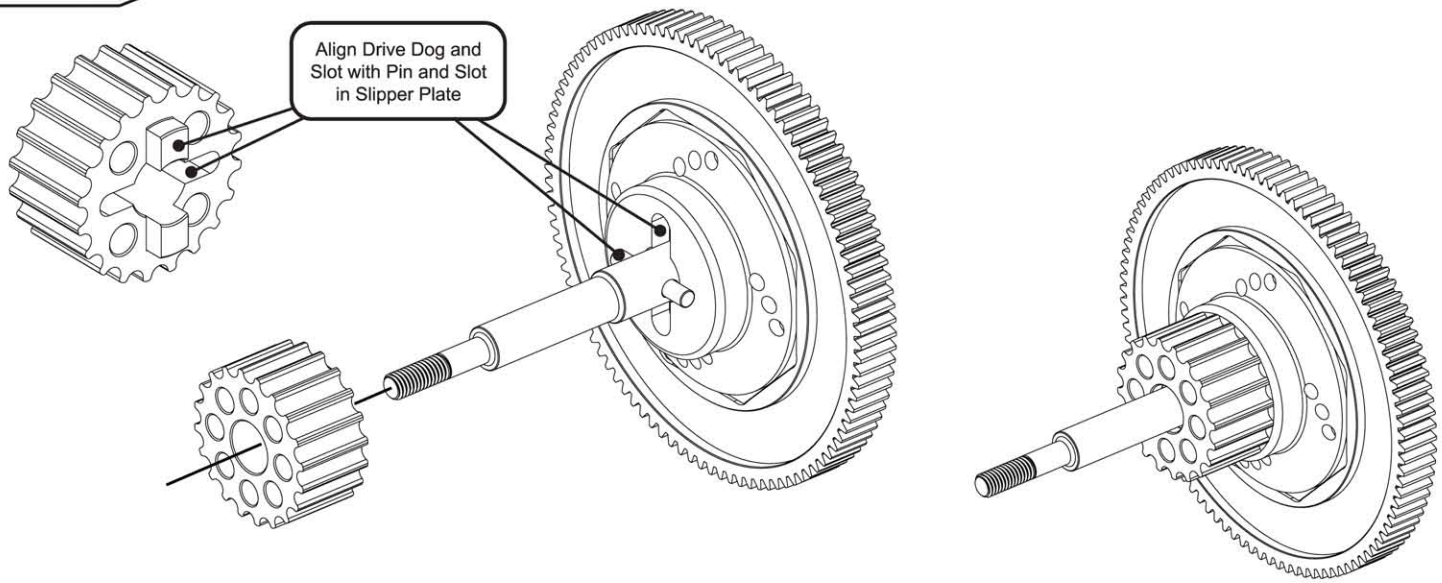
Step 3 A



Step 3 B

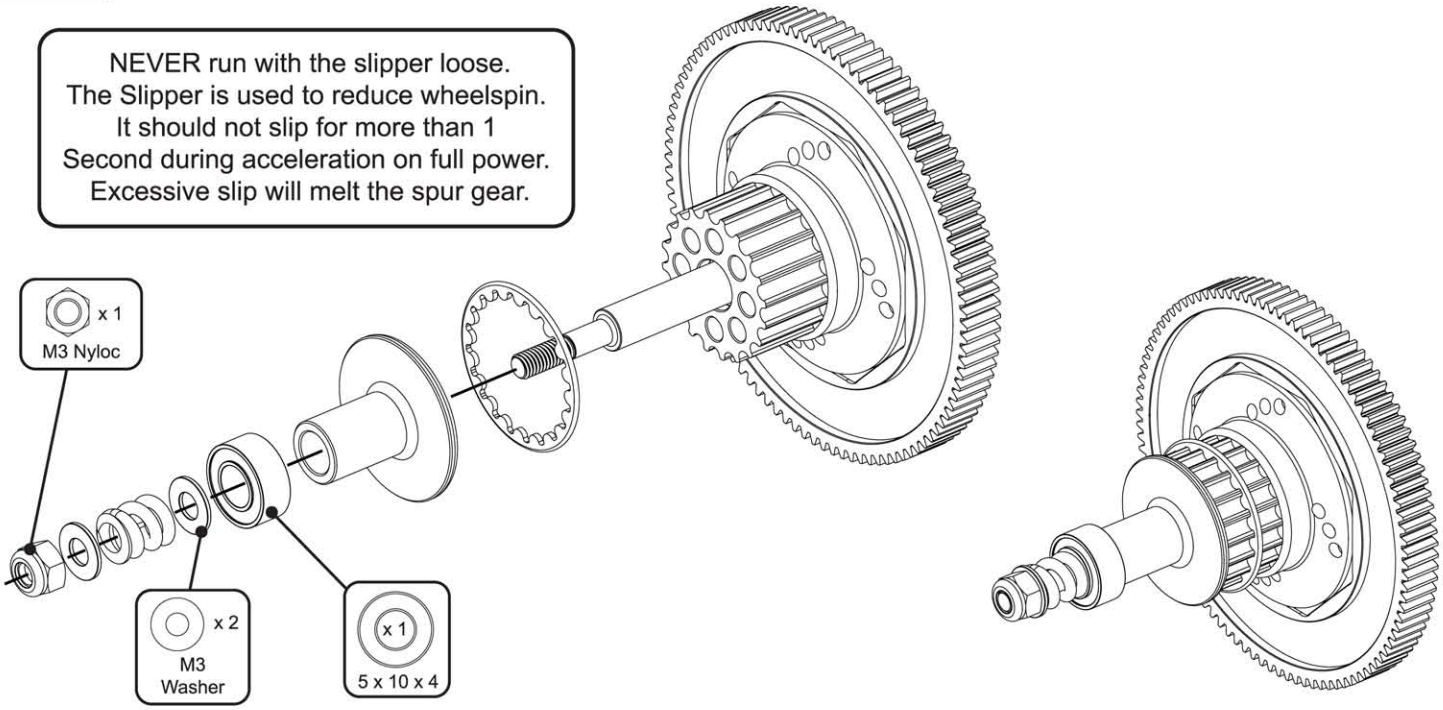


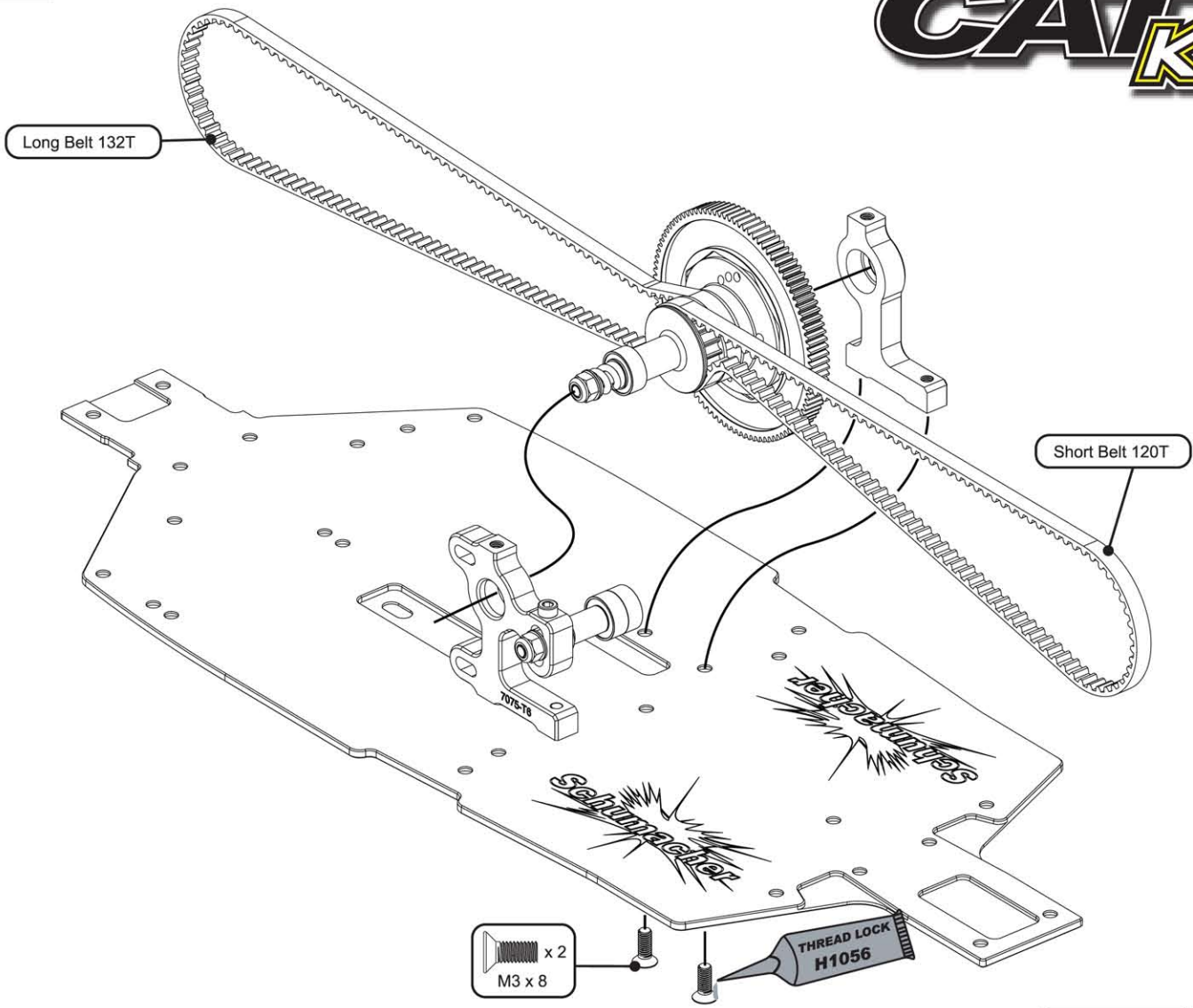
Step 3 C

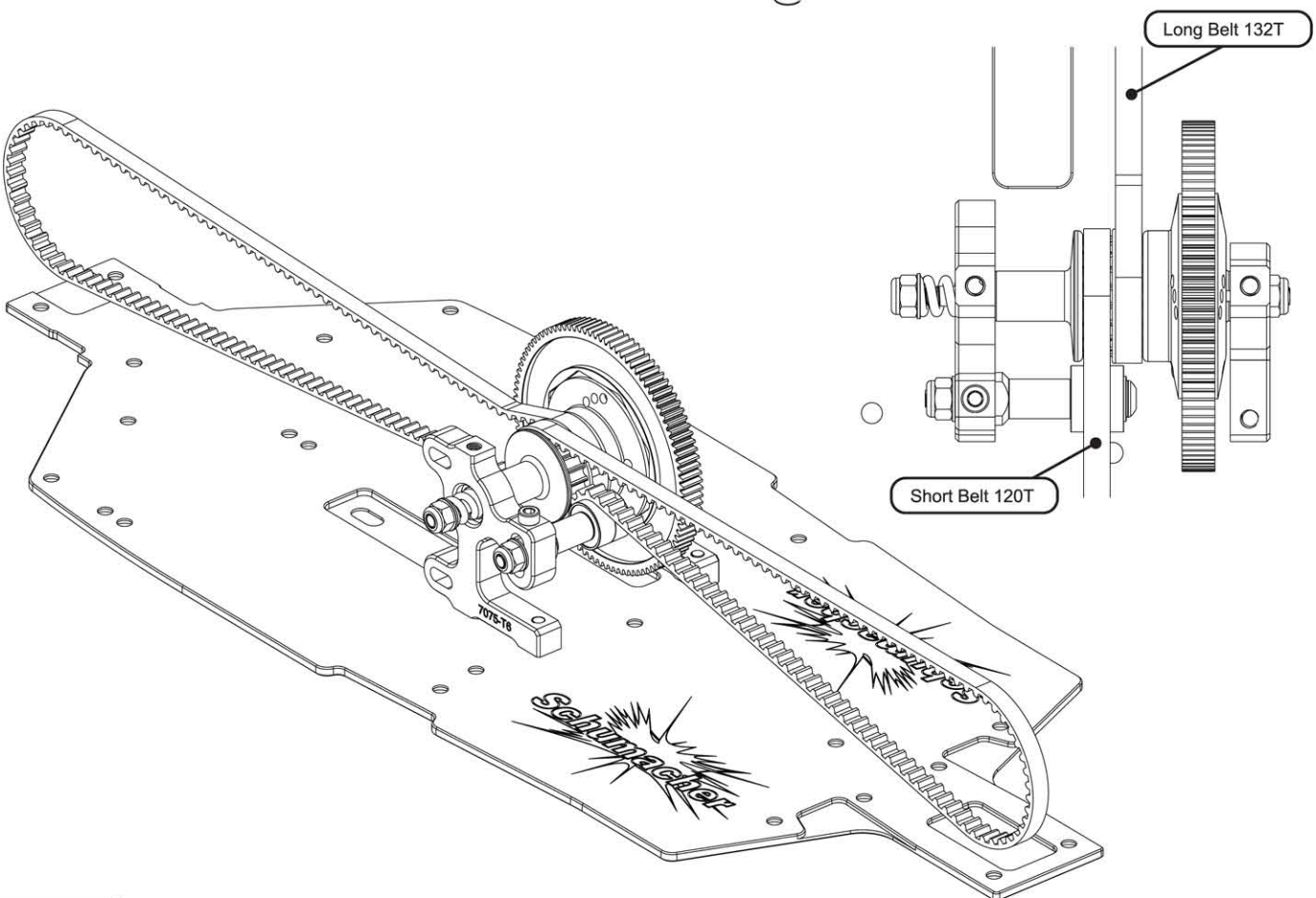


Step 4

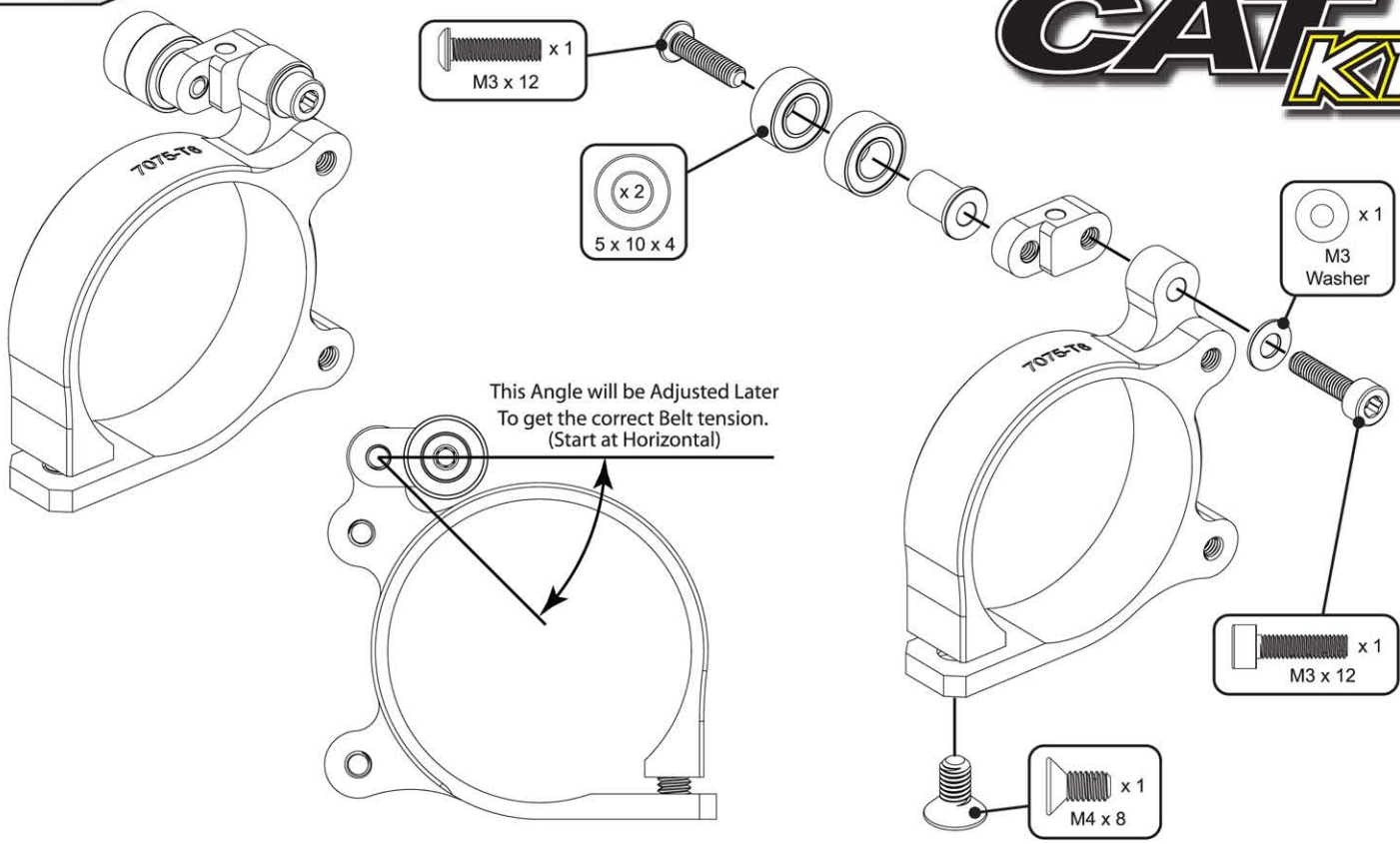
NEVER run with the slipper loose.
The Slipper is used to reduce wheelspin.
It should not slip for more than 1
Second during acceleration on full power.
Excessive slip will melt the spur gear.



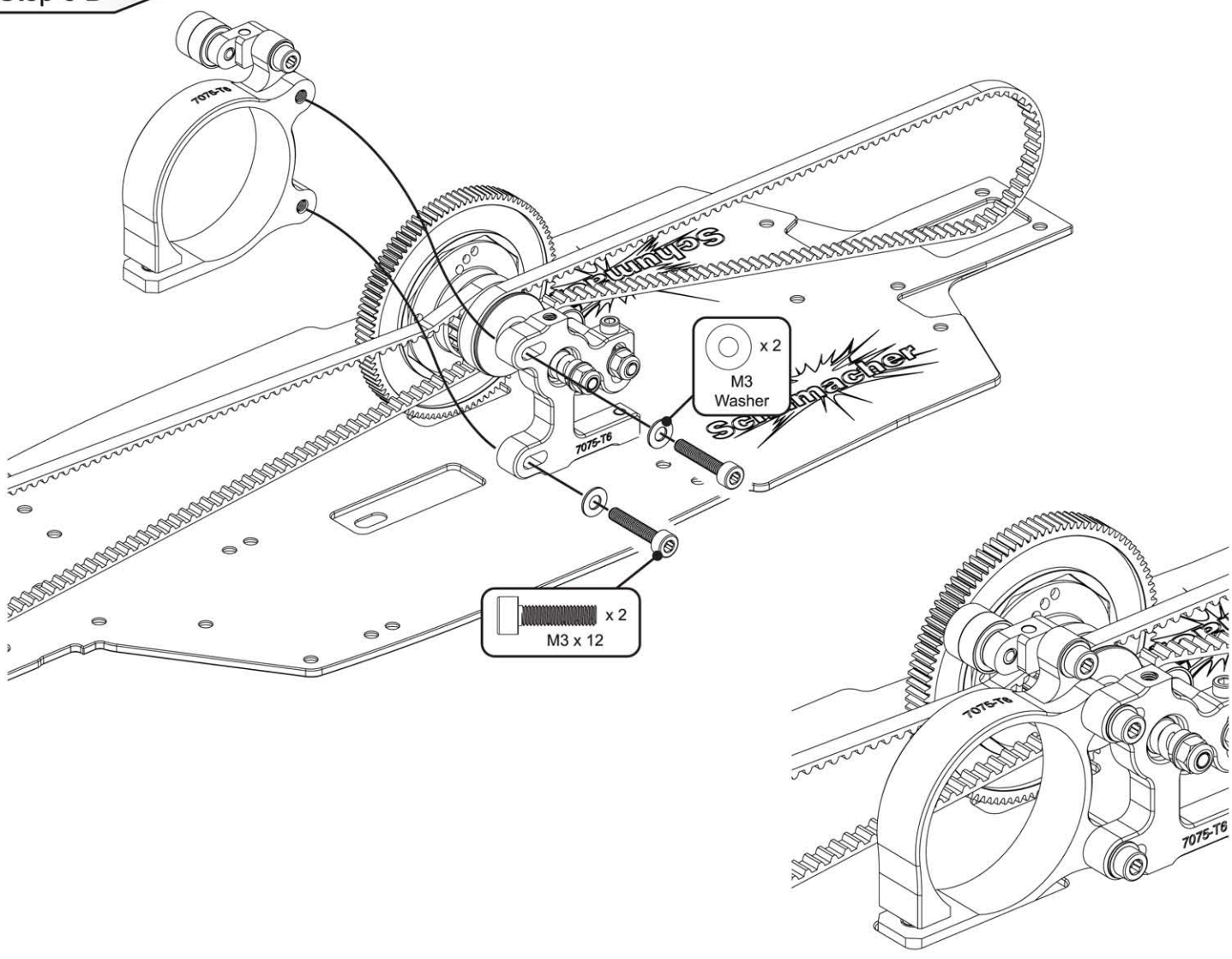

Long Belt 132T
Short Belt 120T
7075-T6
Sehtumacher
x 2
M3 x 8
THREAD LOCK
H1056

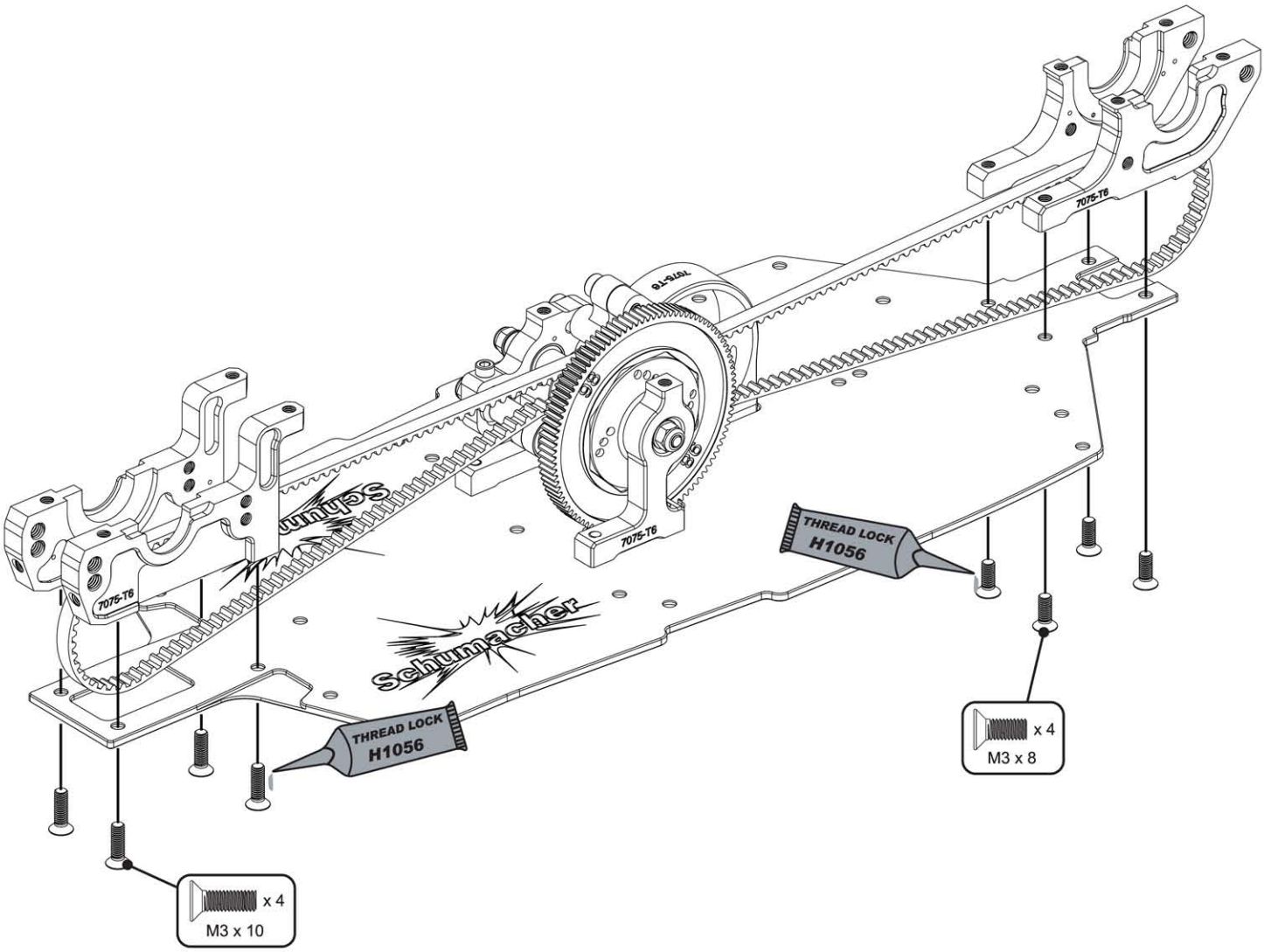

Long Belt 132T
Short Belt 120T
7075-T6
Sehtumacher

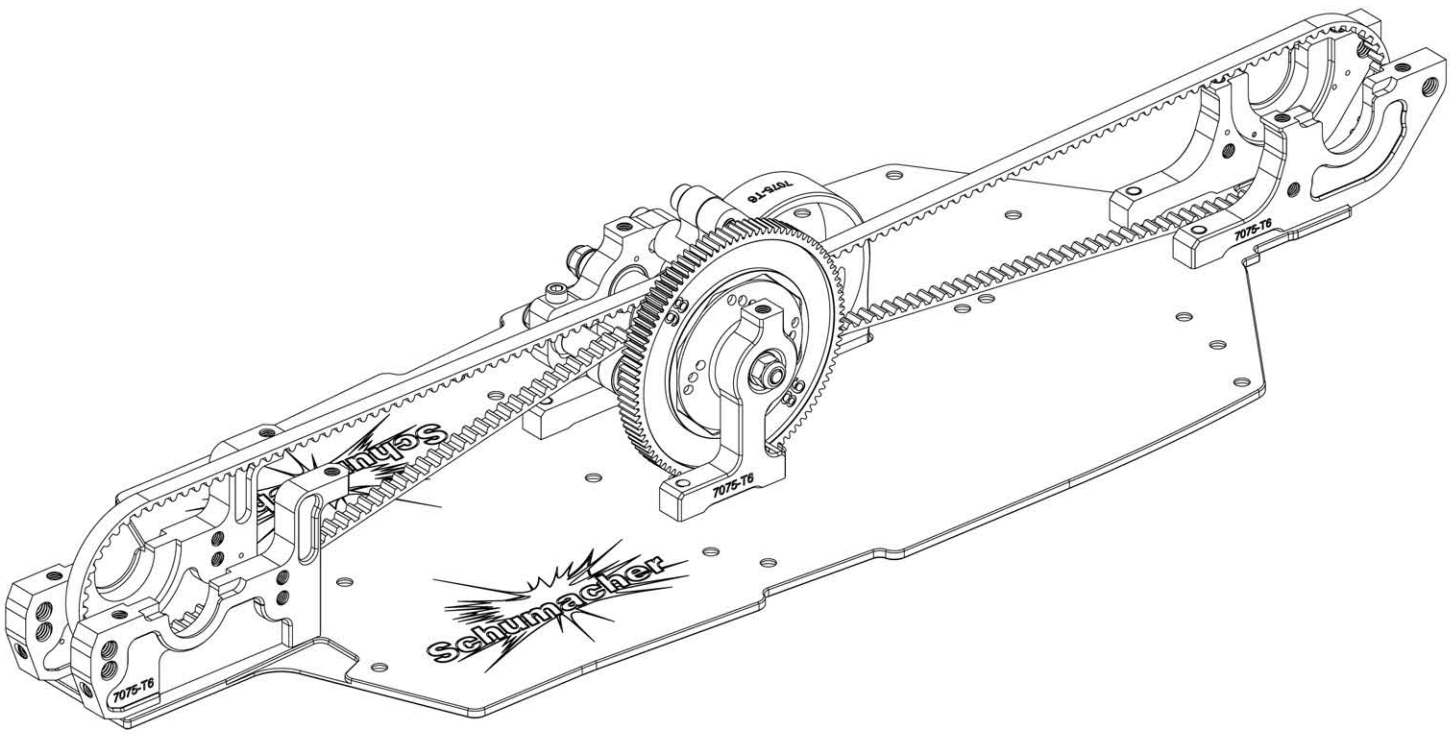
Step 6 A



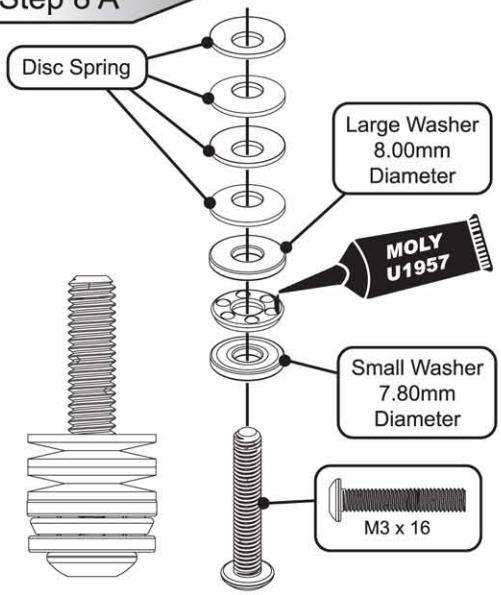
Step 6 B



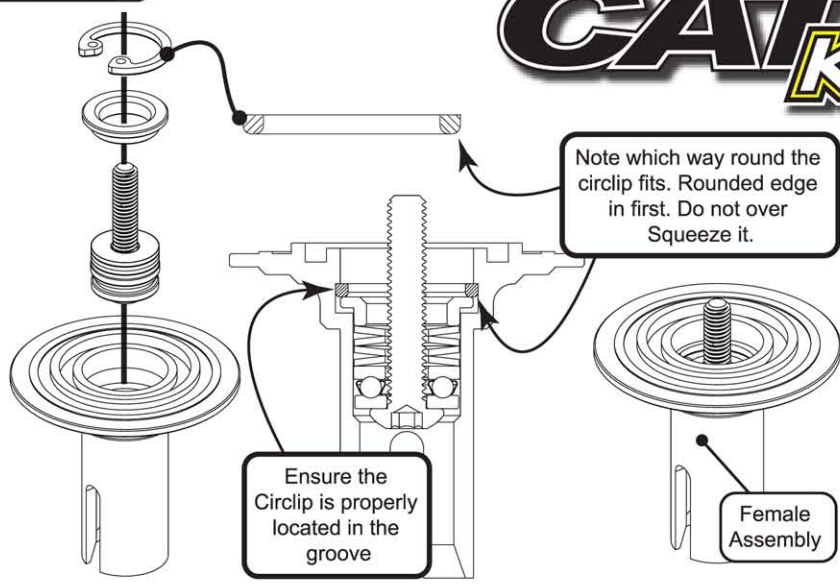

7075-T6
THREAD LOCK
H1056
THREAD LOCK
H1056
x 4
M3 x 8
x 4
M3 x 10


7075-T6

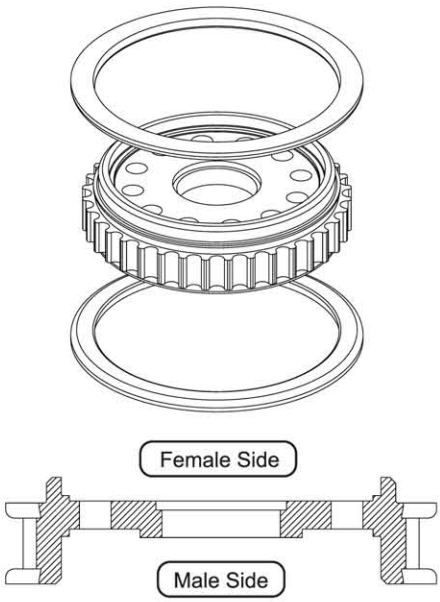
Step 8 A



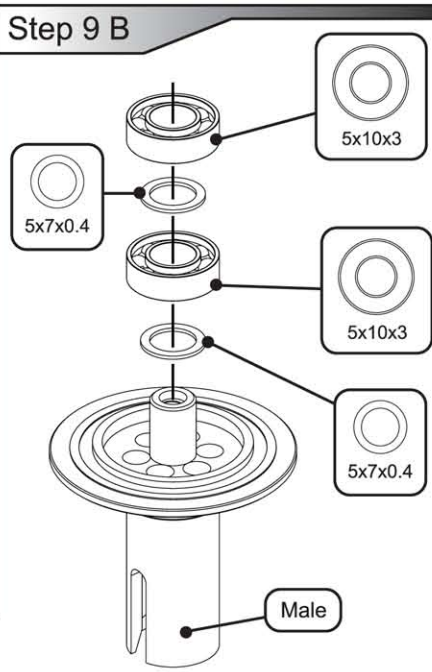
Step 8 B



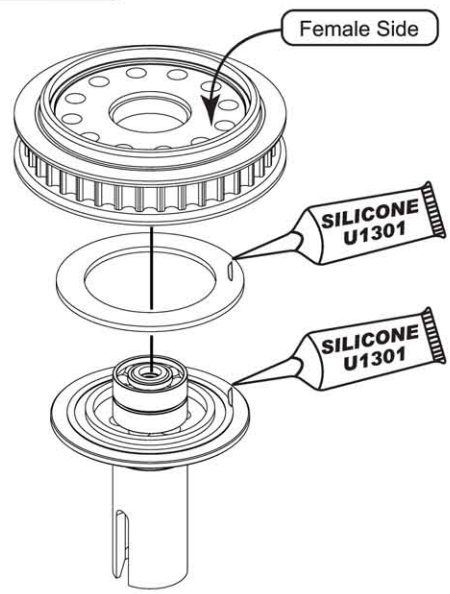
Step 9 A



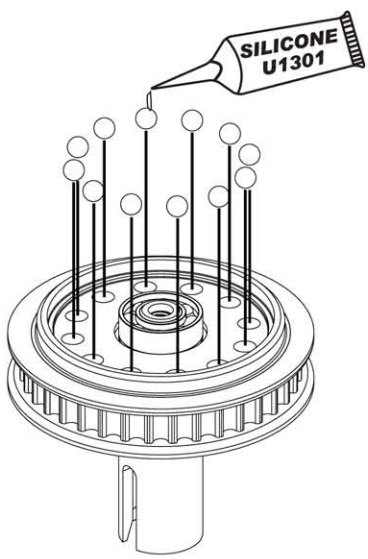
Step 9 B



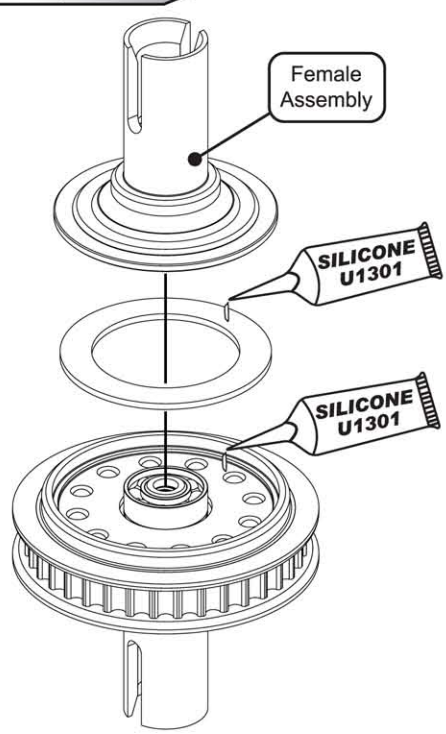
Step 9 C



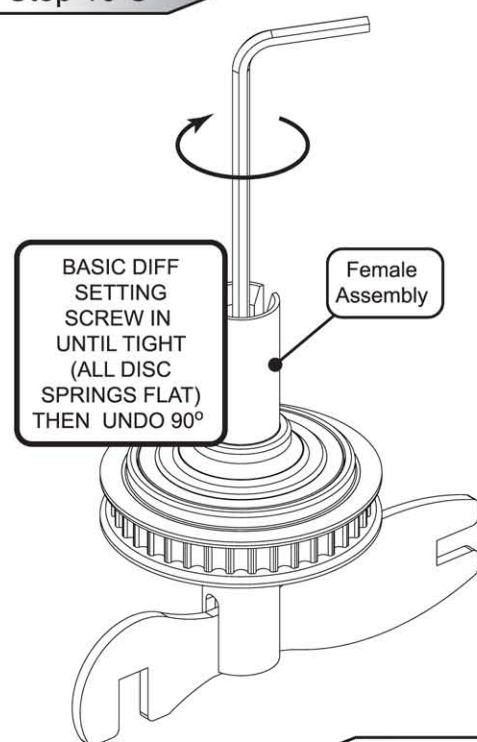
Step 10 A



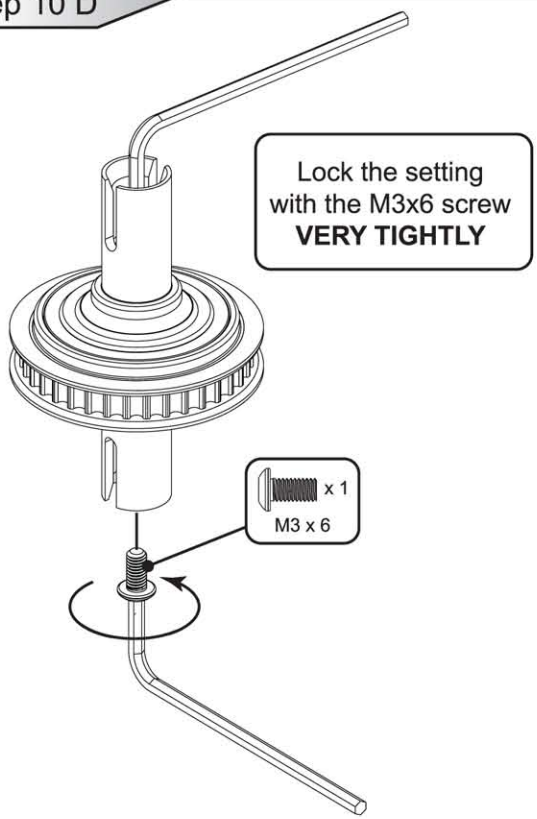
Step 10 B



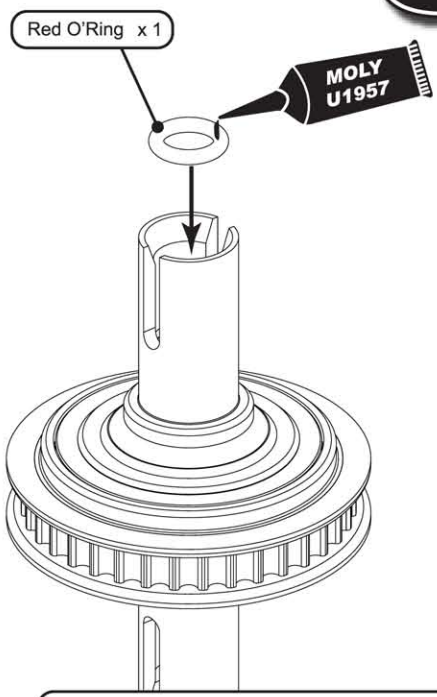
Step 10 C

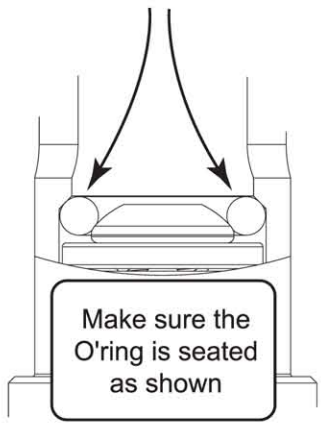


Step 10 D



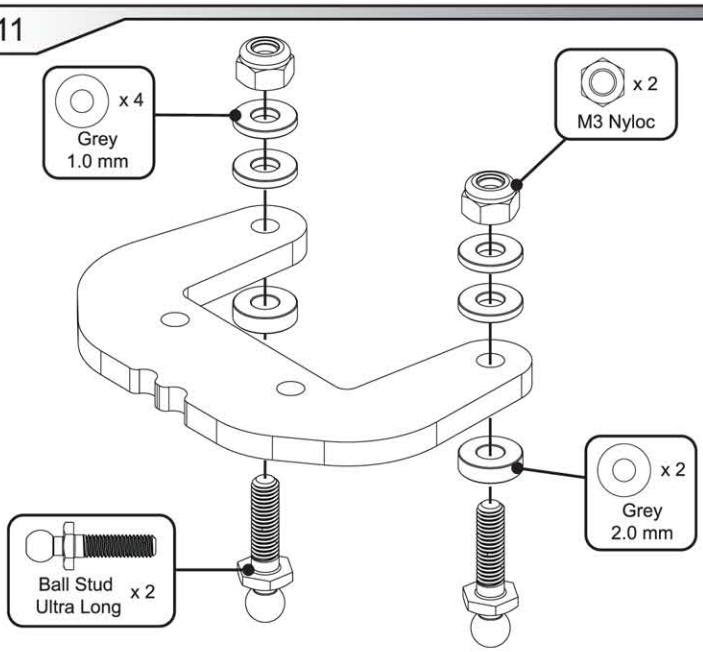
Step 10 E

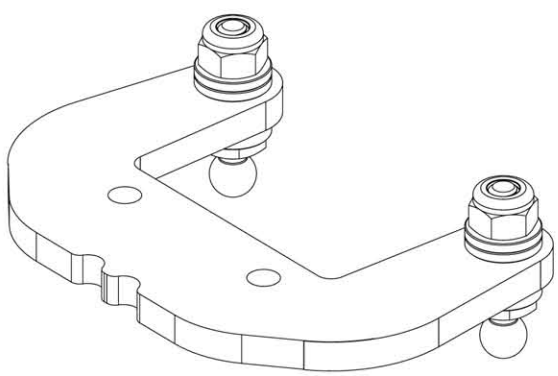




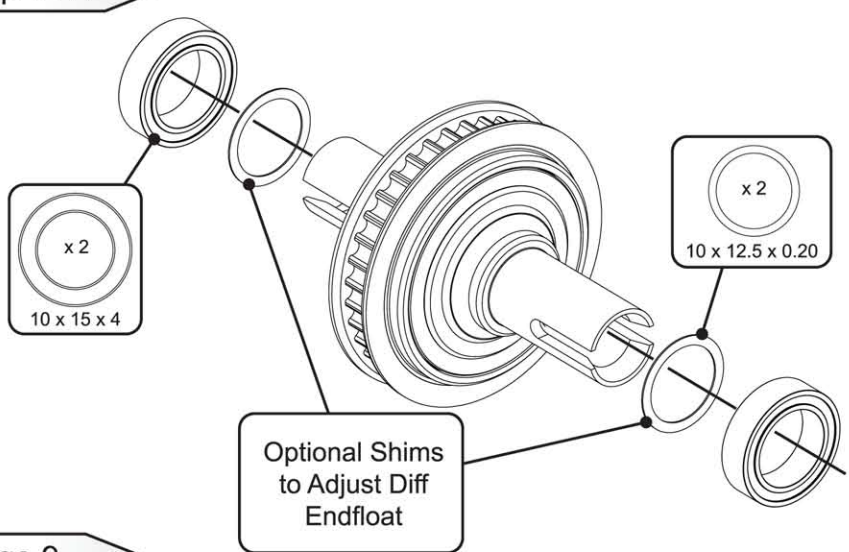
Now Repeat steps 8, 9 and 10 to build a second identical Diff

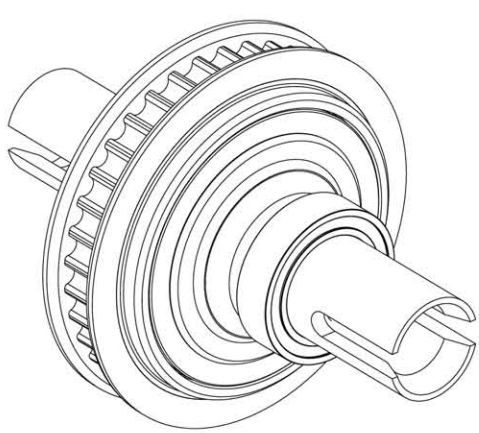
Step 11

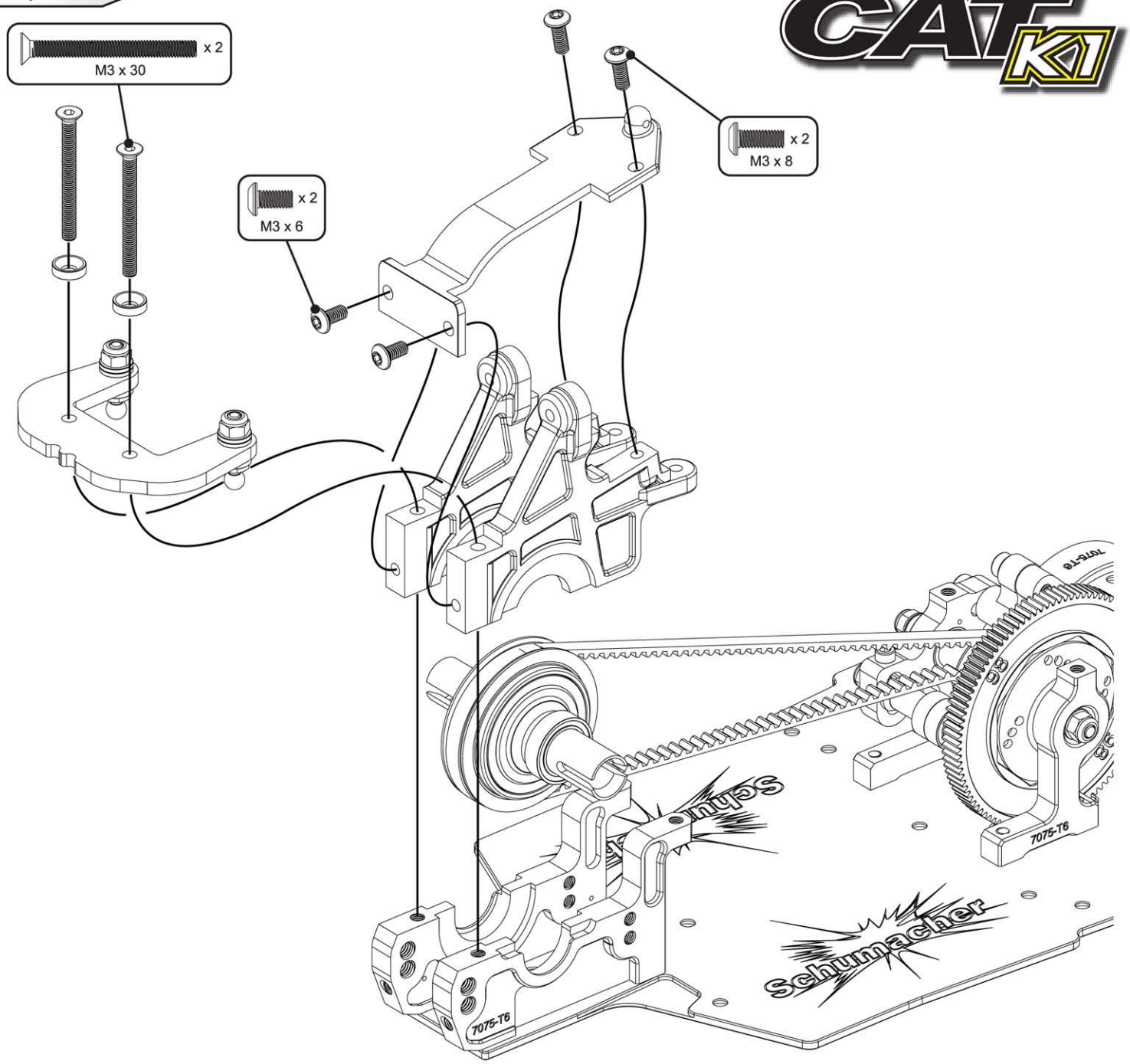


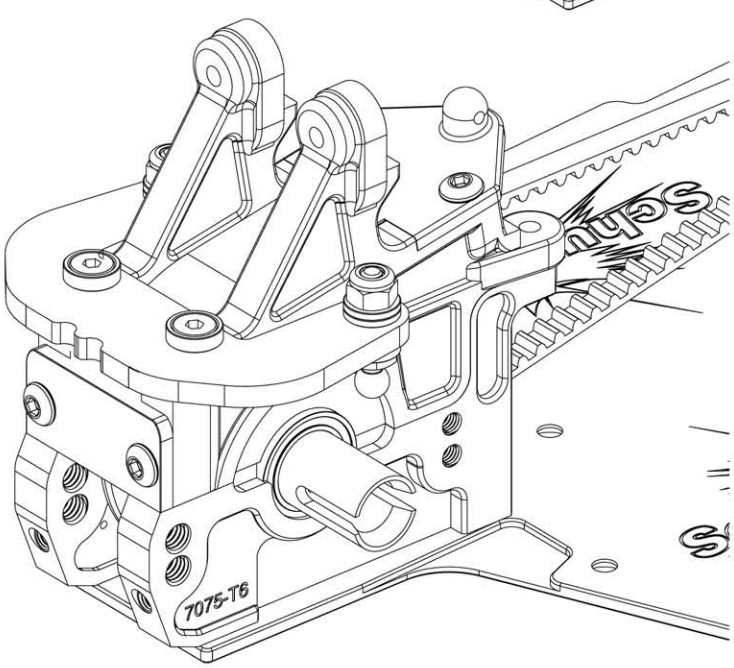


Step 12 A

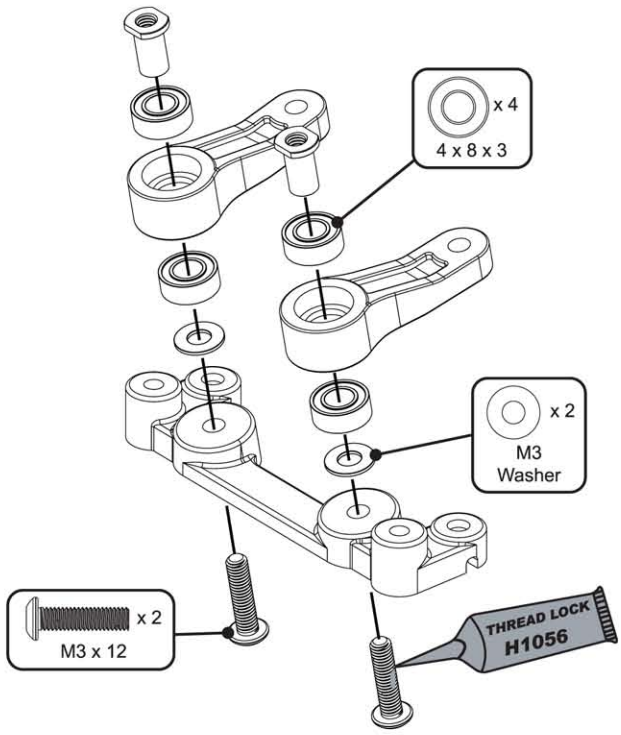


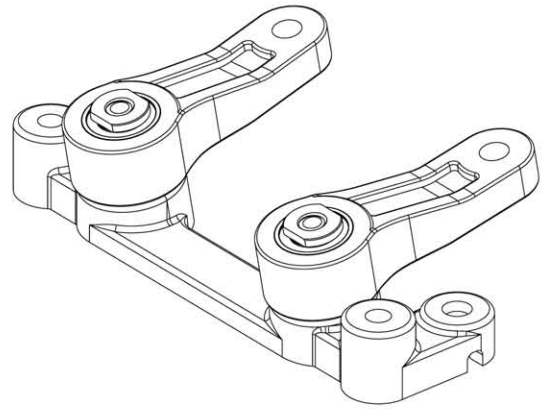



x 2
M3 x 30
x 2
M3 x 6
x 2
M3 x 8
7075-T6
7075-T6
Schumacher

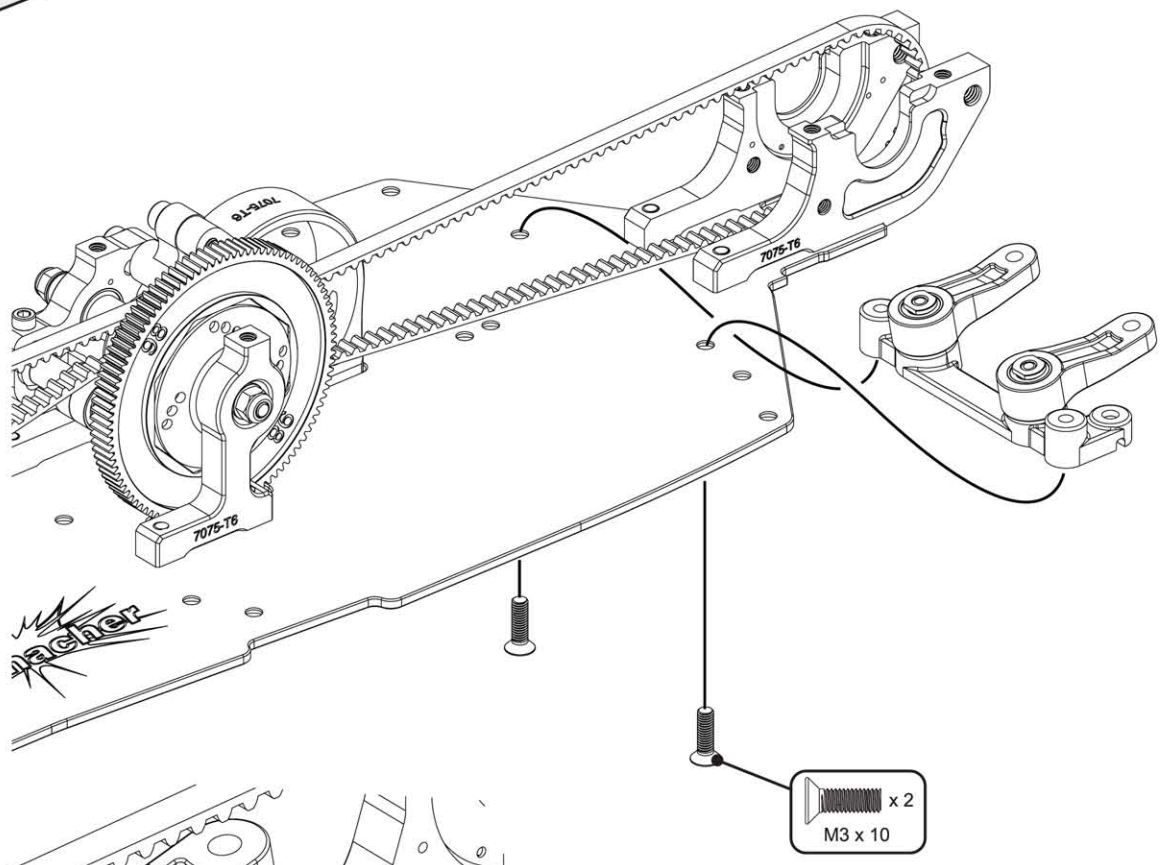

7075-T6

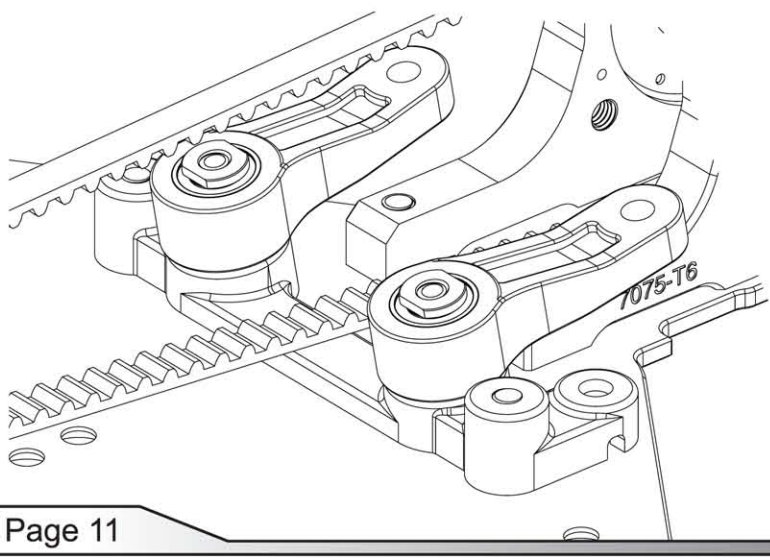
Step 13 A



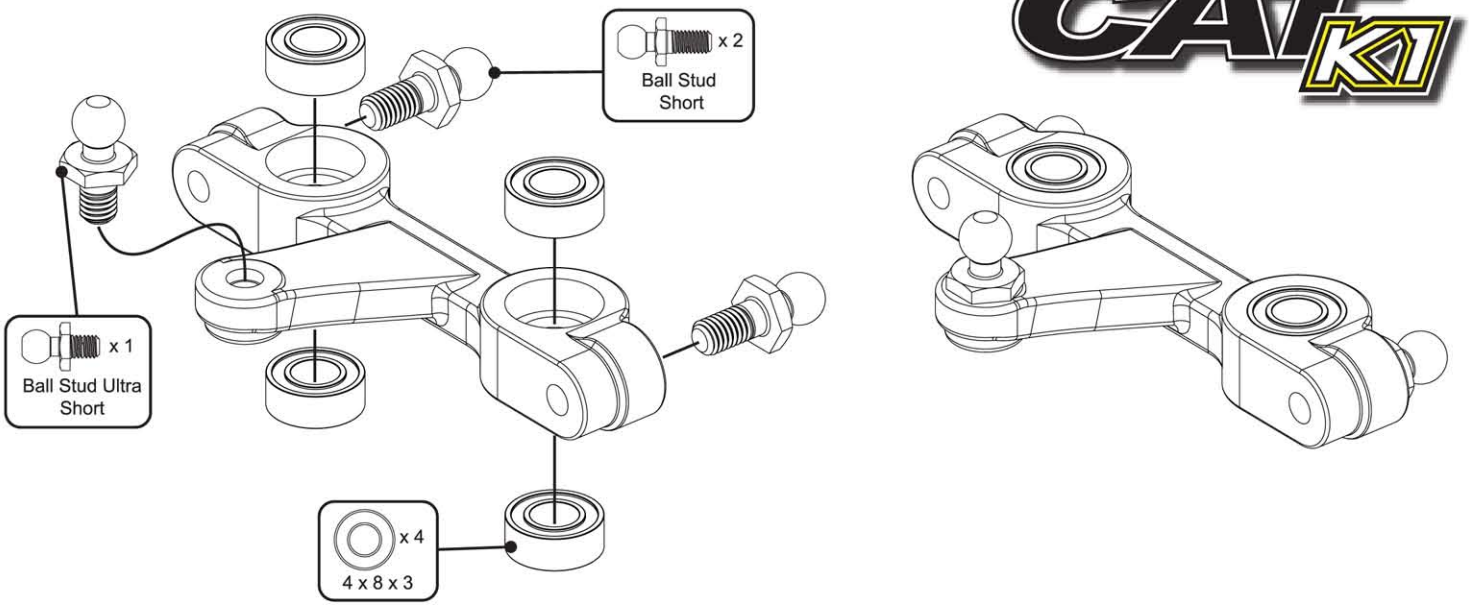


Step 13 B

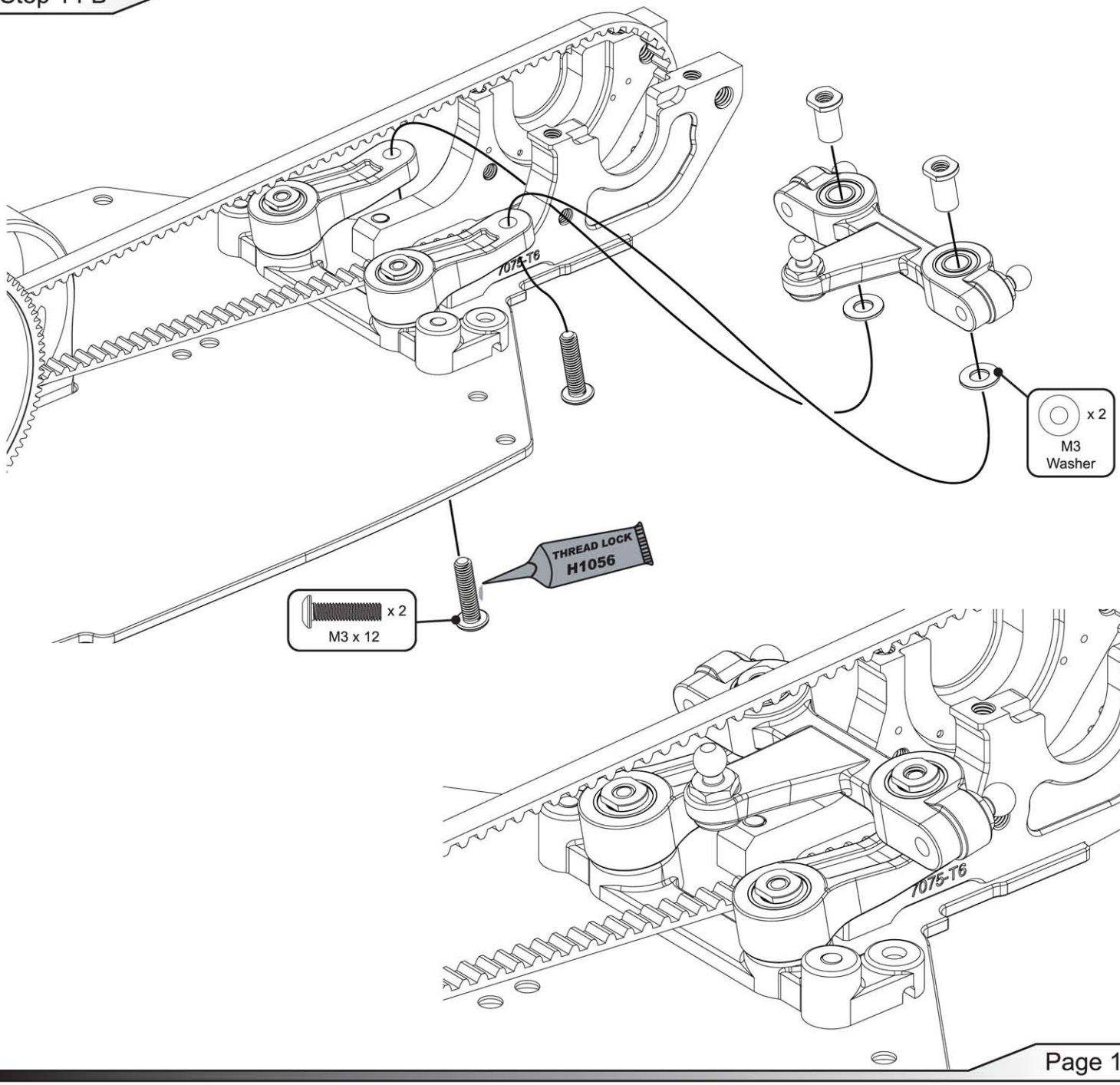




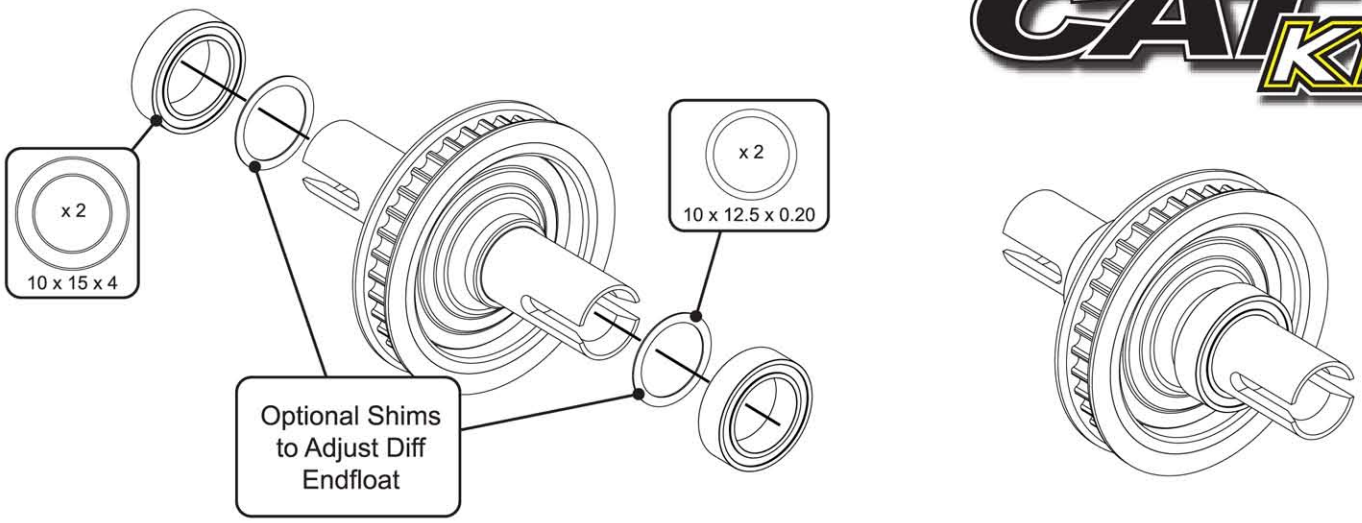
Step 14 A



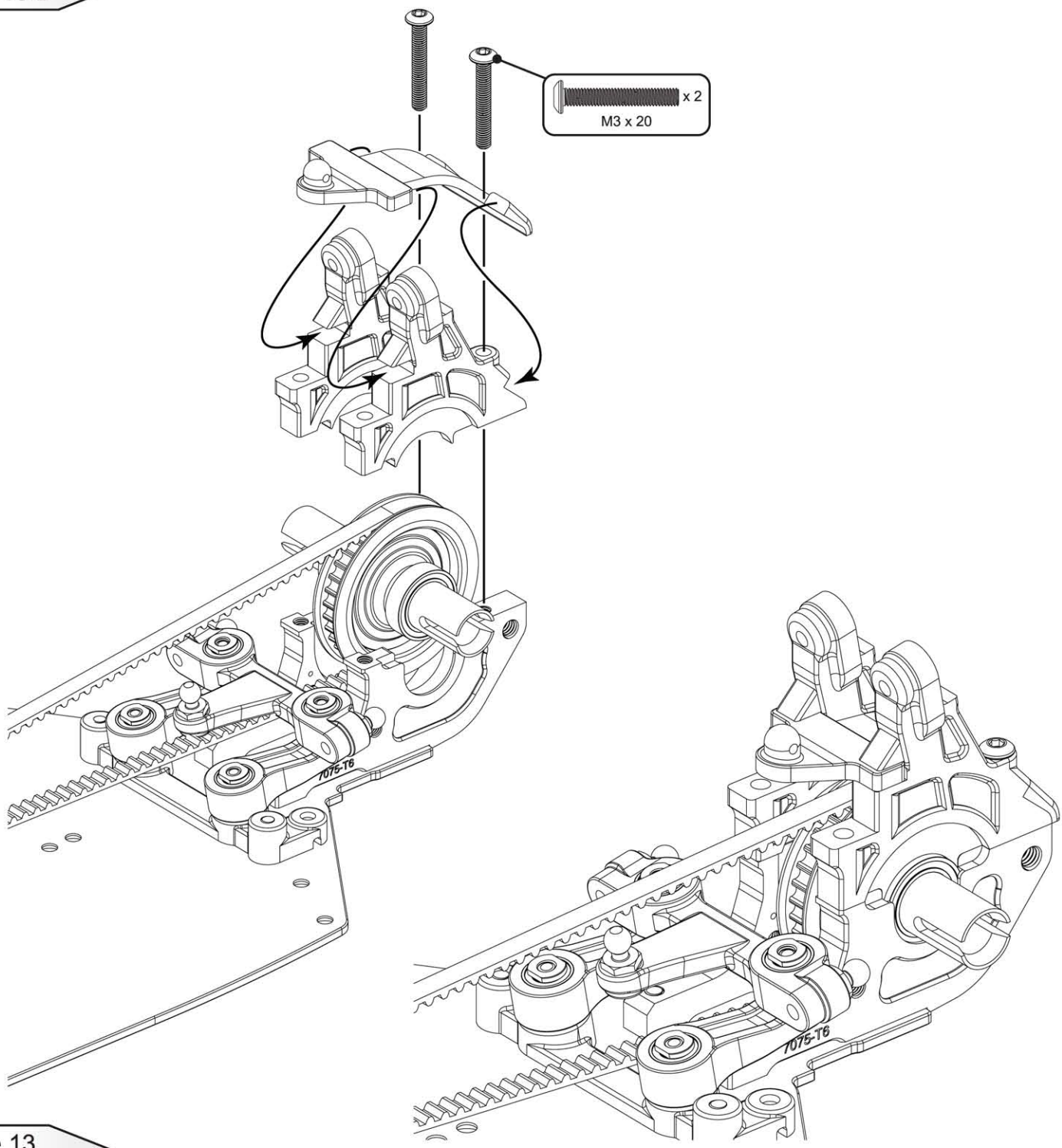
Step 14 B



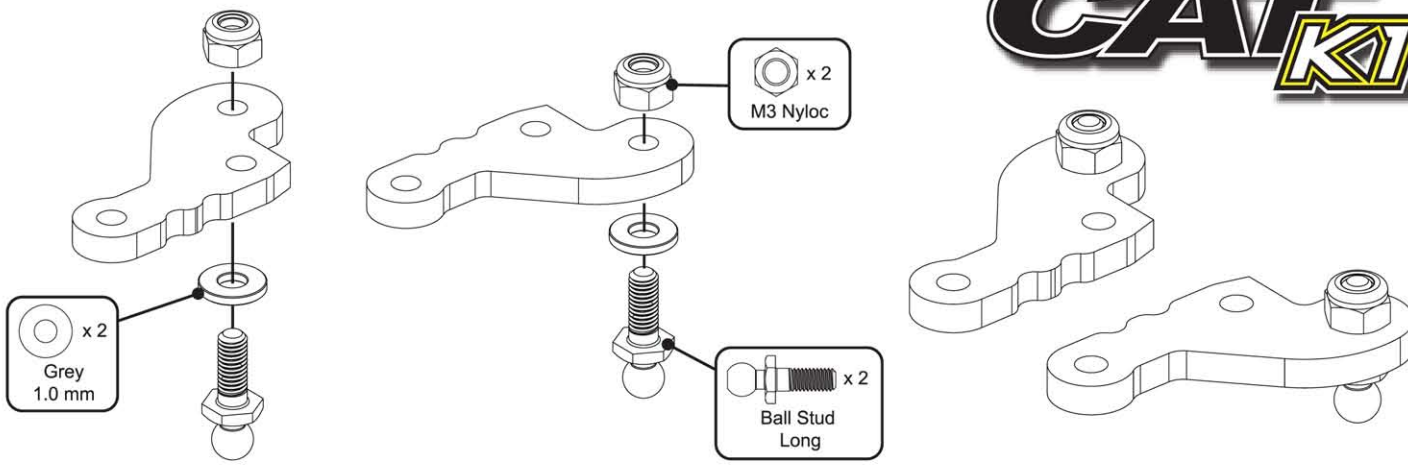
Step 15 A



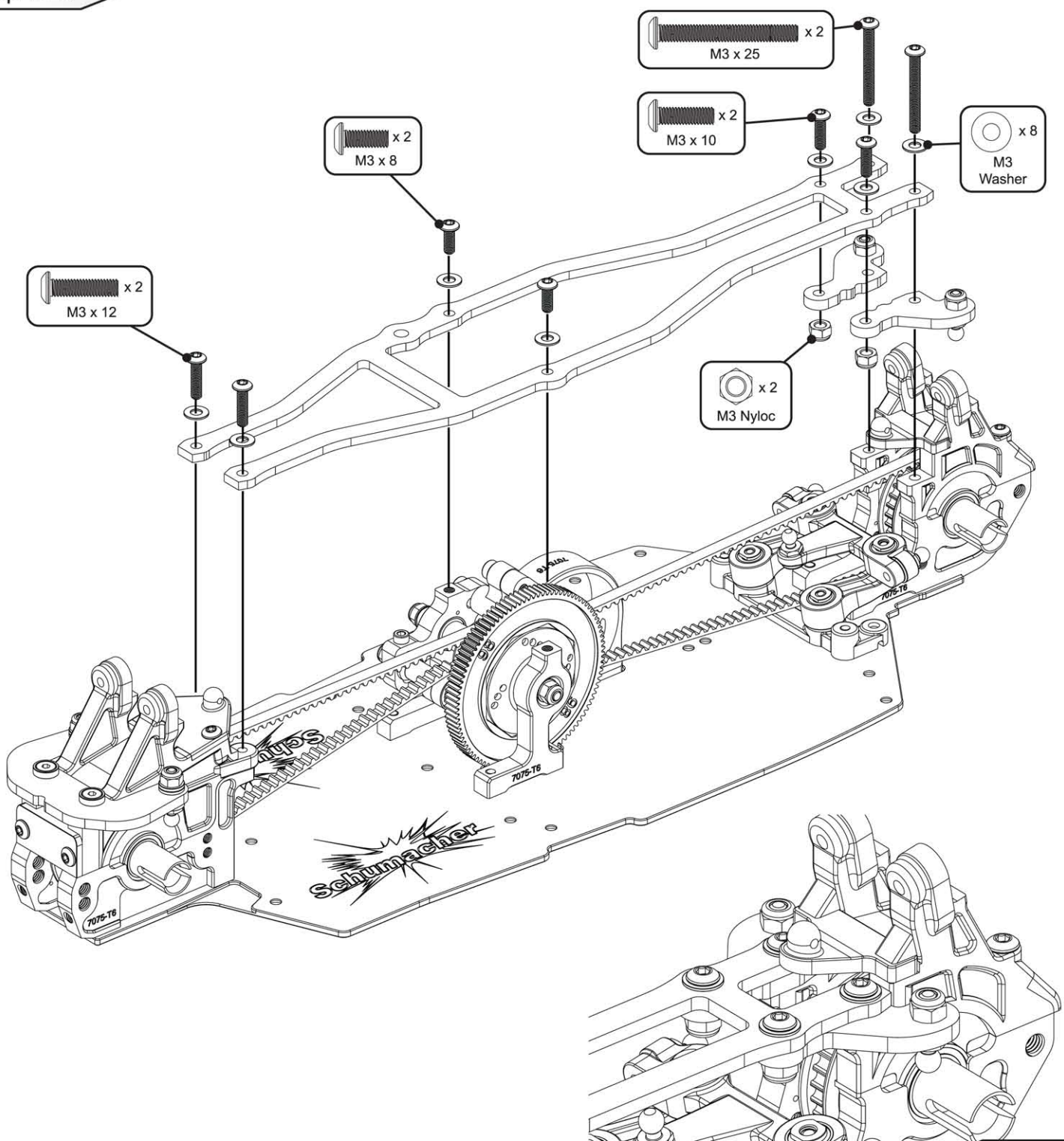
Step 15 B



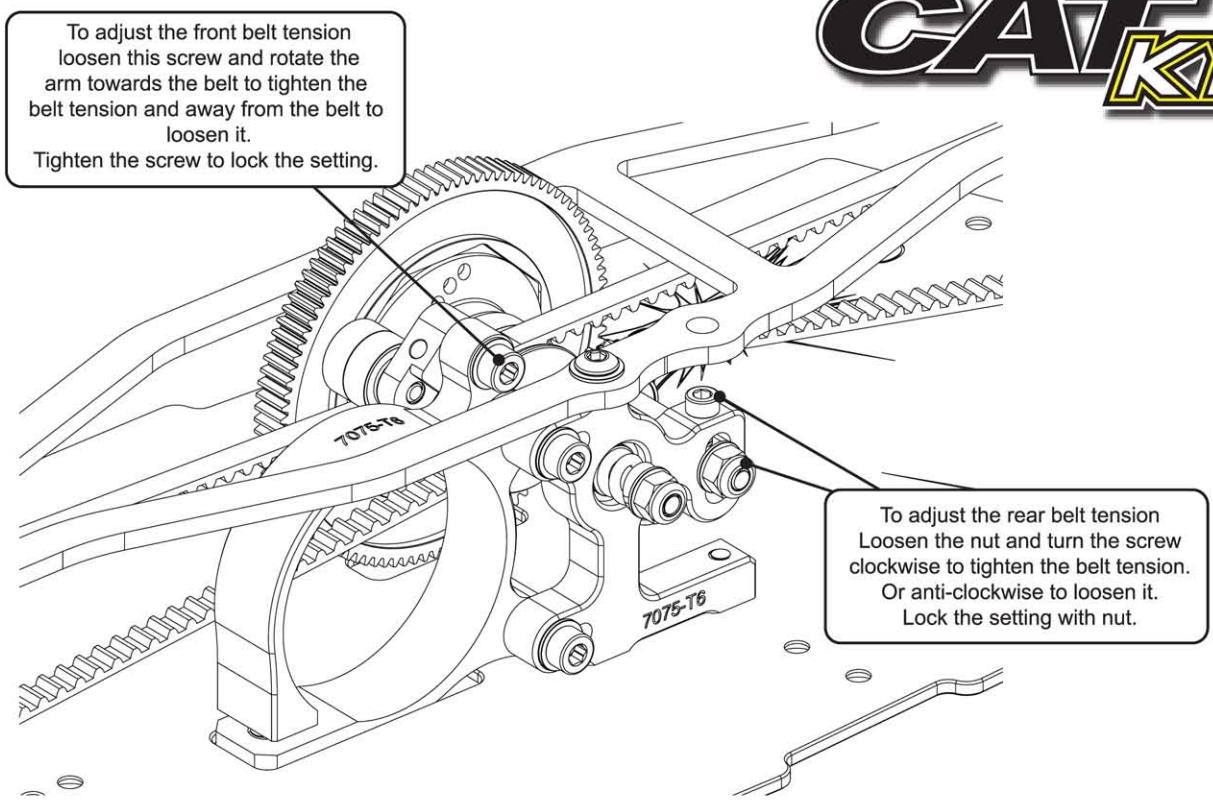
Step 16 A



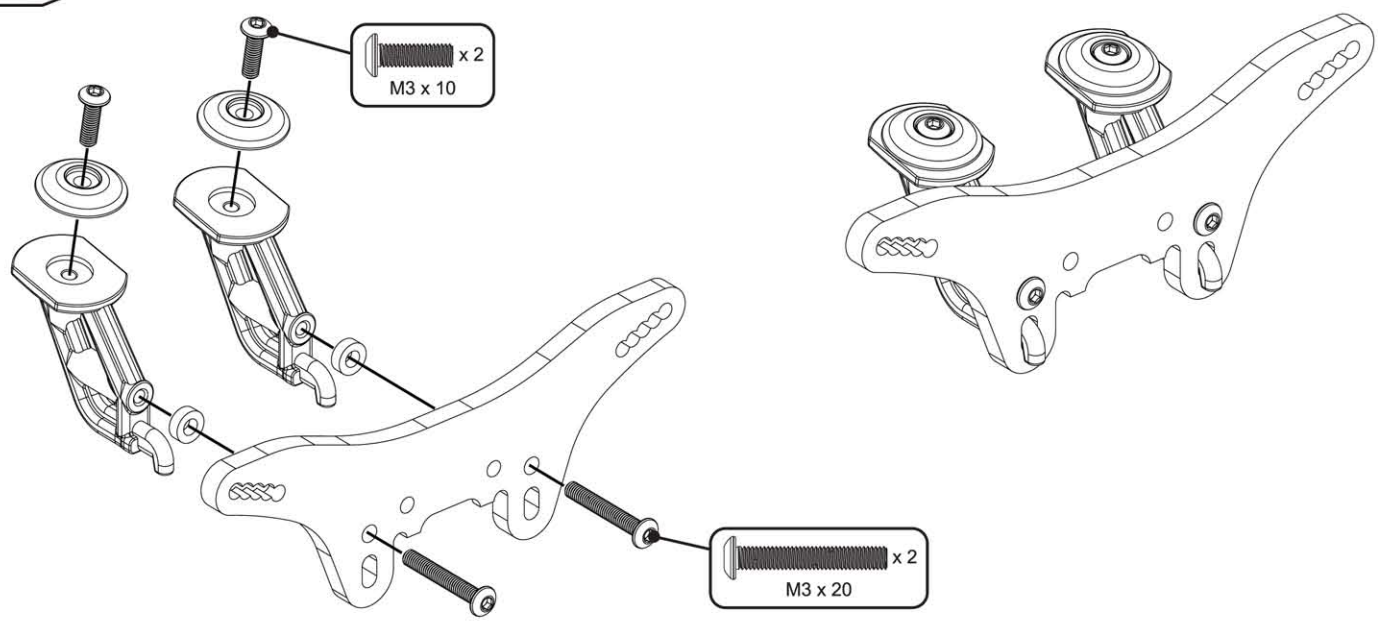
Step 16 B



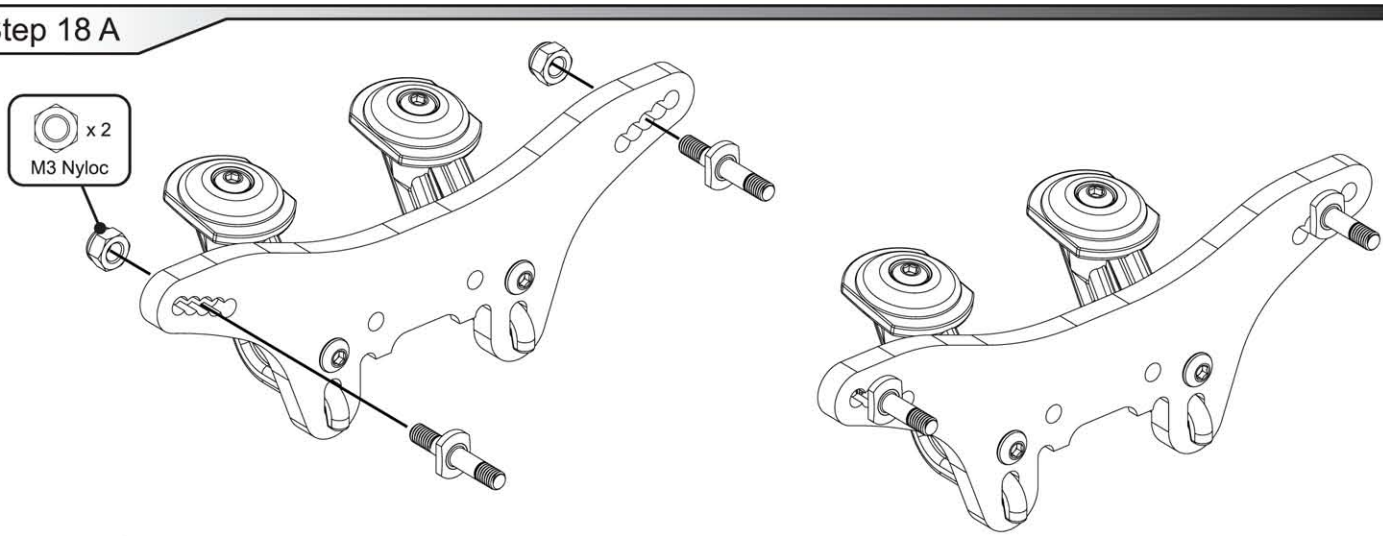
Step 16 C



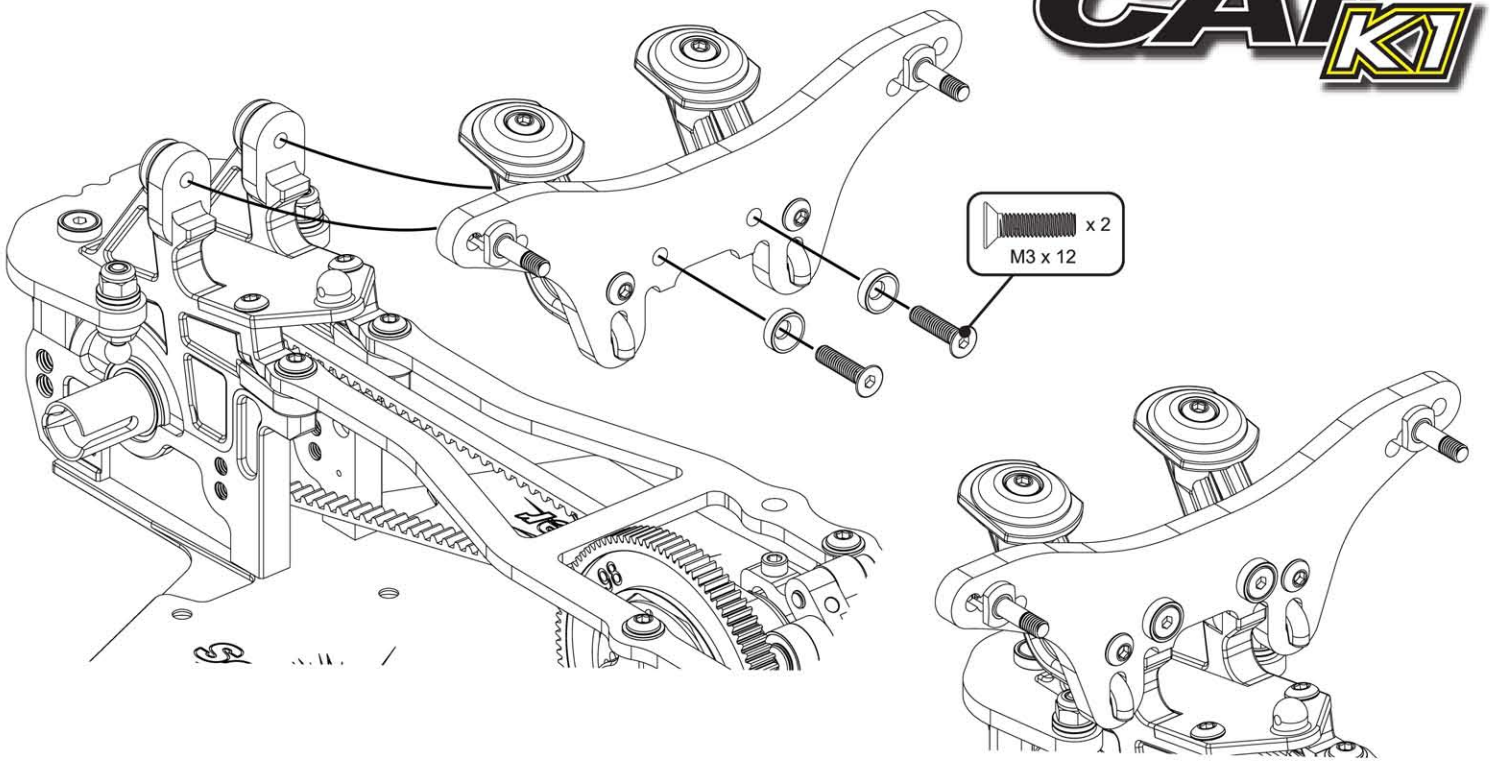
Step 17



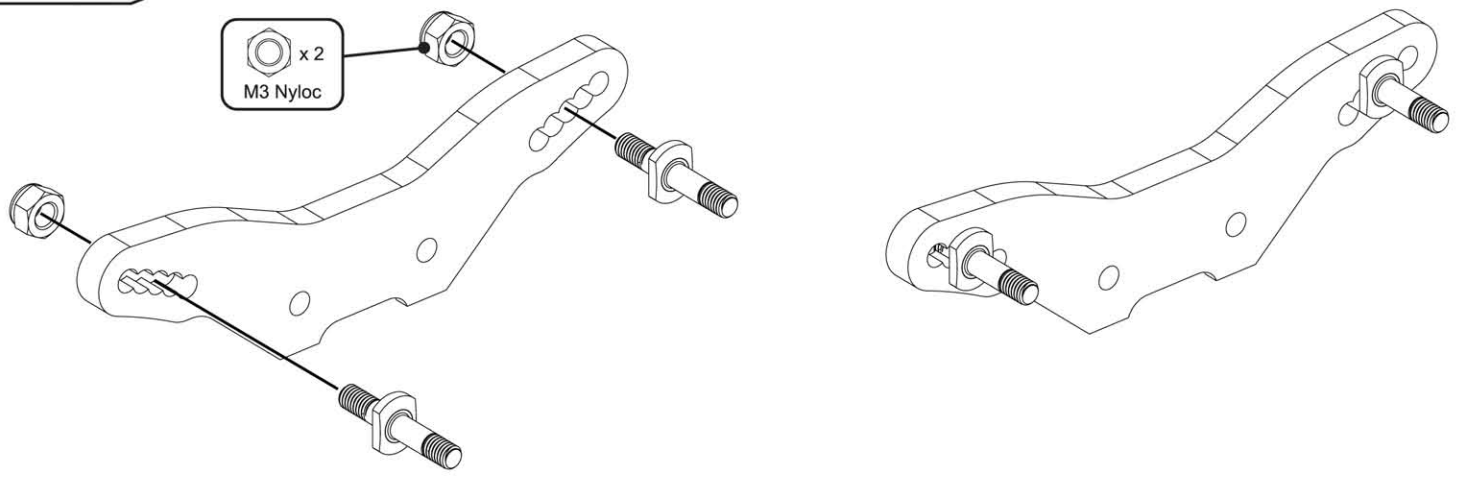
Step 18 A



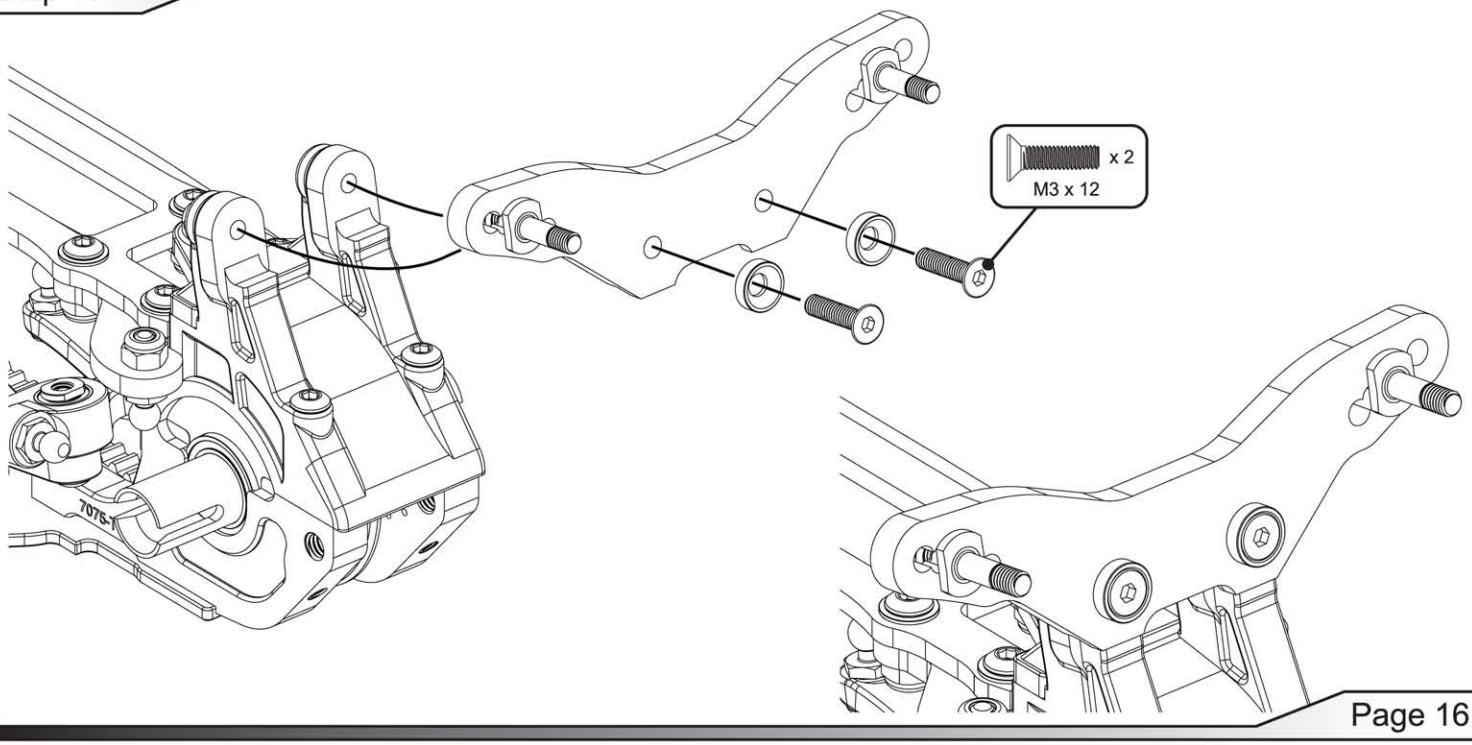
Step 18 B



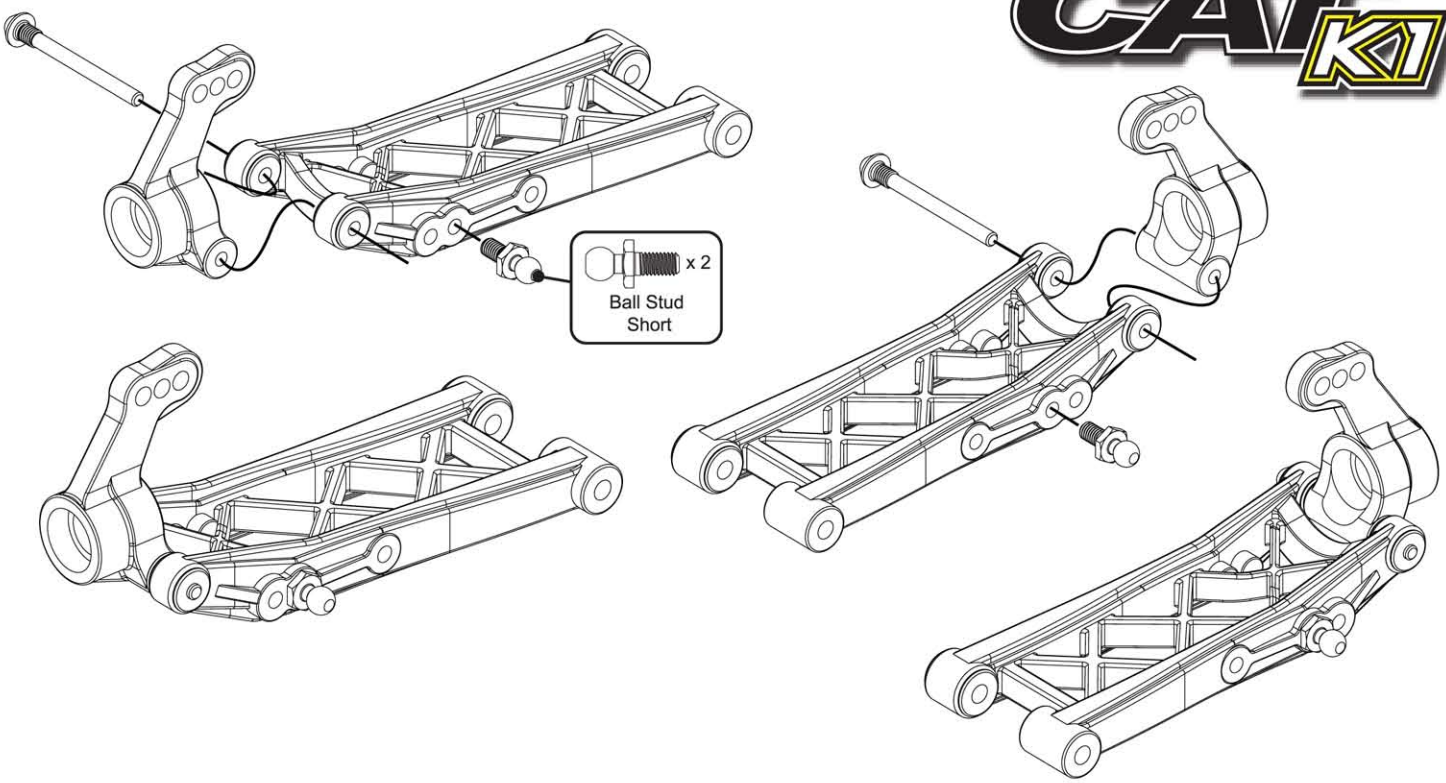
Step 19 A



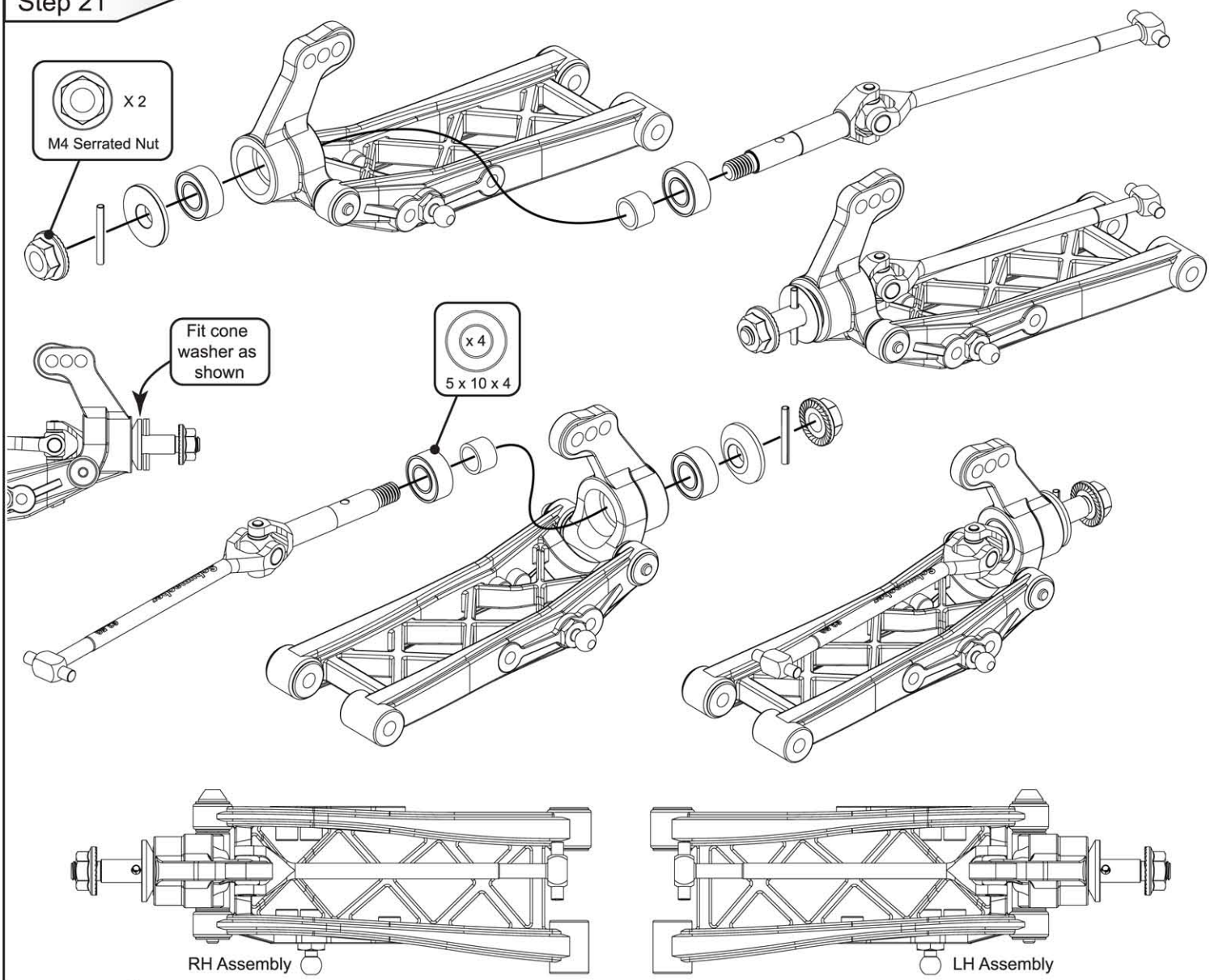
Step 19 B



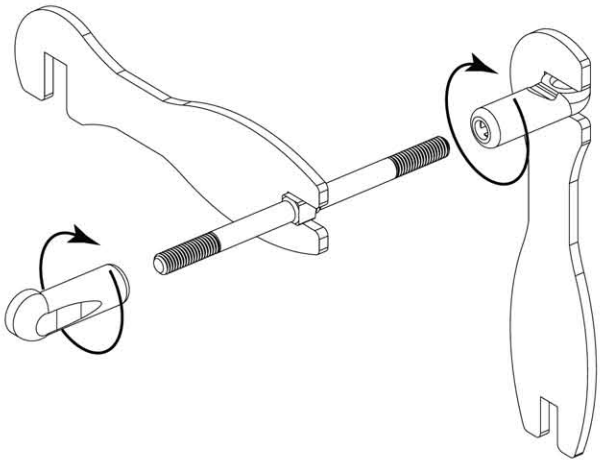
Step 20

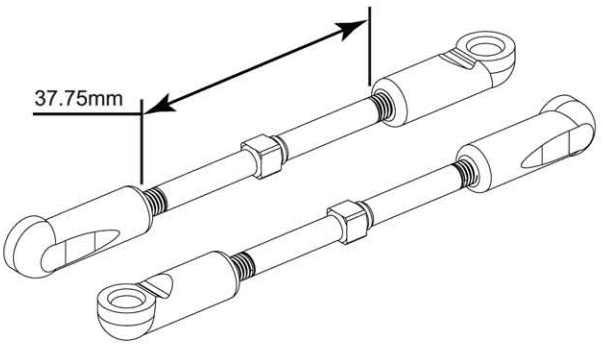


Step 21

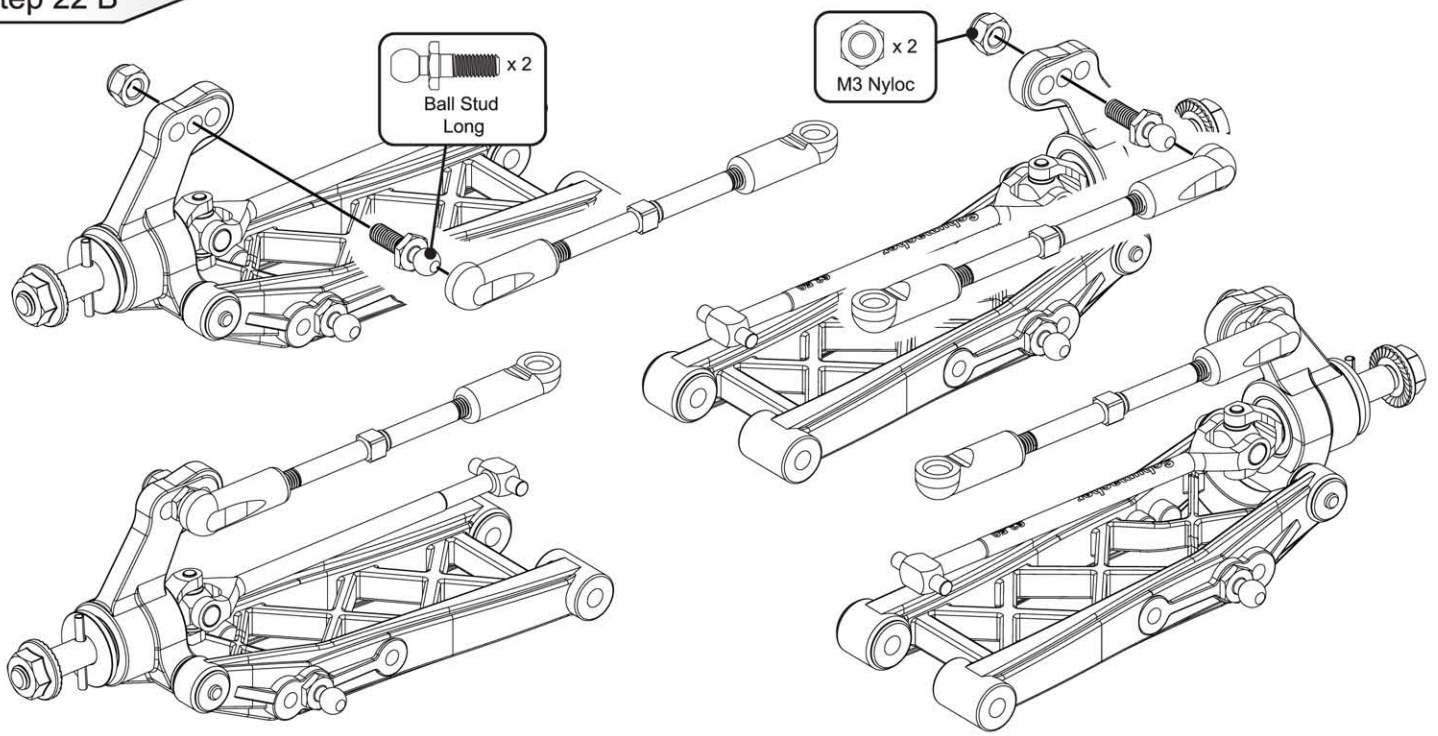


Step 22 A

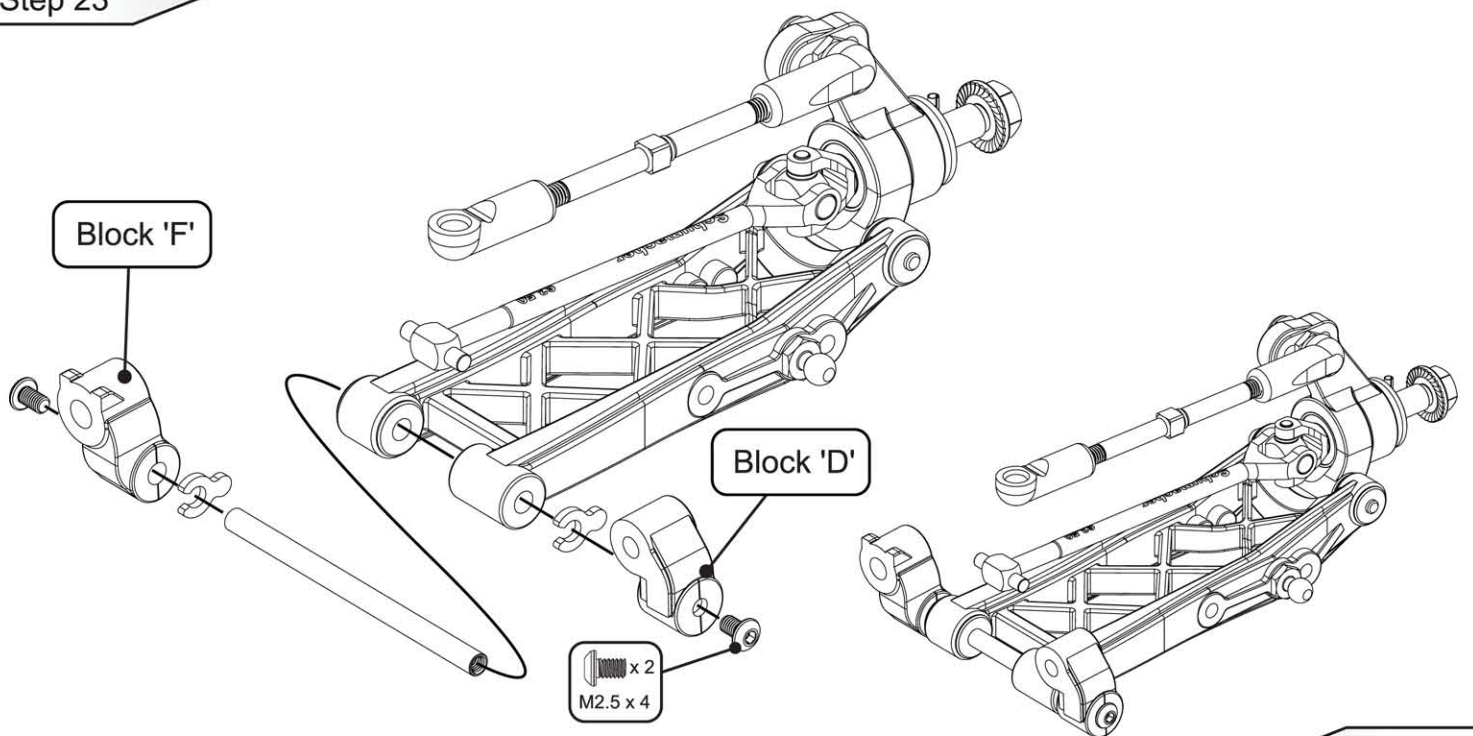




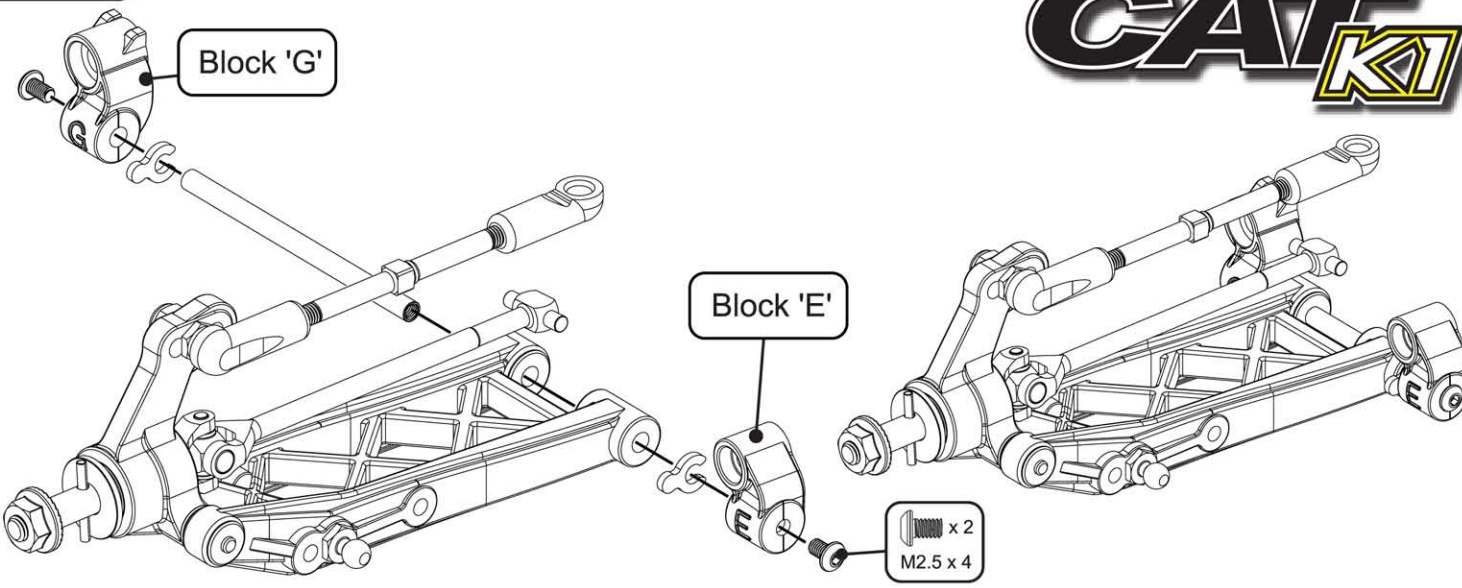
Step 22 B



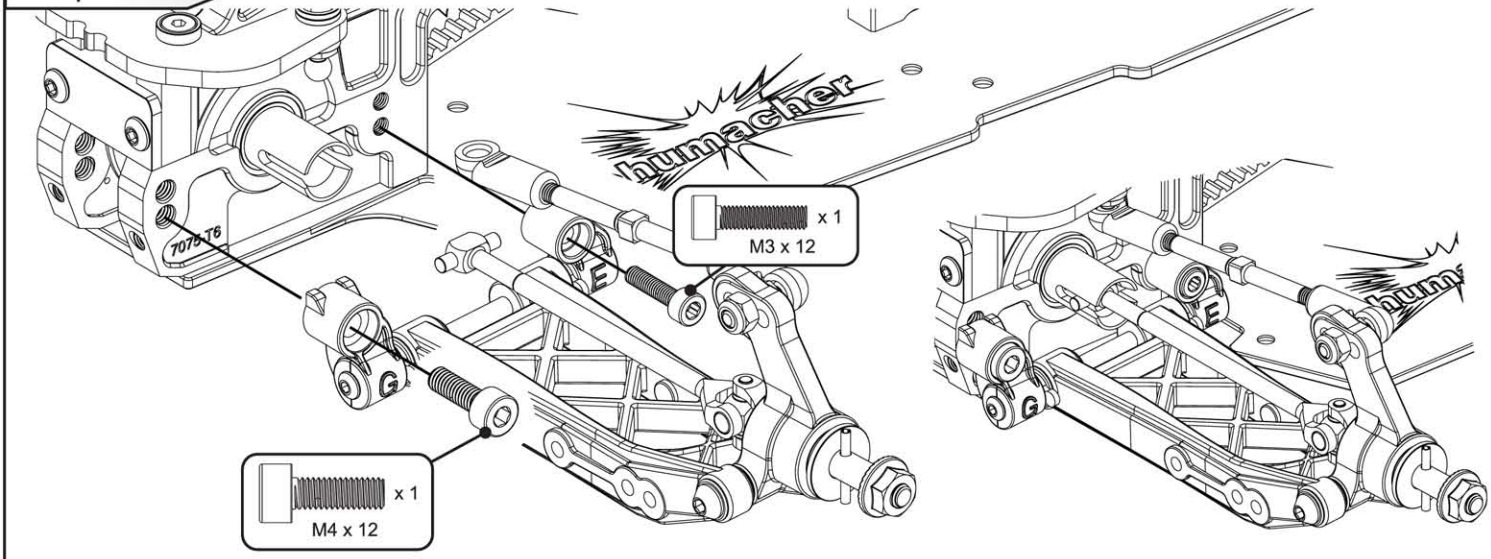
Step 23



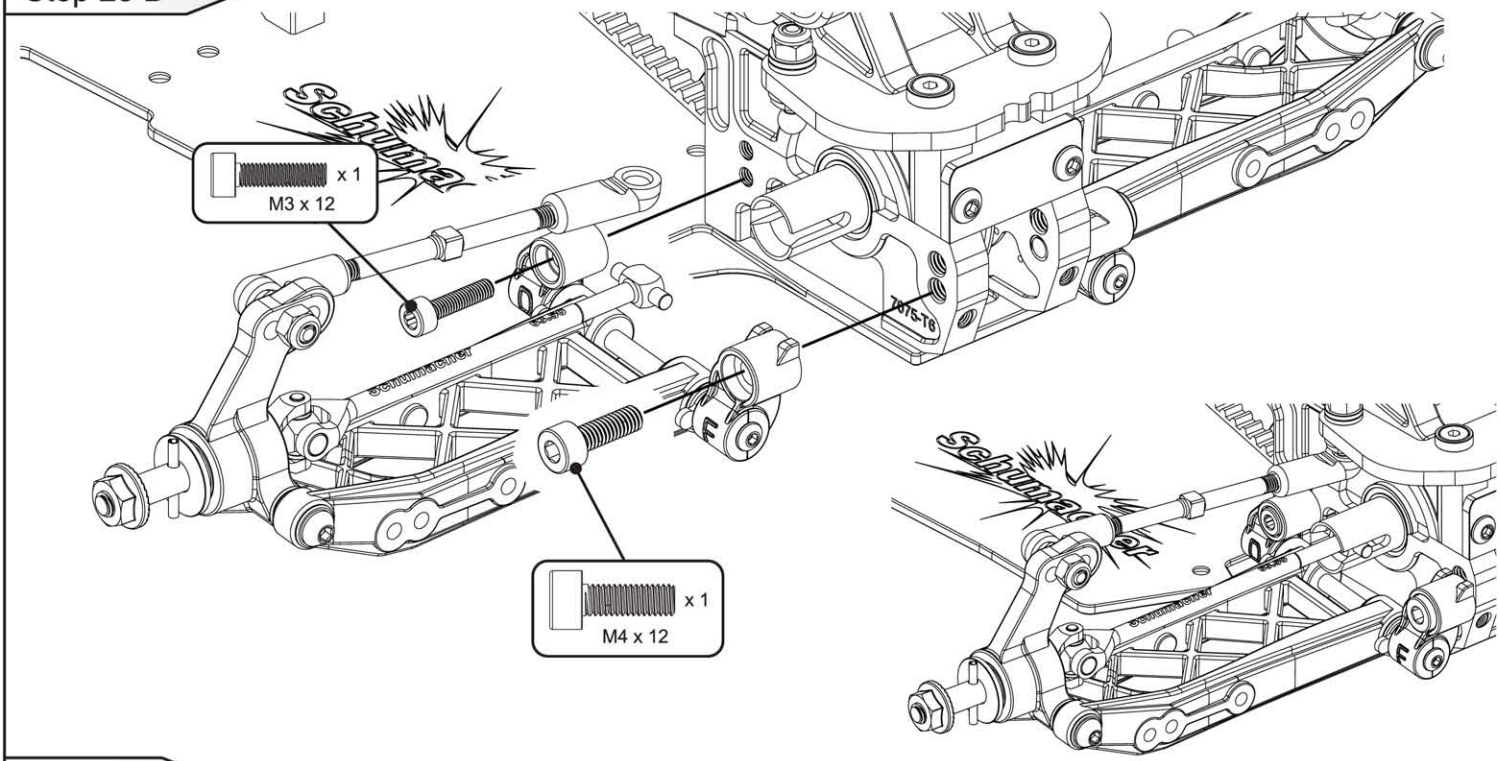
Step 24



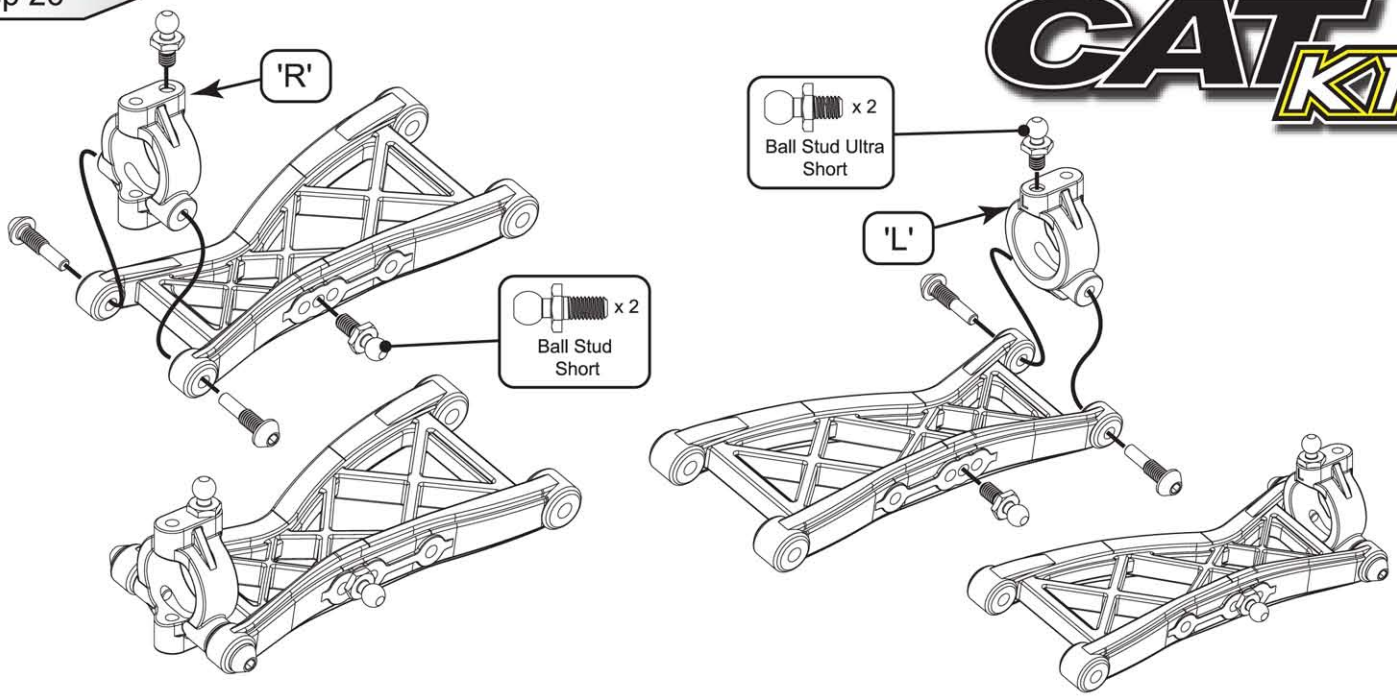
Step 25 A



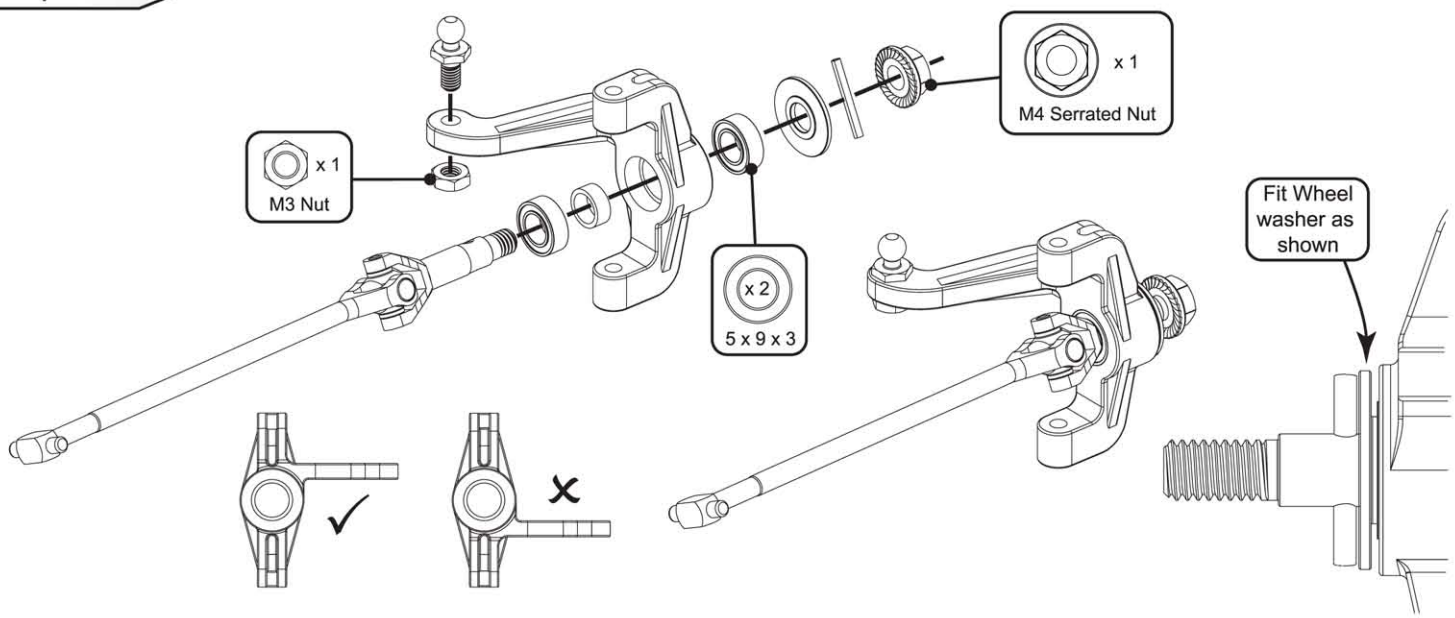
Step 25 B



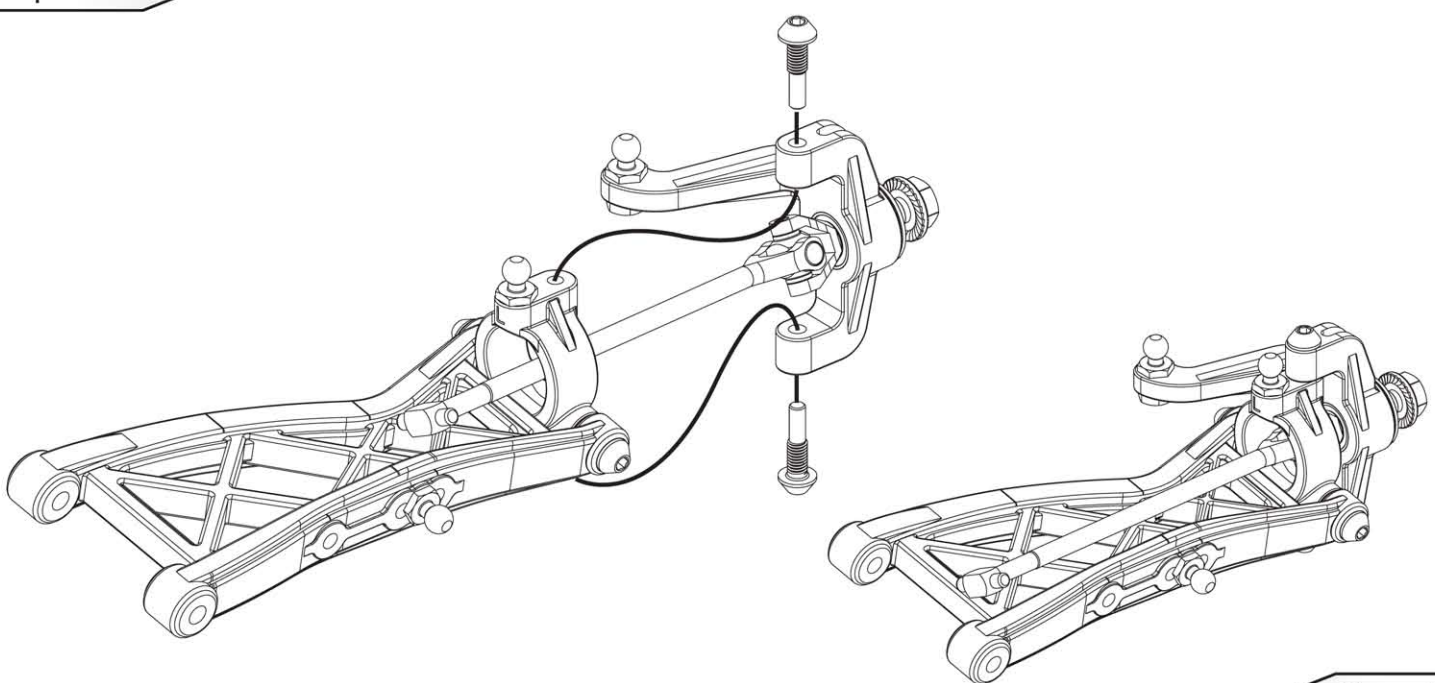
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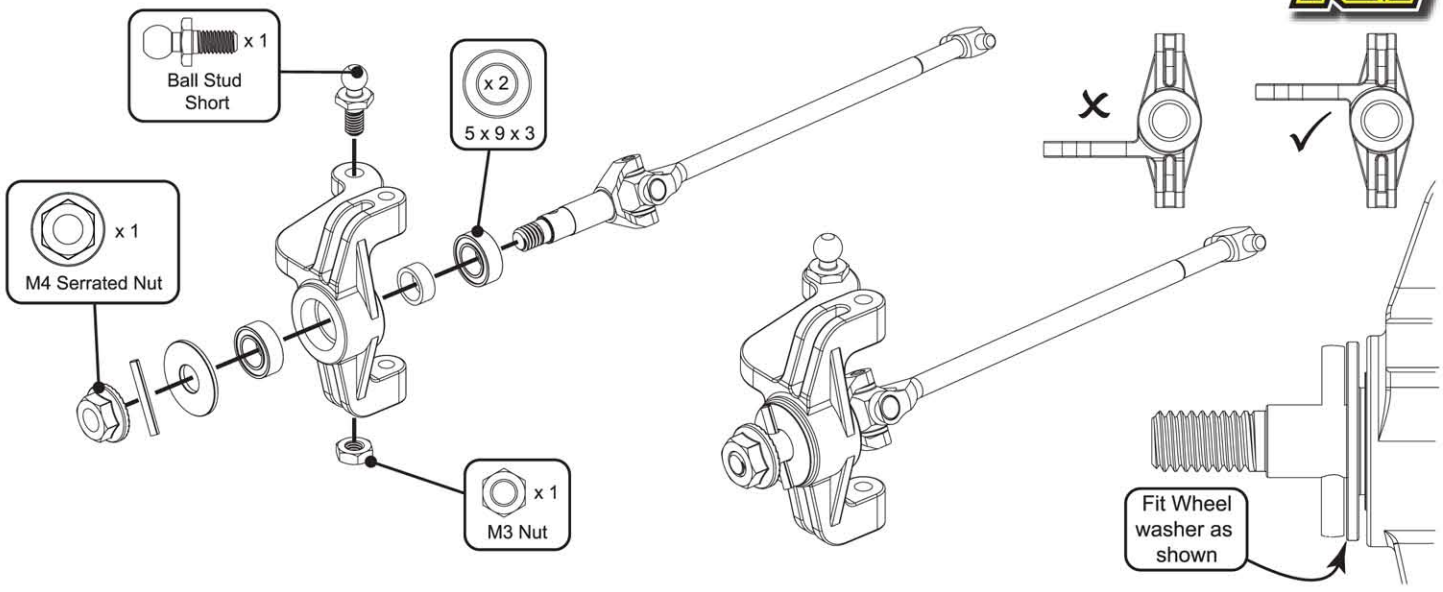
Step 27 A



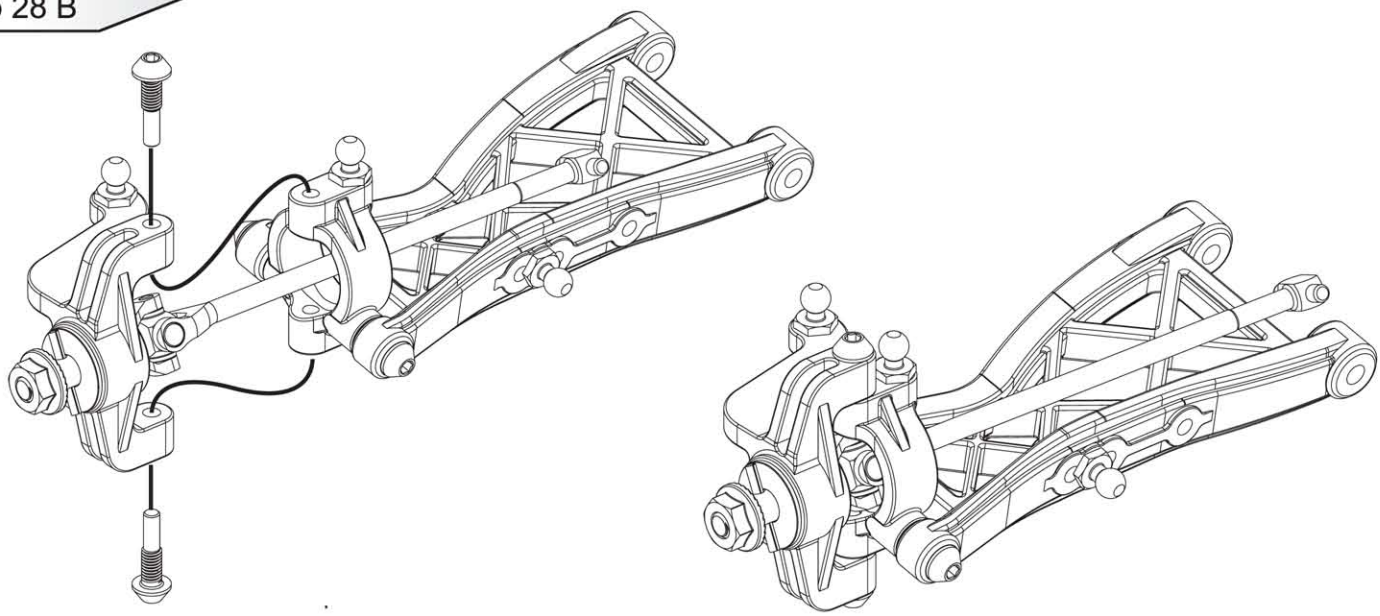
Step 27 B



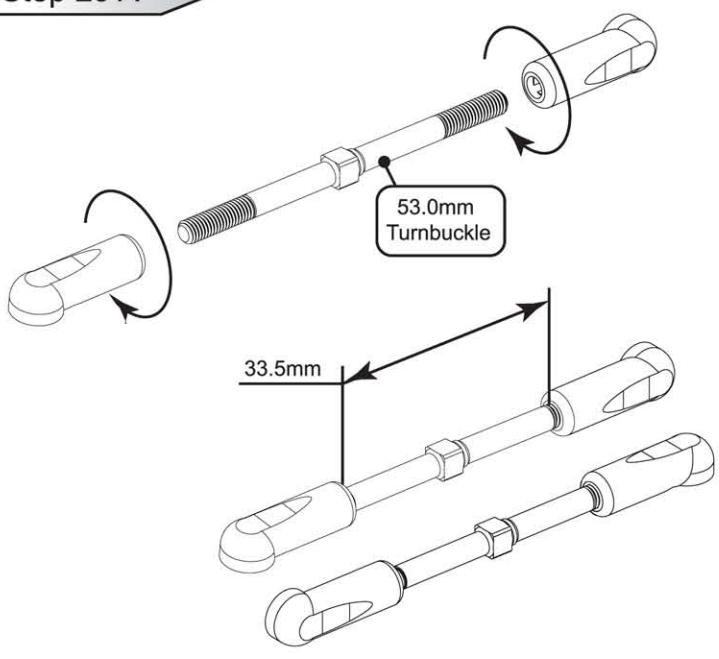
Step 28 A



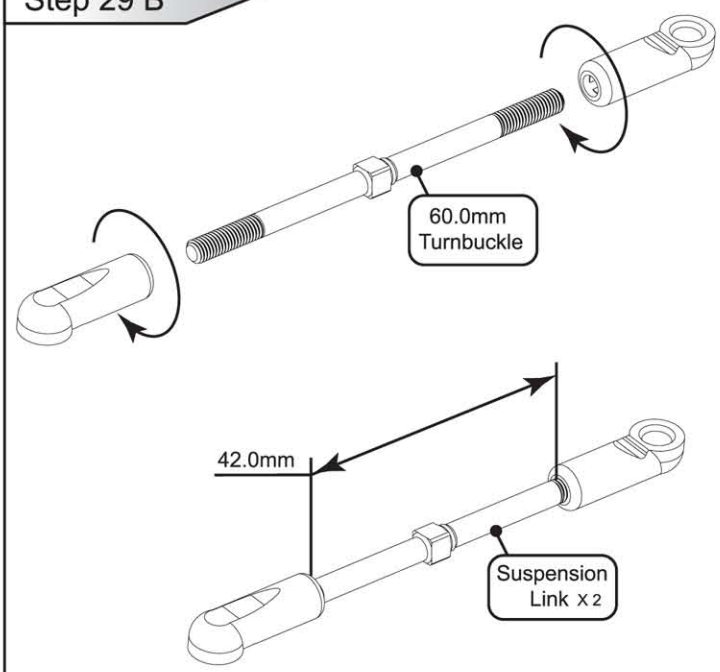
Step 28 B



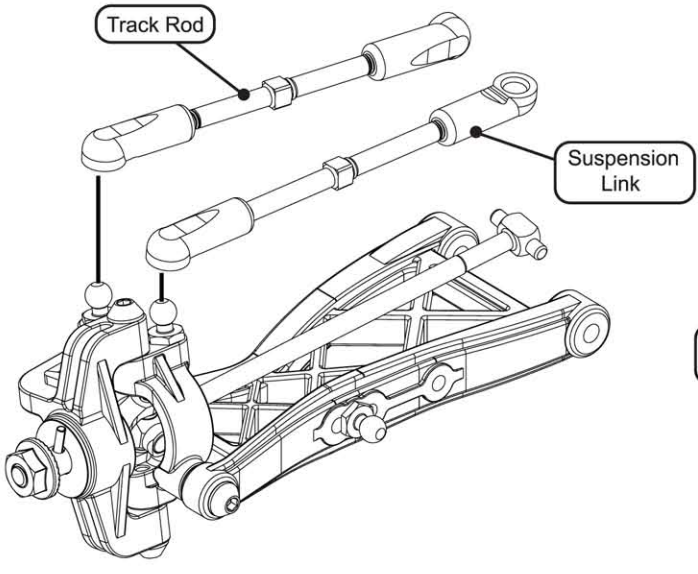
Step 29 A

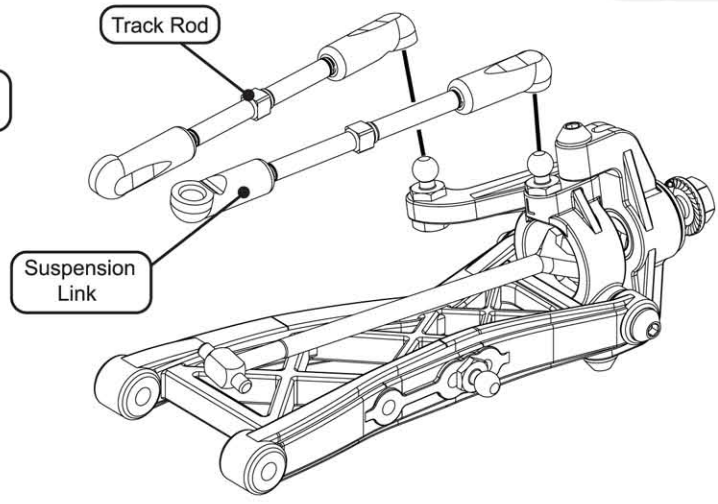


Step 29 B

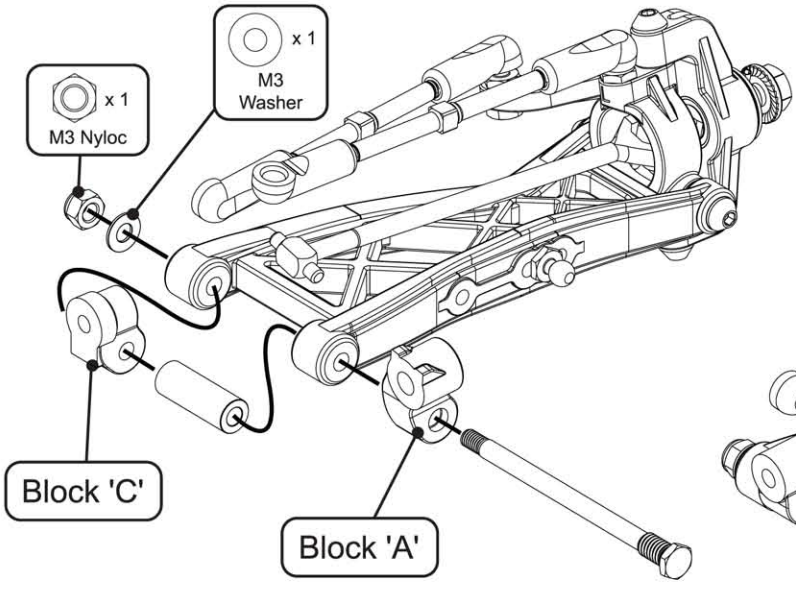


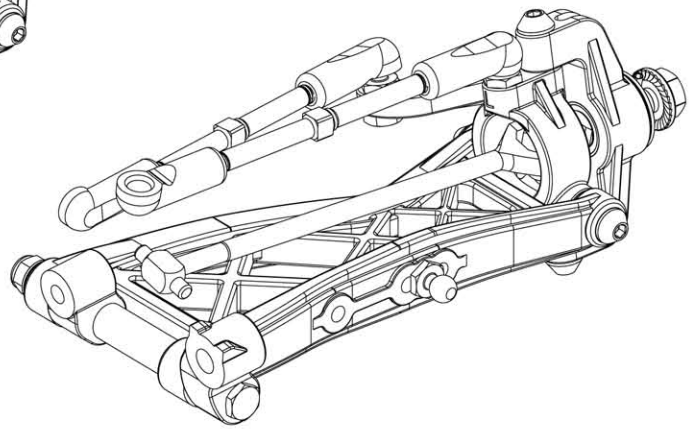
Step 29 C



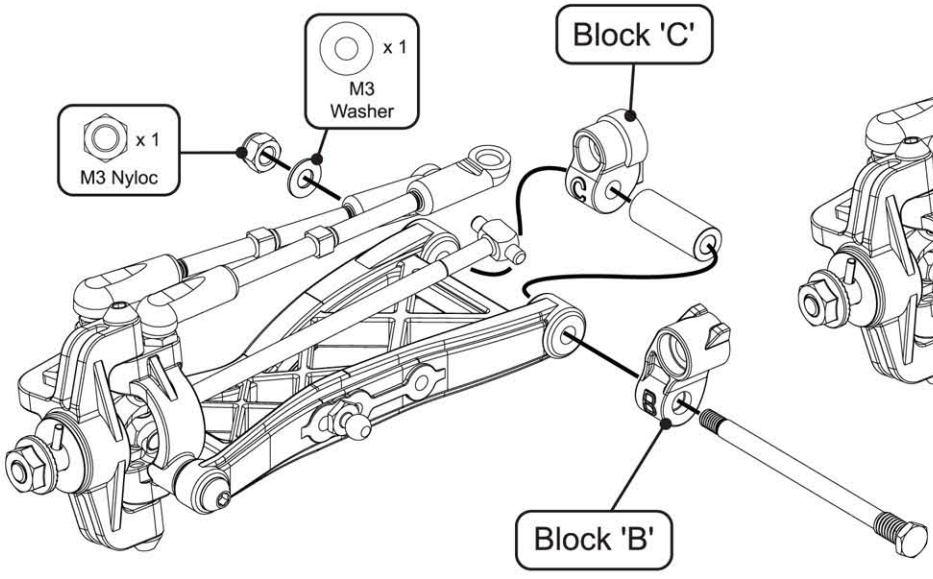


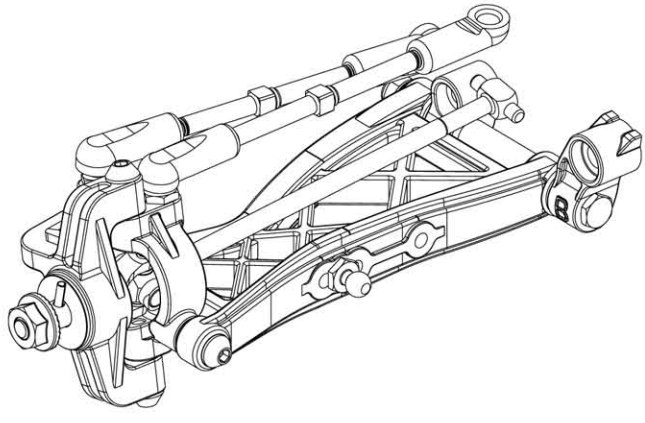
Step 30



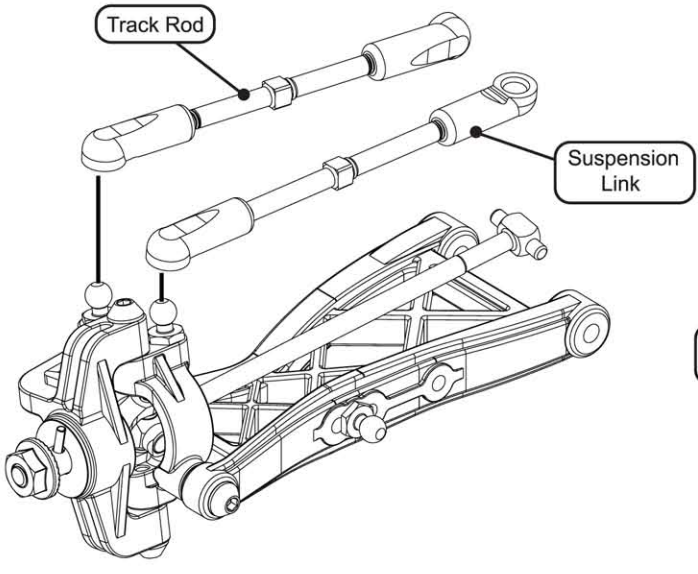


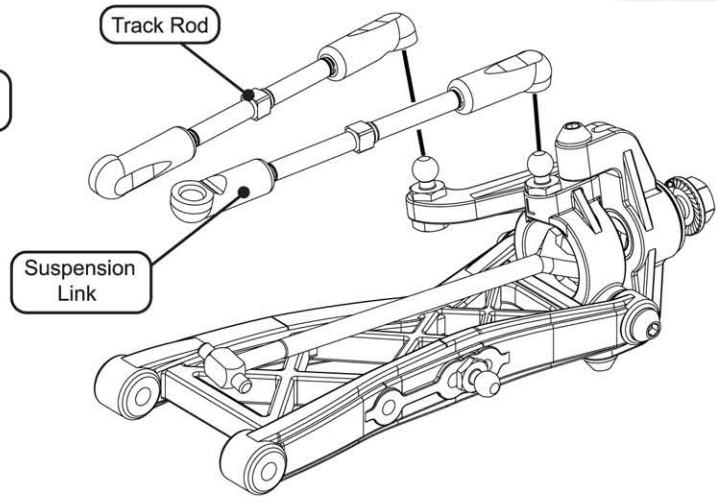
Step 31



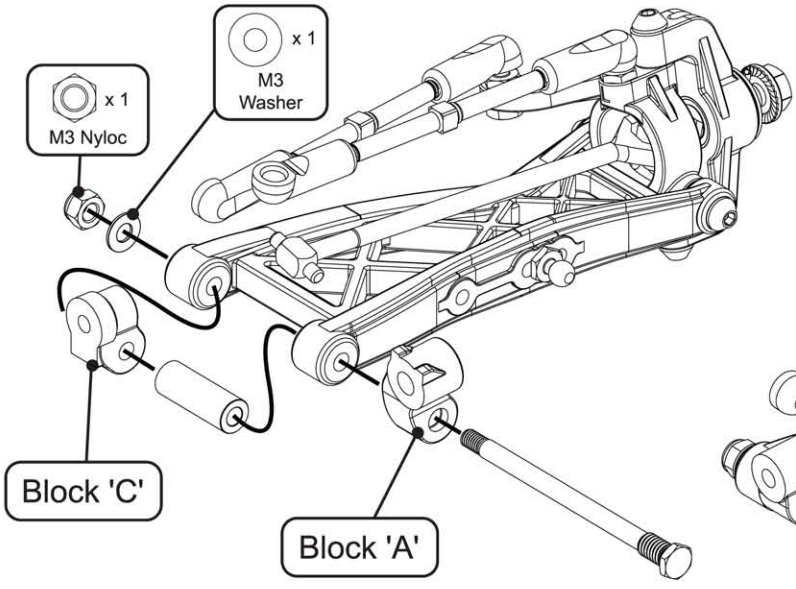


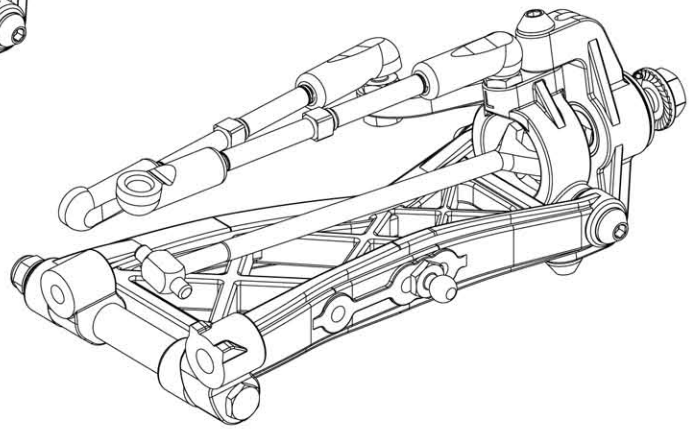
Step 29 C



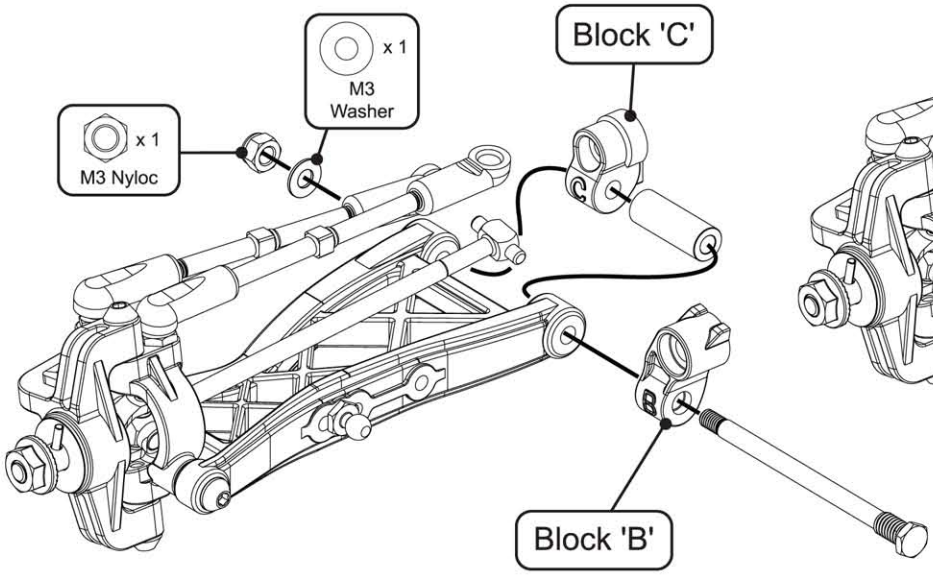


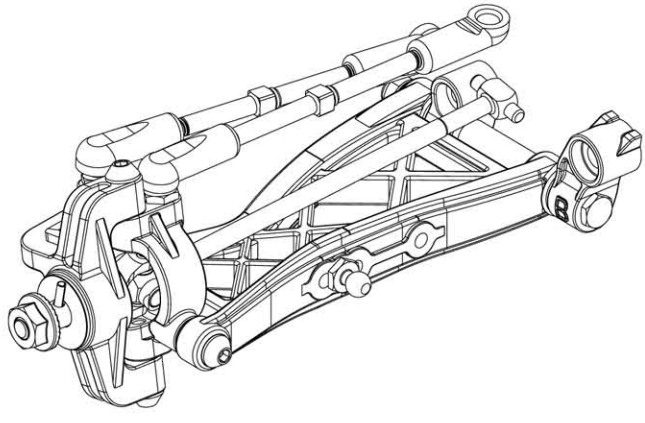
Step 30





Step 31





ELECTRIC - OFF ROAD CARS

K137 CAT K1 - Pro C/F Kit
K138 CAT K1 - Pro C/F Assembled

BODYSHELLS AND DECALS

U3478 Decal sheet - Schumacher and Racing-Cars.Com (pk3)
U4133 Window Mask - CAT K1
U4134 Decal Sheet - CAT K1 pk2
U5106 Long Wing; Max Aero
U5113 Talon Wing - White - CAT K1
U5114 Talon Wing - Black - CAT K1
U5115 Talon Wing - Carbon Look - CAT K1
U5116 Bodyshell & Decals; Clear - CAT K1
U5117 Talon Wing Clear - CAT K1

CHASSIS PARTS

U1042 Aerial Mount - Universal
U119 Aerial Tube - Pack 4
U122 Velcro 1/2metrex16mm.
U2231 Servo Horns
U2989 Ball Grippa Sockets - (pk 8)
U3850 Wing Mount Set - CAT SX3
U4135 C/F Shock Mount; Front - CAT K1
U4136 C/F Shock Mount; Rear - CAT K1
U4137 Servo Mounts - CAT K1
U4138 C/F Link Mount; Rear 38mm Kit - CAT K1
U4139 C/F Link Mount; Front 38mm Kit - CAT K1
U4140 Moulded LiPo Spacers - CAT K1
U4141 Side Pods - CAT K1
U4142 Bumpers & Diff Covers - CAT K1
U4143 CF Top Deck - CAT K1
U4144 CF LiPo Straps & Adhesive Pads - CAT K1
U4145 LiPo Posts; Alloy - CAT K1
U4146 Front Transmission Brace - CAT K1
U4147 Alloy Chassis - CAT K1
U4148 Instruction Manual - CAT K1

SUSPENSION

U2251 Kwik Klip; 1/8x1.0 and 2.0mm
U2722 Ball Grippa Joints - U/Sh Stud 4prs
U3131 Alloy Spacers M3x7mm 0.5;1;2mm (pk18)
U3137 Shock Mounting Post - (pr)
U3209 Turnbuckle Adjuster; Gold - 24mm (pr)
U3213 Turnbuckle Adjuster; Gold - 53mm (pr)
U3214 Turnbuckle Adjuster; Gold - 60mm (pr)
U3299 Ball Grippa Joints; X-Long 4prs
U3300 Hub Carrier; Front - CAT SX pr
U3301 Hub Carrier; Rear - Cat/Cougar pr
U3305 Pivot Pin; Screw Type 12mm pr
U3306 Pivot Pin; Screw Type 52mm pr
U3307 Pivot Pin; Threaded 1/8x50mm pr
U3311 Axle Spacers - 2prs
U3316 Yoke - CAT SX pr
U3407 Wishbones; Front Med Flex - CAT SX2 pr
U3479 Ball Grippa Sockets-Short (pk 8)
U3496 Ball Studs; Short - pk 4
U3497 Ball Studs; Long - pk 4
U4179 Pivot Pin; Screw Type 29mm pr
U4180 Steering Pivots - CAT K1 pr
U4181 Wishbone Tube Black - K1 pr
U4182 Suspension Block Set - CAT K1
U4183 Steering Mouldings - CAT K1
U4184 Wishbones; Rear Med Flex- CAT K1 pr

TRANSMISSION

U2761 Diff Shims; 10x12
U3361 Roll Pins Set 2x3/8+4x1/2 - CAT SX
U3364 Slipper Pad; PTFE Octagon pr
U3368 Washers and Pins; Off Road Front Wheels
U3381 Alloy Wheel Hex; Front - CAT SX pr
U3599 Driveshafts; Front - CAT SX2 pr
U3852 Diff Output; Male - CAT SX3
U3853 Diff Output; Female - CAT SX3
U3854 Diff Screw Set; HD
U4185 Gear; CNC 98T Spur - Slipper
U4186 Bando Belt 4mmx120T
U4187 Bando Belt 4mmx132T
U4188 Cone; Rear Wheels pr
U4189 Mounts; Upper Trans - CAT K1 set 4
U4190 Pulley; CNC Alloy 20T - CAT K1
U4191 Alloy Mount; Front LH Trans-CAT K1
U4192 Alloy Mount ; Front RH Trans-CAT K1
U4193 Alloy Mount ; Rear LH Trans-CAT K1
U4194 Alloy Mount ; Rear RH Trans-CAT K1
U4195 Driveshafts; Rear - CAT K1 pr

TRANSMISSION Cont....

U4196 Diff Pulley & Fences - CAT K1
U4197 Rear Idler Post - CAT K1
U4198 Front Tension Arm Set - CAT K1
U4199 Diff HD - Assembled - CAT K1
U4200 Layshaft - CAT K1
U4201 Layshaft Spacer - CAT K1
U4202 Slipper Plate Inboard- CAT K1
U4203 Slipper Plate Outboard- CAT K1
U4204 Alloy Laymount LH - CAT K1
U4205 Alloy Laymount RH - CAT K1
U4206 Alloy Motor Mount - CAT K1
U4207 Belt Spacer 20T - CAT K1

BEARINGS AND BALLS

G200 ZX1 - Microlube
H1031 Bearing Blaster Aerosol 500ml
U1301 Silicone Diff Lube - Pot
U1954 Pro - Thrust Bearing
U1957 Moly Grease - Pot
U2698 Ball Bearing - 5x10x4 Red Sealed (pr)
U2699 Ball Bearing - 10x15x4 Red Sealed (pr)
U2862 Ceramic Bearing - 5x10x4 Shielded (pr)
U3017 Ceramic Bearing - 10x15x4 - Shielded (pr)
U3019 Diff Balls; Ceramic Nitride 2.5mm (pk12)
U3075 Ball Bearing 4x8x3mm Red Sealed (pr)
U3136 Ball Bearing - 5x8x2.5 - Shielded (pr)
U3386 Ceramic Bearing - 4x8x3 - Shielded (pr)
U3387 Ceramic Bearing - 5x9x3 MR95 (pr)
U3704 Thrust Bearing F3x8G SiNi Balls
U3855 Ball Bearing 5x10x3 Open (pr)
U3871 Ball Bearing 5x9x3 Red Seal (pr)

SHOCK ABSORBERS

U2999 Race Shock Seal Rebuild Pack (pr)
U3317 Race Shock Body; Fr Off Road pr
U3318 Race Shock Body; Rr Off Road pr
U3321 Race Shock Rod; Fr - Off Road pr
U3322 Race Shock Rod; Rr - Off Road pr
U4126 Small Bore Taper Piston 1.3mm - Black pr
U4149 Small Bore Adjuster (Big Bore Springs) - CAT K1 (pr)
U4150 Small Bore Shock Seal Hsg; Off Road pr
U4151 Small Bore Shock Top Cap; Off Road pr
U4152 Small Bore Shocks; Fr Off Road - Fully Assembled (pr)
U4153 Small Bore Shocks; Rr Off Road - Fully Assembled (pr)
U613 Spring Stop and Spacer Mouldings (pr)

BIG BORE SHOCKS

U3660 Big Bore Shocks; Med - Assembled
U3661 Big Bore Shocks; Long - Assembled
U3662 Big Bore Shock Body; Med pr
U3663 Big Bore Shock Body; Long pr
U3664 Big Bore Shock Cap; Off Road pr
U3665 Big Bore Shock Seal Housing pr
U3666 Big Bore Shock Adjusting Collar 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
U3782 HD Diaphragm - pk4
U4110 Off Road Shock O Ring 1/8 Silicone Pk 8

BIG BORE SPRINGS

U3673 Big Bore Spring Tuning Set; Med 7prs
U3674 Big Bore Spring Tuning Set; Long 6prs
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

BIG BORE SPRINGS Cont....

U3686 Big Bore Spring; Long - 3.5 pr
U3687 Big Bore Spring; Long - 4.0 pr

CORE SHOCK SPRINGS

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

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
CR209 CORE RC Silicone Oil - 550cSt - 60ml
CR210 CORE RC Silicone Oil - 600cSt - 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
MR33-OIL MR33 Oil Bag L260 x W160 x H180mm

SPEED PACKS

CR024 CORE RC - Serrated M4 Steel Wheel Nut pk4
CR035 CORE RC - Serrated Alloy M4 Nuts; Blue pk 4
CR036 CORE RC - Serrated Alloy M4 Nuts; Purple pk 4
CR061 Small Body Clip 1/10 - Silver (8)
CR062 Small Body Clip 1/10 - Gold (8)
CR063 Small Body Clip 1/10 - Fluorescent Yellow (8)
CR064 Small Body Clip 1/10 - Fluorescent Green (8)
CR065 Small Body Clip 1/10 - Fluorescent Red (8)
CR066 Small Body Clip 1/10 - Metallic Green (8)
CR067 Small Body Clip 1/10 - Metallic Red (8)
CR068 Small Body Clip 1/10 - Metallic Blue (8)
CR069 Small Body Clip 1/10 - Metallic Purple (8)
U1544 SPEED PACK - Short M3; Cap Hd
U1545 SPEED PACK - M3 Cap Hd 16;20mm
U1547 SPEED PACK - M3 Nuts
U1548 SPEED PACK - M3 Washers
U1549 SPEED PACK - M4 Nuts and Washers
U1550 SPEED PACK - Socket Wrenches (pk3)
U1551 SPEED PACK - E Clips -2 x 8pcs
U1552 SPEED PACK - R Clips
U1633 SPEED PACK - Small Pins (pk)
U1700 SPEED PACK-M4x12 Csk Hi Tensile (4)
U1960 SPEED PACK - O Rings; Various
U2128 SPEED PACK - Grub-Set Screws M3 M4
U2356 SPEED PACK - M3x16-30 Csk Screws (pk12)
U2631 SPEED PACK - Circlips Various 15 pcs
U2760 SPEED PACK - M3 Button Hd; 4 to 20
U2856 SPEED PACK - Sticky Cable Clips (pk10)
U2857 SPEED PACK - Small Cable Ties (pk25)
U2988 M3 Csk Washers - Purple Alloy (pk10)
U3022 SPEED PACK - M3x8 Csk Allen Hi-T
U3023 SPEED PACK - M3x10 Csk Allen Hi-T
U3131 Alloy Spacers M3x7mm 0.5;1;2mm (pk18)
U3168 SPEED PACK - M2.5/M2.6 Screws
U3369 SPEED PACK - M4 Button Head Screws pk6
U3524 SPEED PACK-M4x8 Csk Hi Tensile (4)
U3583 SPEED PACK - M4x12 Cap Hd pk 8
U3584 Alloy Spacers M4x9mm 0.5;1;2mm (pk10)
U4124 Speed Pack - Shims 5 x 7 x 0.4mm - pk6
U4154 SPEED PACK - M4x20 Cap Hd
U4155 M3 Csk Washers - Black Alloy (pk10)
U4156 SPEED PACK - M2.5 x 8 Cap SS
U4157 SPEED PACK - M3 x 25 Button Hd

SPEED SECRET - OPTION PARTS

S500B Schumacher BANNER 6x3ft
U1573 Titanium Turnbuckle; purple - 53mm (pr)
U1574 Titanium Turnbuckle; purple - 60mm (pr)
U2053 Titanium Turnbuckle; purple - 25mm (pr)
U2994 Violet Shock Adjuster (Small Bore Springs) (pr)
U3304 Pivot Block; Front - CAT SX pr
U3313 Wishbone Tube Violet - K1 pr
U3319 Race Shock Piston; CNC 2 Hole Off Road
U3320 Race Shock Piston; CNC 3 Hole Off Road
U3323 Race Shock Seal Hsg Violet; Off Road pr
U3324 Race Shock Top Cap Violet; Off Road pr
U3334 Cone; Rear Wheels Violet; Off Road pr
U3404 Alloy Yoke; 7.5deg - CAT SX (pr)
U3490 Alloy Servo Mounts
U3499 Roll Bar Blocks - Mi4 pk4
U3500 Pro-Ball Socket; Black - pk 8
U3556 Pivot Block M4; Front 10 degree - CAT SX pr
U3559 Alloy Yoke; 12.5deg - CAT SX (pr)
U3597 Wishbone; Front Stiff - CAT SX (pr)
U3660 Big Bore Shocks; Med - Assembled
U3661 Big Bore Shocks; Long - Assembled
U3603 Alloy Front Blocks; 7.5 deg - CAT SX2
U3605 Kwik Klip; 1/8 x 1.0 and 2.0mm
U3611 Alloy Spring Seat - All shock types pr
U4125 Small Bore Taper Piston 1.2mm - White pr
U4127 Small Bore Taper Piston 1.4mm - Red pr
U4130 Vented Shock Caps - Small Bore - (Pr)
U4158 M4 x12 Alloy Cap Hd Violet
U4159 Chassis Option - CAT K1
U4160 Rear Alloy Block Conversion Set - CAT K1
U4161 Radius Arms; CNC Alloy - CAT K1
U4162 Centre Track Rod; CNC Alloy - CAT K1
U4163 Gear; CNC 95TSpur - Slipper
U4164 Alloy Mount; Front Upper Trans - CAT K1 (pr)
U4165 Roll Bar Set - Front - CAT K1 set 3
U4166 Wishbone; Rear Stiff - CAT K1 (pr)
U4167 C/F Link Mount; Front 33.50mm - CAT K1
U4168 C/F Link Mount; Front 42.50mm - CAT K1
U4169 C/F Link Mount; Rear 33.50mm - CAT K1
U4170 C/F Link Mount; Rear 42.50mm - CAT K1
U4171 Alloy Mount; Rear Upper Trans - CAT K1 pr
U4172 Roll Bar Set - Rear - Cat K1
U4173 True C.V. Driveshaft; Front - CAT K1 pr
U4174 Gear Diff - CAT K1
U4175 Gear Diff Mouldings - CAT K1
U4176 Gear Diff Gear Set - CAT K1
U4177 Gear Diff Rebuild Kit - CAT K1
U4178 Gear Diff Output - CAT K1

TEAM CLOTHING

G315 Schumacher Pit Towel
G336L Sweat - Large
G336M Sweat - Medium
G336S Sweat - Small
G336XL Sweat - X-Large
G336XXL Sweat - XX-Large
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
G342M T - Navy - MediumG342S T - Navy - Small
G342XL T - Navy - X-Large
G342XXL T - Navy - XX-Large
G342XXXL T - Navy - XXX-Large
G342XXXXL T - Navy - XXXX-Large
G342XXXXXL T - Navy - XXXXX-Large
G343L Sweat - Navy - Large
G343M Sweat - Navy - Medium
G343S Sweat - Navy - Small
G343XL Sweat - Navy - X-Large
G344L Polo - Navy - Large

TEAM CLOTHING Cont....

G344M Polo - Navy - Medium
G344S Polo - Navy - Small
G344XL Polo - Navy - X-Large
G344XXL Polo - Navy - XX-Large
G344XXXL Polo - Navy - XXX-Large
G344XXXXL Polo - Navy - XXXX-Large
G344XXXXXL Polo - Navy - XXXXX-Large

TOOLS

C4450 CS Superglue 20 g
CR044 CORE RC - Curved Body Scissors
CR045 CORE RC - Straight Body Scissors
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)
H1032 Alloy Camber Gauge - 1/10th
H1055 GT85 Lube and Clean Aerosol 400ml
H1056 Loctite 243 Thread Lock
H1057 Loctite Precision Super Glue - 5g
U1300 Axle Grease - Pot
U1301 Silicone Diff Lube - Pot
U1957 Moly Grease - Pot
U2789 Schumacher Hex Driver - 1.5mm
U2790 Schumacher Hex Driver - 2.0mm
U2791 Schumacher Hex Driver - 2.5mm
U2792 Schumacher Hex Driver - 3.0mm
U2795 Schumacher M3 Nut Driver
U2796 Schumacher M4 Nut Driver
U2818 Schumacher Body Reamer

PINIONS

CRW2001 Pinion Caddy
MR-PINION MR33 Pinion Gear Holder
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.
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

1-10 BUGGY OFF ROAD TYRES

CR143 Multi Bow; 1/10 Off Rd Rear (pr)
CR144 Multi Bow; 1/10 Off Rd 4WD Front (pr)
CR145 Multi Block; 1/10 Off Rd Rear (pr)
CR146 Multi Block; 1/10 Off Rd 4WD Front (pr)
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)
U6557 Mini Spike 2; Front Tyres - Yellow (pr)
U6558 Mini Spike 2; Rear Tyres - Yellow (pr)
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)

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

U6608 Mini Pin - Yellow - Rear - 2.2 (pr)
U6739 Mini Spike2 Pre-Glue; Yellow - Cat Front (pr)
U6740 Mini Spike2 Pre-Glue; Yellow - Cat Rear (pr)
U6741 Mini Pin Pre-Glue; Yellow - Cat Front (pr)
U6742 Mini Pin Pre-Glue; Yellow - Cat Rear (pr)
U6762 Mini Spike 2; Front Tyres - Silver (pr)
U6763 Mini Spike 2; Rear Tyres - Silver (pr)
U6777 Mini Pin - Silver - Front - 2.2 (pr)
U6778 Mini Pin - Silver - Rear - 2.2 (pr)

1-10 BUGGY WHEELS AND INSERTS

CR141 Red Moulded Insert; 1/10 Off Rd Rear
CR142 Red Moulded Insert; 1/10 Off Rd 4WD Front
U3405 Wheel; Front Fluro Yellow - Cat (pr)
U3406 Wheel; Rear Fluro Yellow - 2WD/4WD (pr)
U4101 Wheel Rear 2WD/4WD - Flexlite White (pr)
U4102 Wheel Front 4WD - Flexlite White (pr)
U4131 Wheel; Front Black - CAT K1 (pr)
U4132 Wheel; Rear Black - 2WD/4WD (pr)
U6652 Foam Tyre Insert; Hard - Front - CAT (pr)
U6653 Foam Tyre Insert; Hard - Rear - CAT (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)
U6746 Tubby Insert; Med Front - CAT (pr)
U6747 Tubby Insert; Med Rear - CAT (pr)

BATTERIES

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
CR059 CORE RC - Safe Charge Pouch 23x30cm
CR115 CORE RC Silicone Wire 12g - Red/Black/Blue 3x50cm
CR124 Heatshrink 6.0mm dia Black - 20pcs
CR125 Heatshrink 6.0mm dia Red - 20pcs
CR170 CORE RC Lipo Locker - 17 x 8 x 7cm
CR171 CORE RC - 4000mAHr 7.4V 20C/40C Saddle Lipo
G718 GP Alkaline AA Pencell; Card 4
GM99009 Lipo-saddle V-Maxx 60C 2x1S3P/5600 3, 7V G4
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
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
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
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
GM97289.1N GM Sensor Board
MR-FAN PROTECTOR MR33 25mm Fan Protector
NR90631 PURE MR104 Ceramic BB (pr)
NR90632 PURE Small Parts Set
NR90633 PURE Sensor Assembly
NR90635 PURE Evo Light Alloy Front Hsg
NR90636 PURE Evo Alloy End Cover
NR90637 PURE Evo 694ZZ Ball Bearings (2 pcs)
NR90644 PURE Evo Tuning Sintered Rotor - 12.0mm
NR90645 PURE Evo Tuning Sintered Rotor - 12.5mm
NR90646 PURE Evo Tuning Sintered Rotor - 13.0mm
NR92500 USB Bridge - Speedo Firmware Update Device
NR92501 USB Bridge Spec2 - Speedo Firmware Update Device
NR92512 Cooling Fan; Low Profile - Include Mounting Screws
NR925307 NOSRAM Sensor Wire HighFlex 70mm

BRUSHLESS ACCESSORIES Cont....

NR925315 NOSRAM Sensor Wire HighFlex 150mm
NR925320 NOSRAM Sensor Wire HighFlex 200mm
SP000005 Reventon Capacitor 2S
SP000007 Multi 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
SP162801 SP - Sensor Cable 180mm
SP162802 SP - Sensor Cable 90mm
SP162810 SP - HiPower Solder Post; 3pcs
SP162820 SP - HiPower Connector; V3.0 Motors 3pcs
SP1EB01 SP Endbell; Fixed Timing V3.0
SPAMSSC3M SP - Super Capacitor 3 Farads 6 Volt rated
SPCBB138238 SP - Ceramic Motor Bearing
SPRM13801 Rotor; V3.0 3.5T- 8.5T 12mm Blue
SPRM13802 Rotor; V3.0 3.5T- 8.5R 12.3mm S7 Purple
SPRM13802NA Rotor; V3.0 3.5T- 8.5T 12.3mm S7 Silver
SPRM13803 Rotor; V3.0 3.5T- 8.5T 12.5mm Red
SPRM13803NA Rotor; V3.0 3.5T- 8.5T 12.5mm Silver
SPRM13804 Rotor; V3.0 3.5T-8.5R 12.8mm Golden
SPRM13805 Rotor; V3.0 3.5T- 8.5T 13mm Green
SPRM13806 Rotor; V3.0 3.5T-8.5T 13mm S7 Orange
TPM-P1000 Thunder Power Bearing Replacement Tool
TPM-P100 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/M540"
TPM-P1005 Thunder Power Sensor Unit w/Std Bearing S/M540/550
TPM-P1007 Thunder Power Outer Can/Case w/Screws S/M 540
TPM-P1008 Thunder Power Timing Cap w/Screws S/M540/550
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 Gr
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 Motor
TPM-S540A035 Thunder Power 3.5T Modified 540 Stator Motor
TPM-S540A040 Thunder Power 4.0T Modified 540 Stator Motor
TPM-S540A045 Thunder Power 4.5T Modified 540 Stator Motor
TPM-S540A050 Thunder Power 5.0T Modified 540 Stator Motor
TPM-S540A055 Thunder Power 5.5T Modified 540 Stator Motor
TPM-S540A060 Thunder Power 6.0T Modified 540 Stator Motor
TPM-S540A065 Thunder Power 6.5T Modified 540 Stator Motor
TPM-S540A075 Thunder Power 7.5T Modified 540 Stator Motor
TPM-S540A085 Thunder Power 8.5T Modified 540 Stator Motor
TPM-S540A095 Thunder Power 9.5T Modified 540 Stator Motor
TPM-S540A105 Thunder Power 10.5T Stock Spec 540 Stator Motor
TPM-S540A135 Thunder Power 13.5T Stock Spec 540 Stator Motor
TPM-S540A175 Thunder Power 17.5T Stock Spec 540 Stator Motor
TPM-S540A215 Thunder Power 21.5T Stock Spec 540 Stator Motorn

BRUSHLESS ESC AND MOTOR COMBO

SP000189 Reventon-R ESC-2S-Silver Comp V3.0-5.5R Combo
SP000190 Reventon-R ESC-2S-Sliver Comp V3.0-6.5R Combo
SP000191 Reventon-R ESC-2S-Silver Comp V3.0-7.5R Combo
SP000192 Reventon-R ESC-2S-Silver Comp V3.0-8.5R Combo
SP000199 Reventon Stock Club Race 8.5 Combo Comp V3 Motor
SPPRO55V3 Reventon Pro ESC with Comp V3.0-5.5 Combo
SPPRO65V3 Reventon Pro ESC with Comp V3.0-6.5 Combo
SPPRO75V3 Reventon Pro ESC with Comp V3.0-7.5 Combo
SPPRO85V3 Reventon Pro ESC with Comp V3.0-8.5 Combo

BRUSHLESS MOTORS

GM9729 GM Pro 6.5T - Star Wind
GM97405 GM Race BL Motor 5.5T
NR90550 Cobra Brushless Motor - 6.5T
NR90648 Nosram Pure 2 BL - 10.5T
NR90649 Nosram Pure 2 BL - 9.5T
NR90654 Nosram Pure 2 BL - 8.5T
NR90664 Nosram Pure 2 BL - 7.5T
NR90673 PURE Evolution BL - 6.5t OCTA WIND
NR90674 Nosram Pure 2 BL - 6.5T
NR90682 PURE Evolution BL - 5.5t
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

BRUSHLESS MOTORS Cont....

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 SPEEDCONTROLS

CR173 PACE 45R Brushless ESC 1s/2s
CR174 PACE 45R Programming Card
GM97168.B GM-Genius 120 with Boost 3.7 - 7.4V
NR90430 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

CHARGERS AND DISCHARGERS

CR031 UDC Charger Connector Set
CR114 UDC Balance Adaptor Set JST-XH to JST-EH 2-6S
CR161 UAC50 Charger 12v/110-240v 6A
GM6460 Power Supply 12v 25 Amp
GM6468.GB Ultramat 16S + 3076
GM6475 Ultra Duo Plus 45 Charge System
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
TPDLC-250A Thunder Power Balancer to Charger Data Link Cable

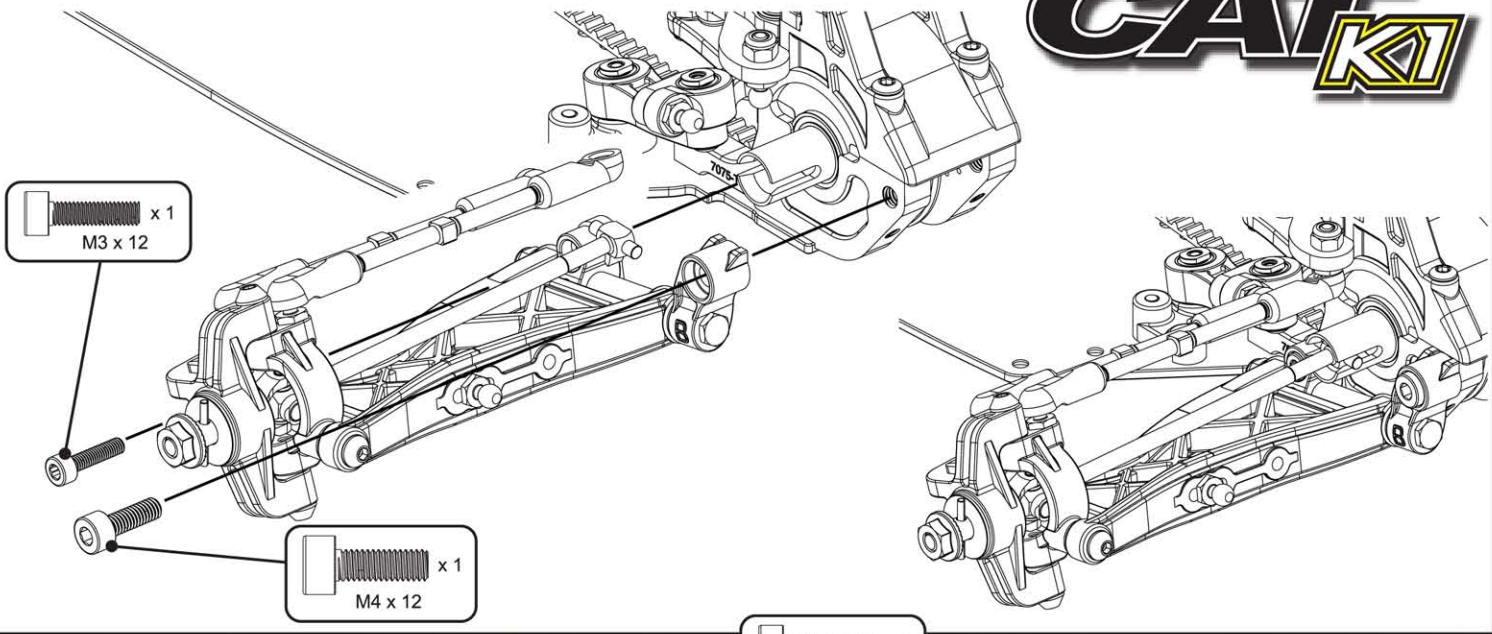
ELECTRONICS

AN530400HV Digital BL Servo 10.7Kg for 1/10th Steering
AN530410HV Digital BL Servo 22Kg for 1/8 & 1/10 Buggy/Truggy
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
ED199502 EDS Ultra Bright L.E.D. Light Stand
G837 Mini Temp Gun - 420F 230C
GM7987 Servo HBS 790 BB, MG
GM7990 Servo HBS 860 BB, MG
GM7991 Servo HBS 870 BB, MG
GM94050 GM Servo SLP High Voltage Brushless
GM94051 GM Servo SST High Voltage Brushless
GM94411 GM Soldering Station 90W ESD

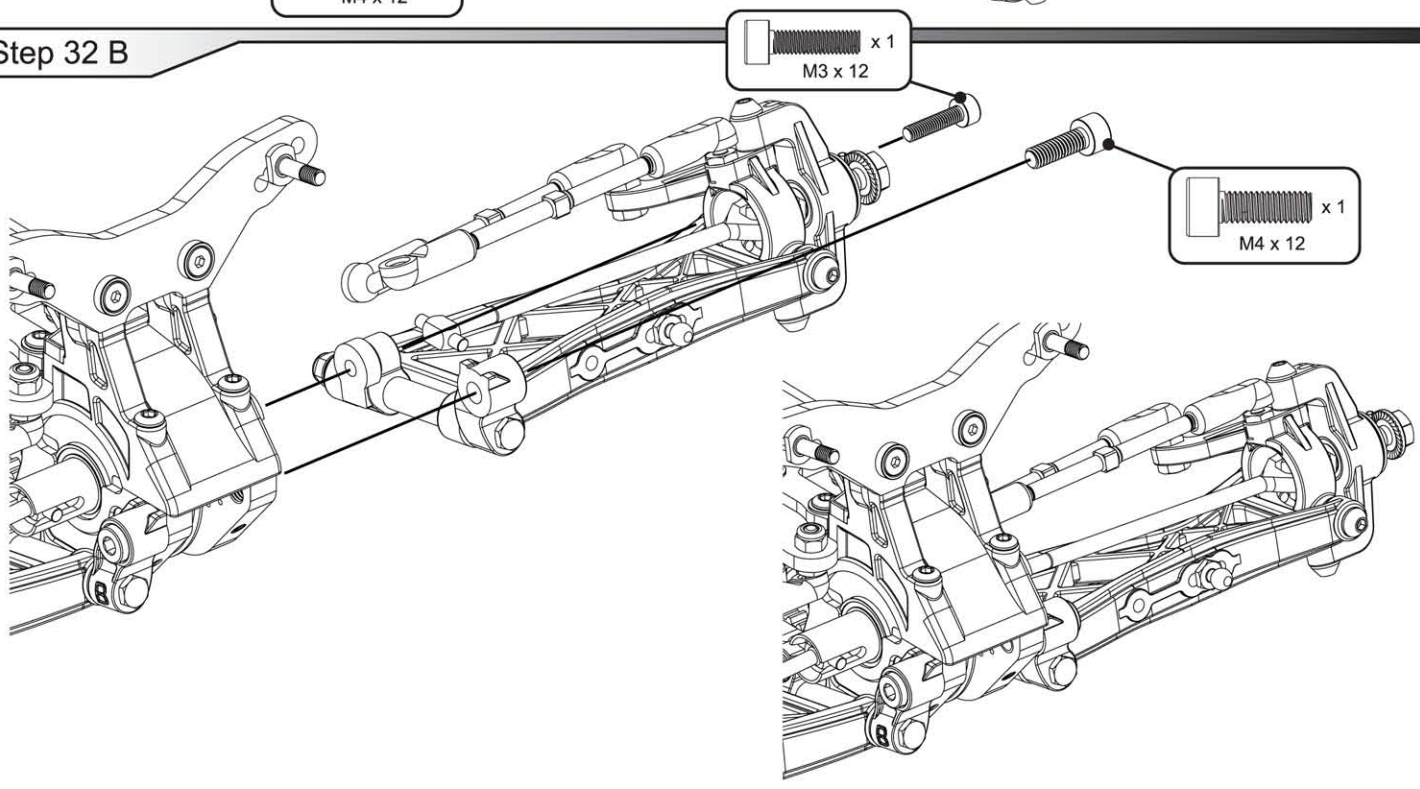
GENERAL ACCESSORIES

CR043 CORE RC - Silver X-Weights 16pcs
CR058 CORE RC - Black X-Weights 16pcs
MR-CSOFFROAD MR33 Car Stand Off Road
MR-SUPER GLUE Perfect Super Glue for Rubber Tyres

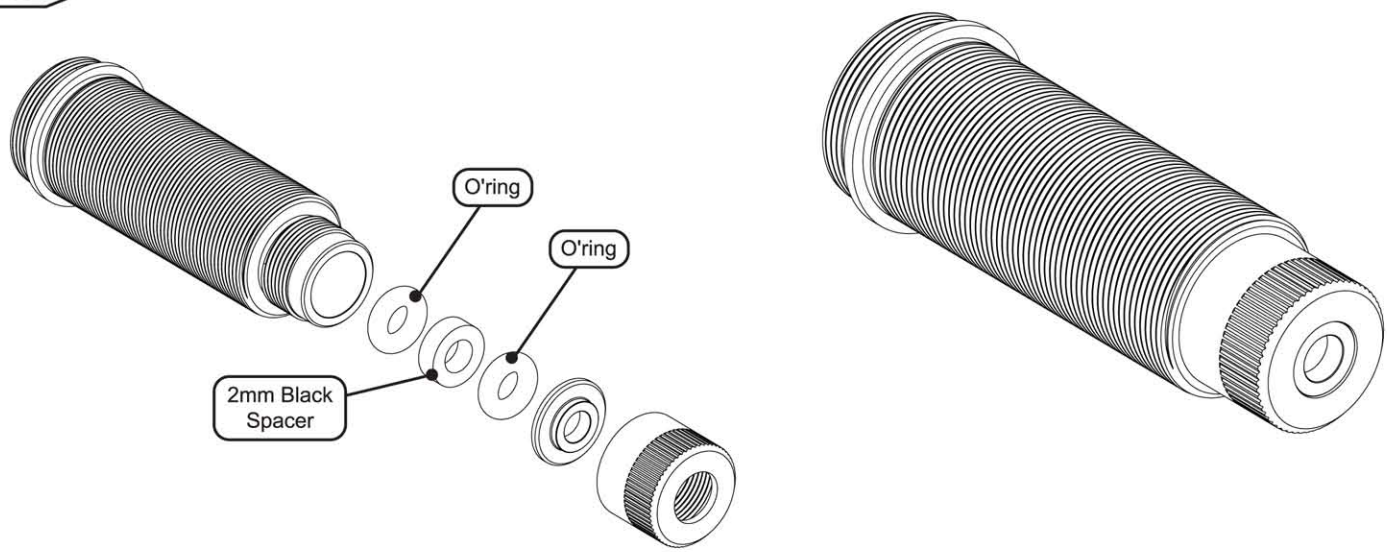
Step 32 A



Step 32 B



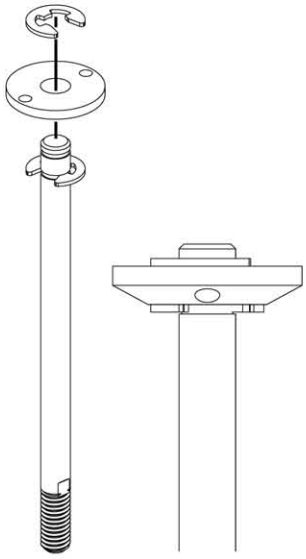
Step 33



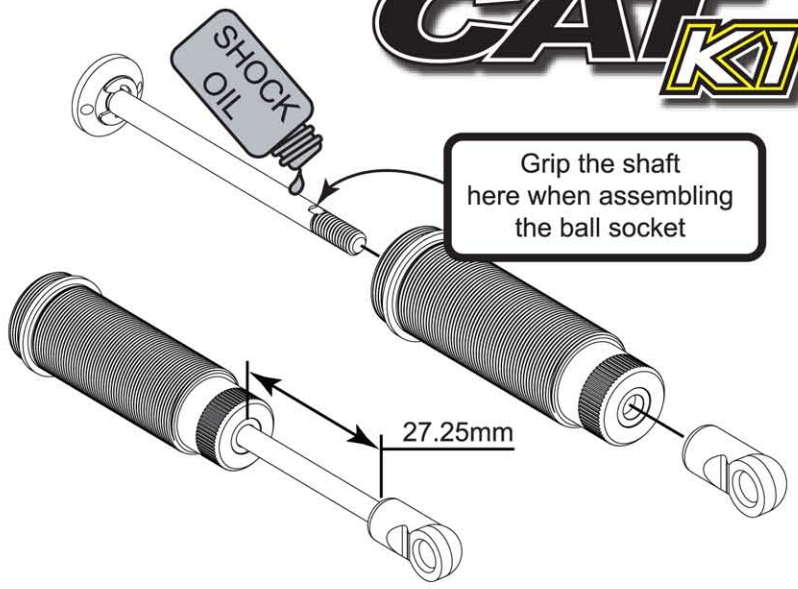
Step 34 A



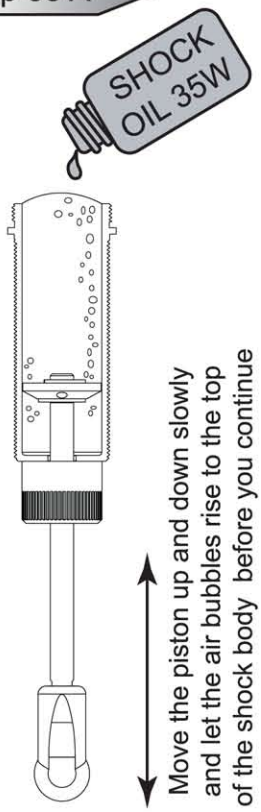
Step 34 B



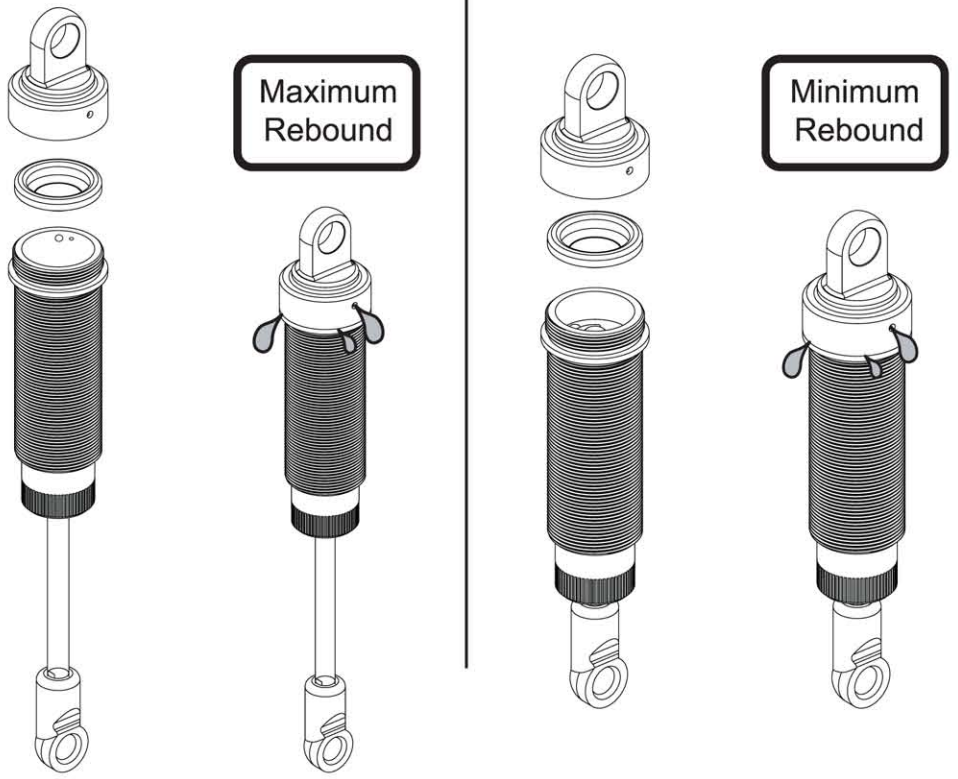
Step 34 C



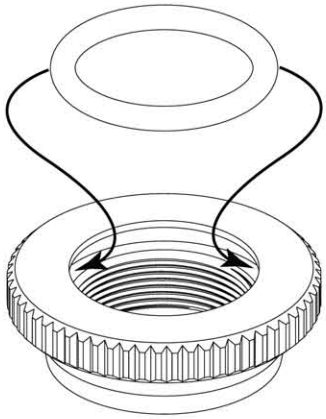
Step 35 A



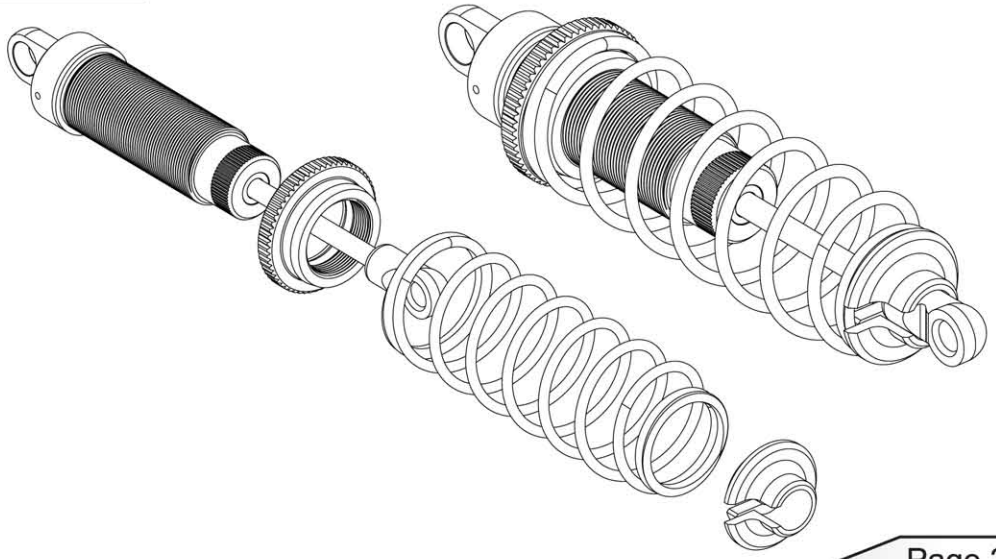
Step 35 B



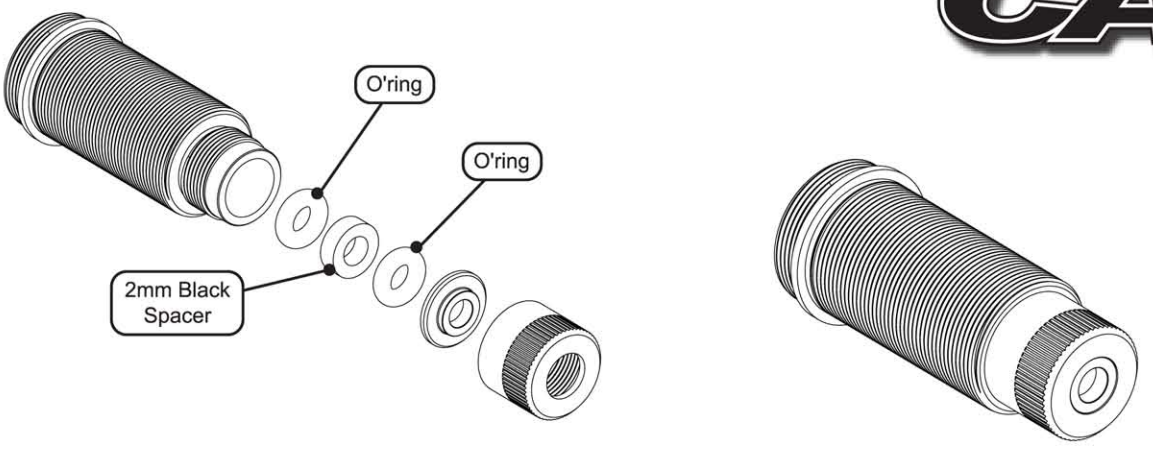
Step 35 C



Step 35 D



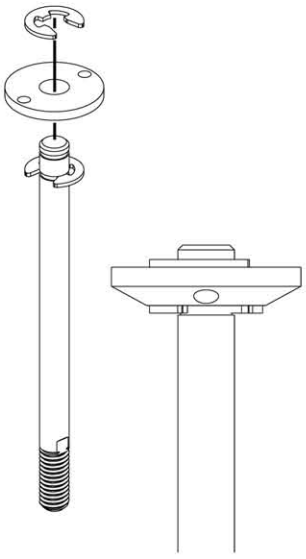
Step 36



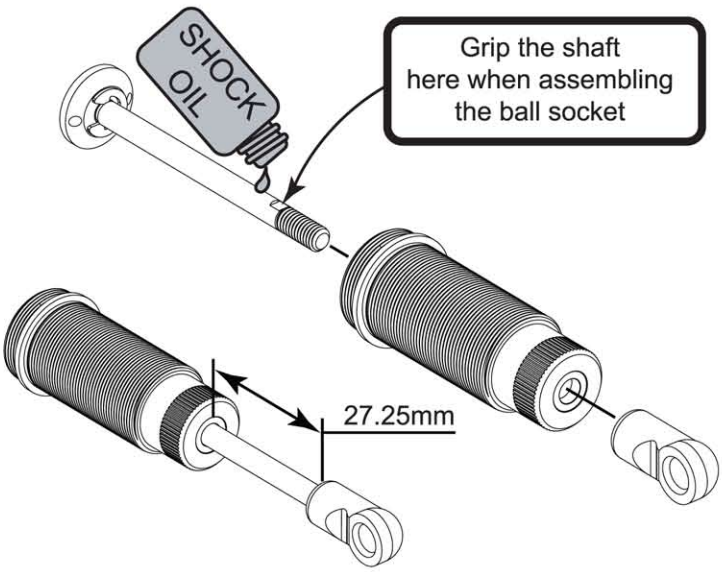
Step 37 A



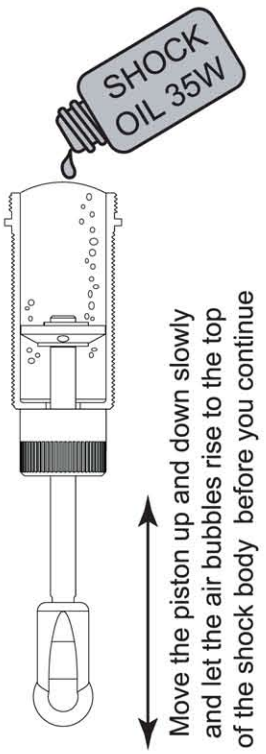
Step 37 B



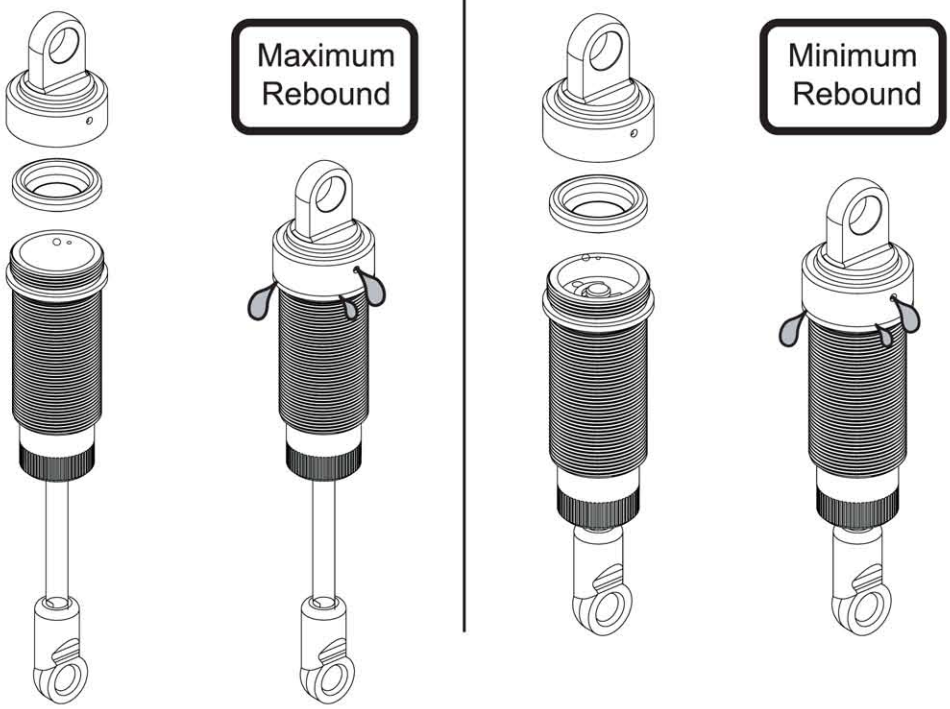
Step 37 C



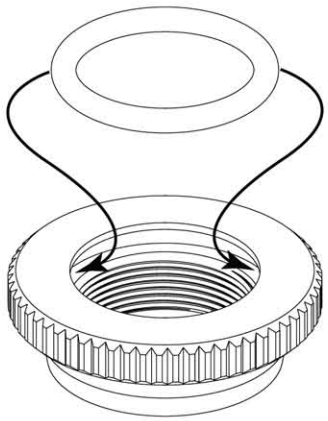
Step 38 A



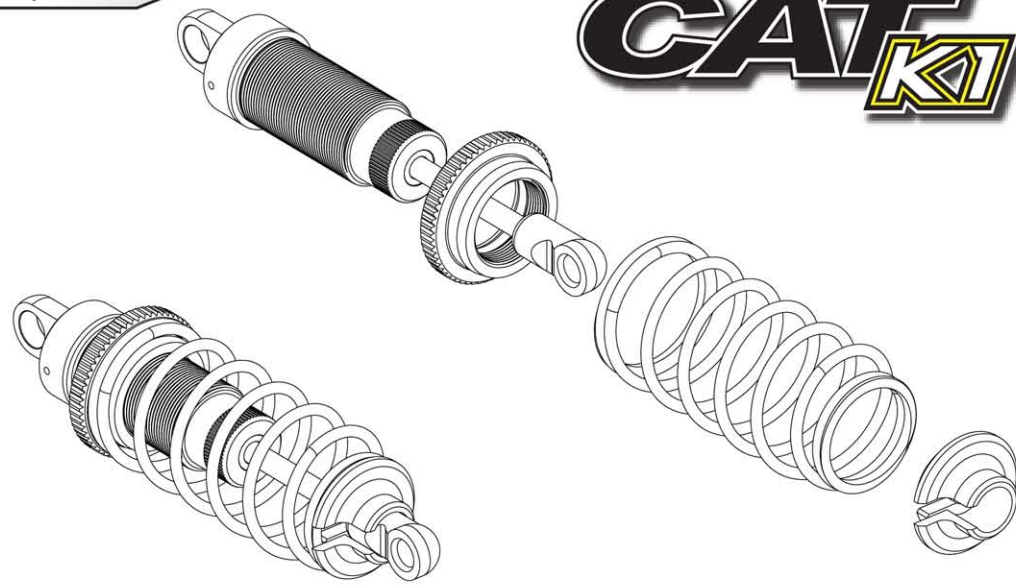
Step 38 B



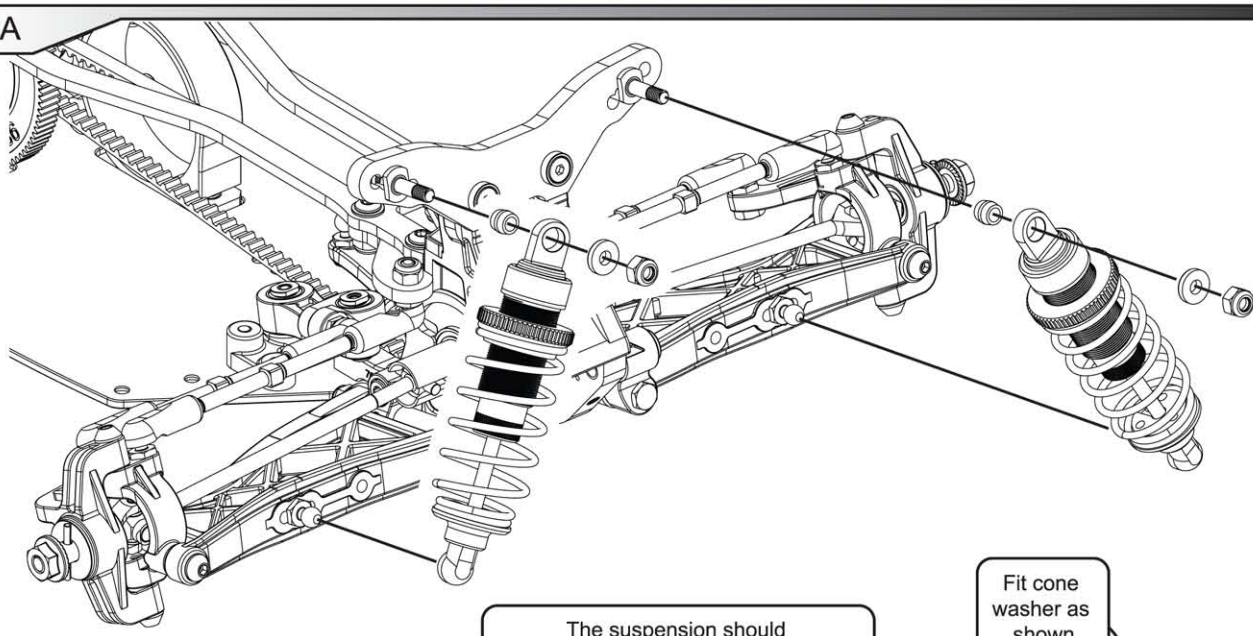
Step 38 C



Step 38 D

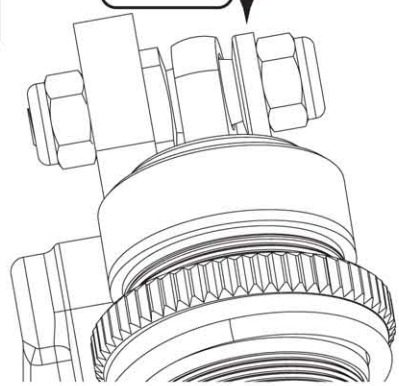


Step 39 A

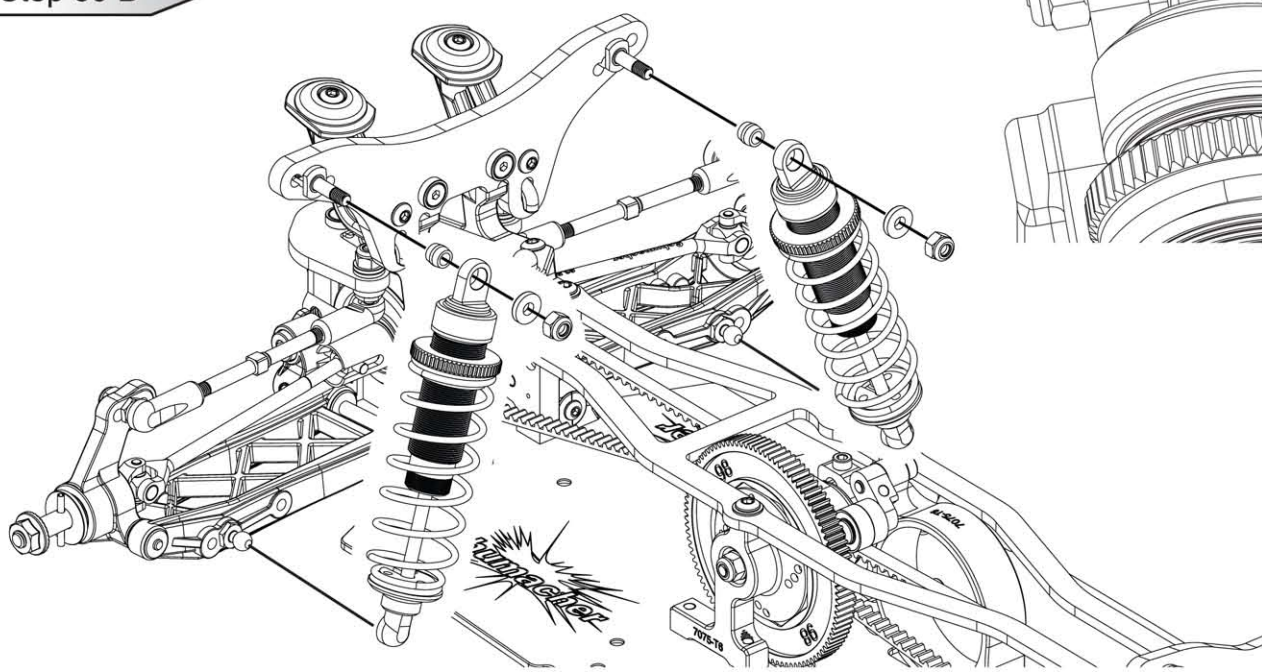


The suspension should move up and down very easily and smoothly.

Fit cone washer as shown

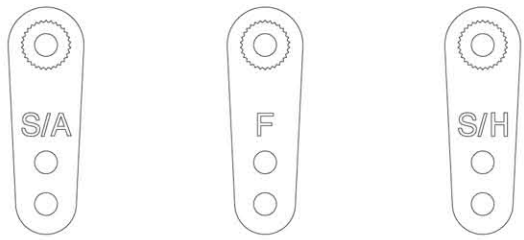


Step 39 B



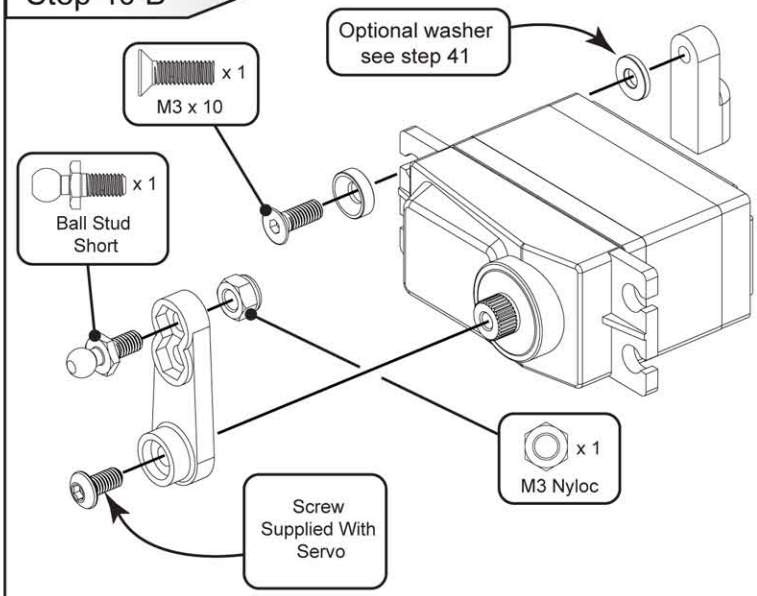
Step 40 A

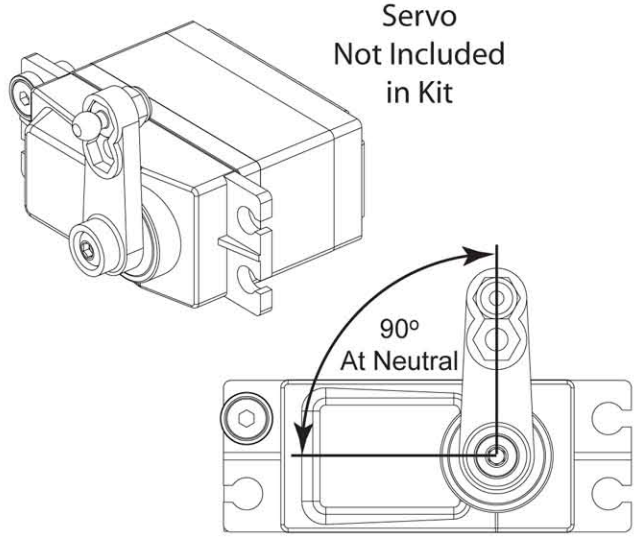
Choose the correct Servo Horn



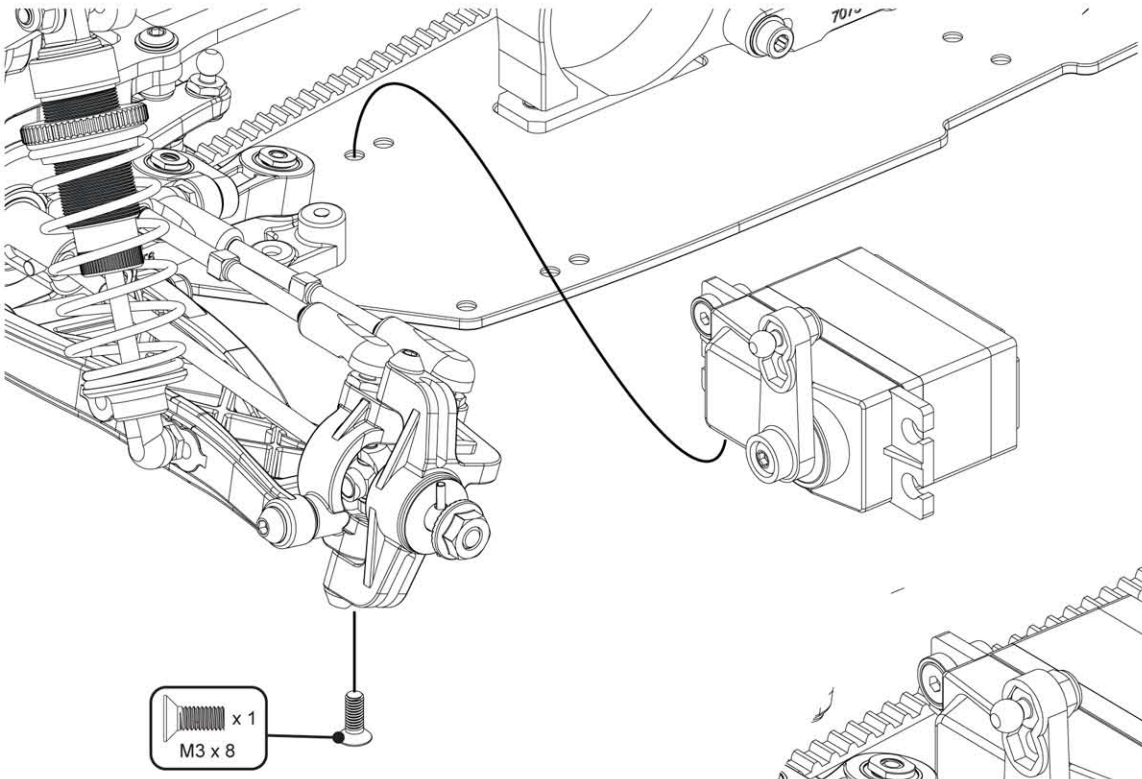
KO or Sanwa | Futaba | Hi-tec

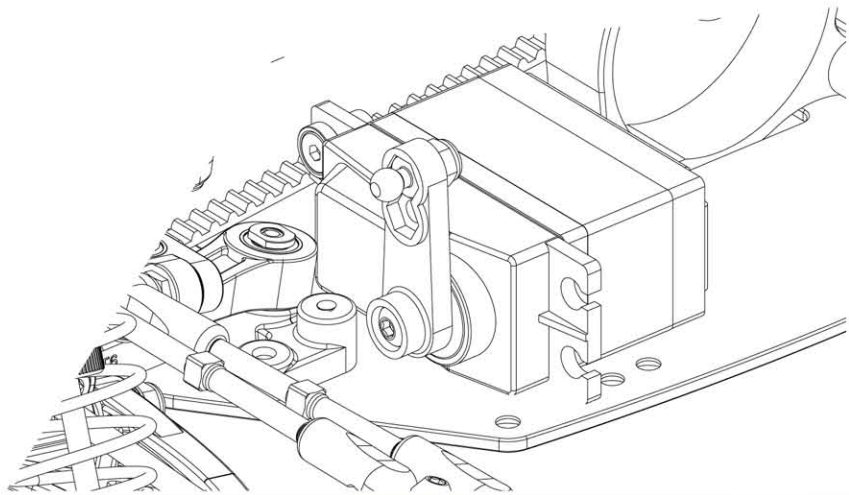
Step 40 B



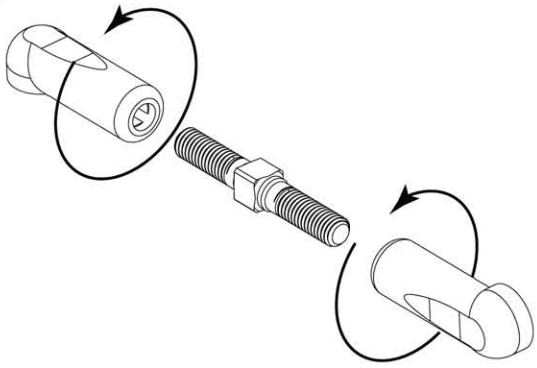


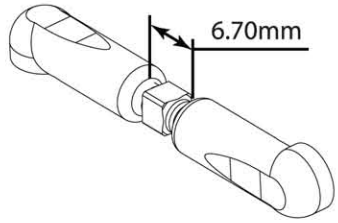
Step 40 C



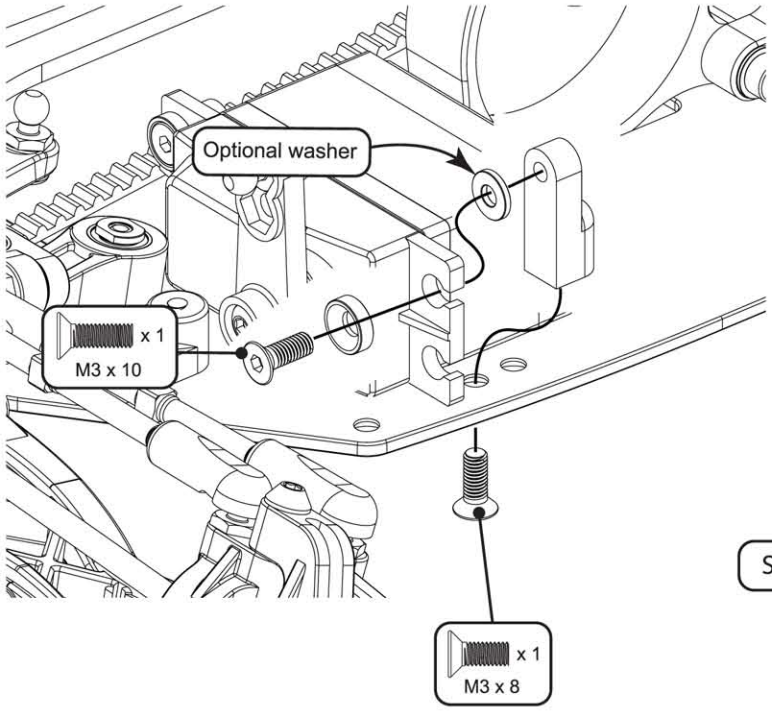


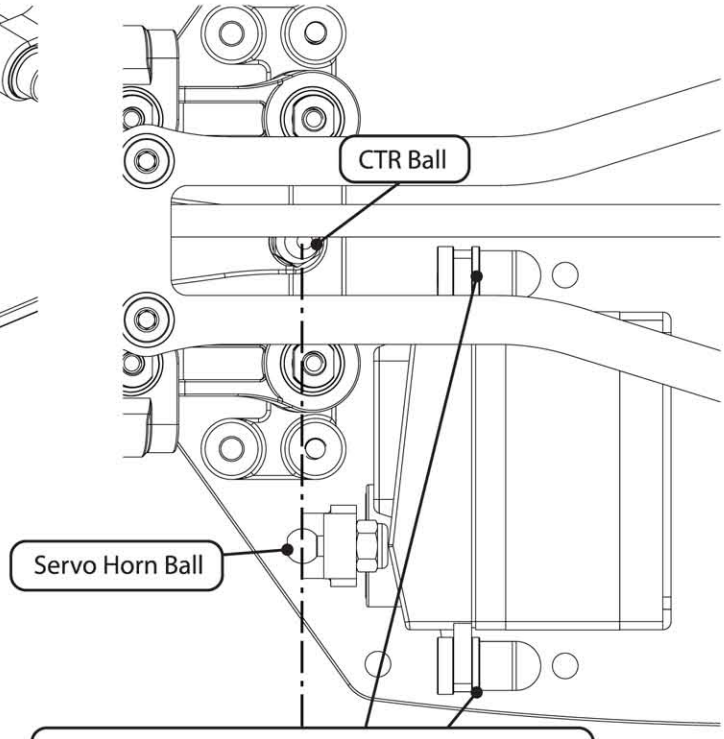
Step 41 A





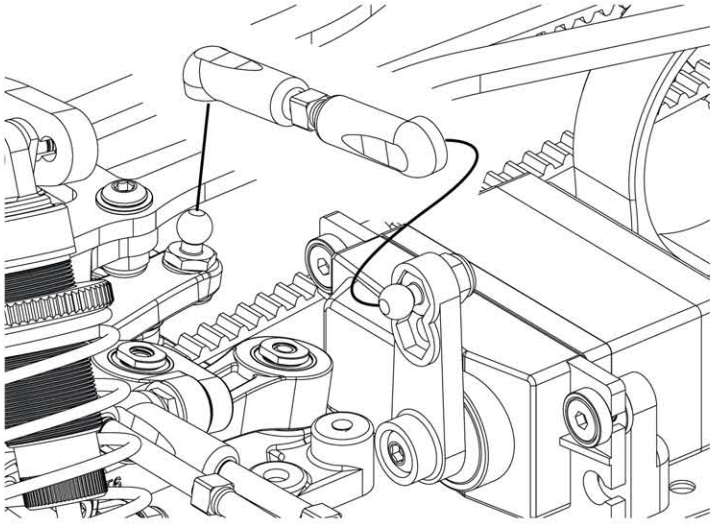
Step 41 B

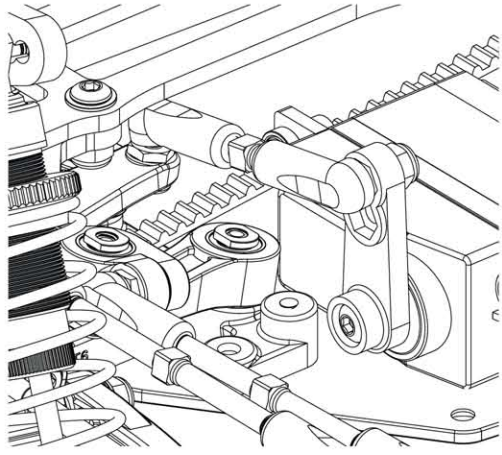




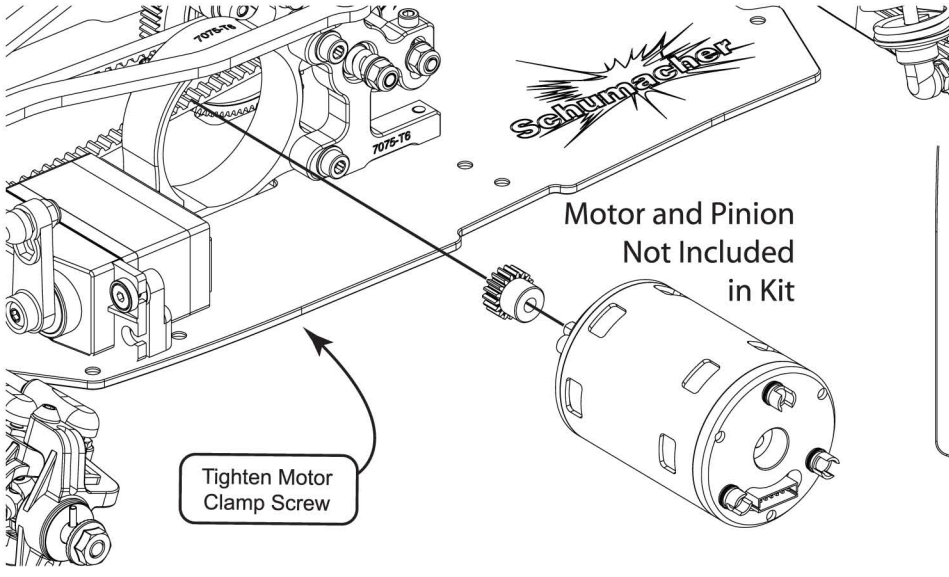
Add or remove washers to get alignment
of these two Balls.
(Servos with extreme offsets may need
to use the rearward servo holes in the chassis)

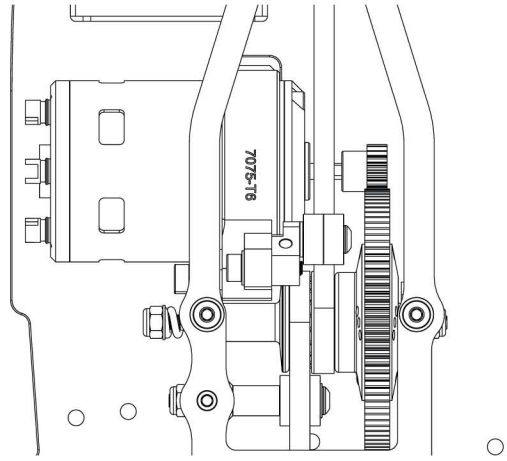
Step 41 C



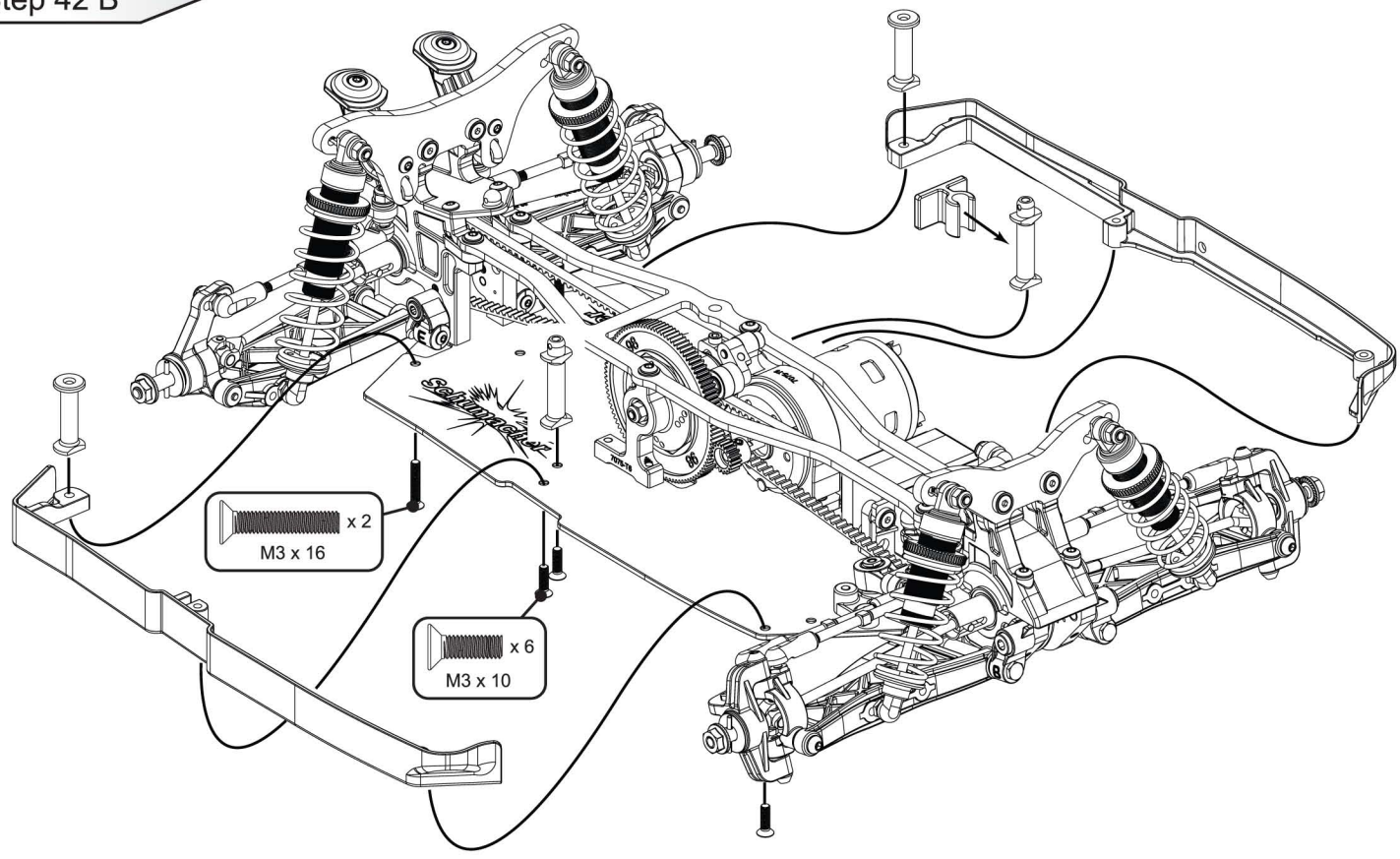


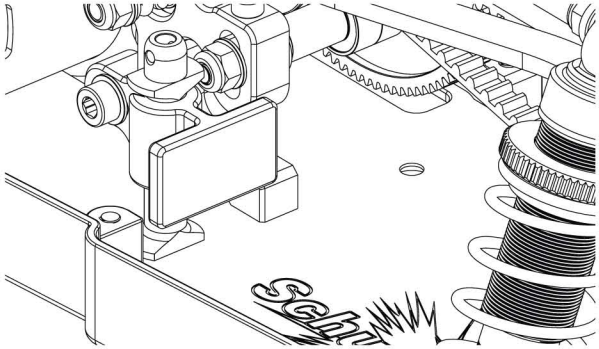
Step 42 A

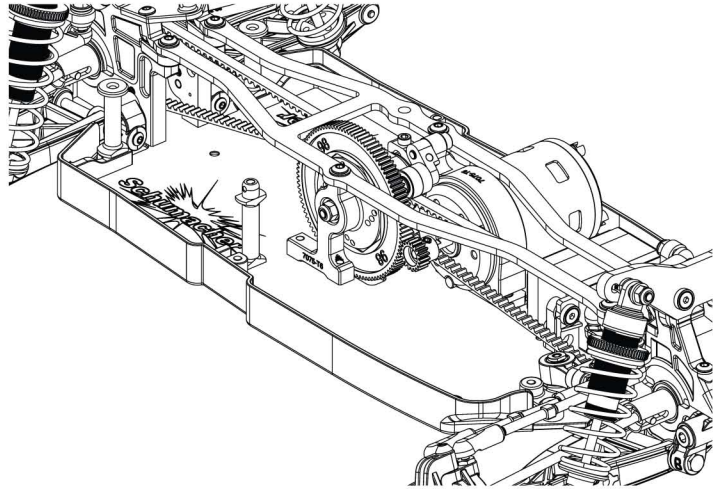




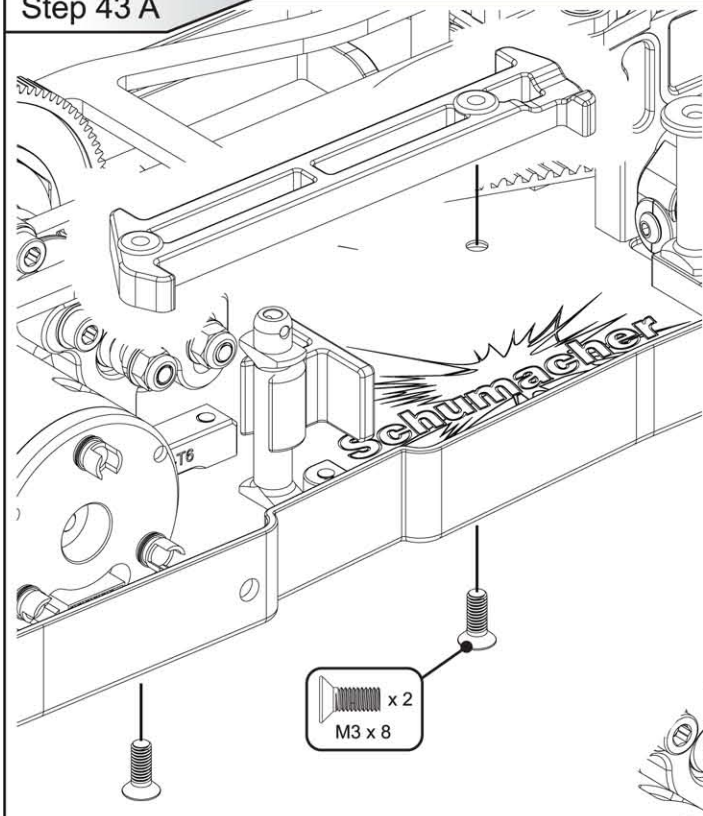
Step 42 B

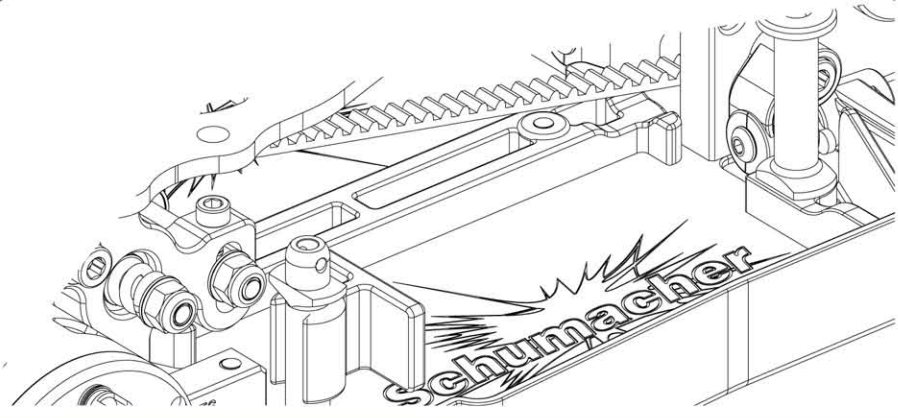




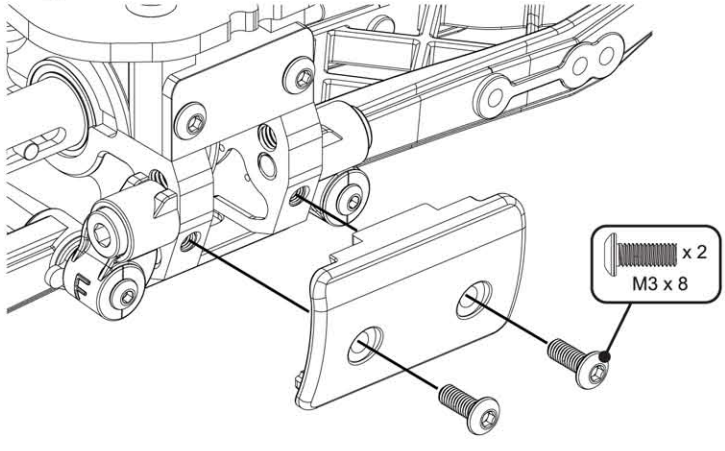


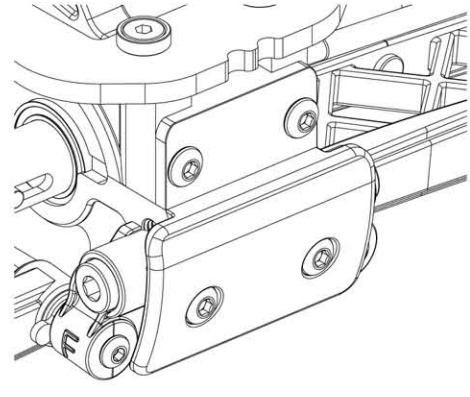
Step 43 A



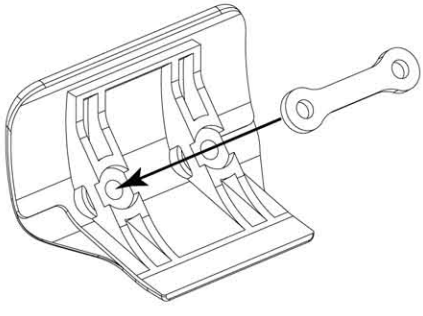


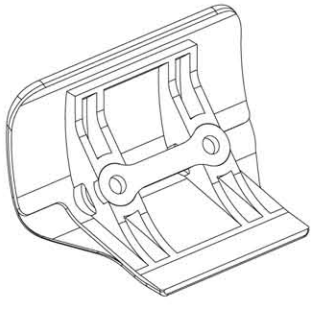
Step 43 B

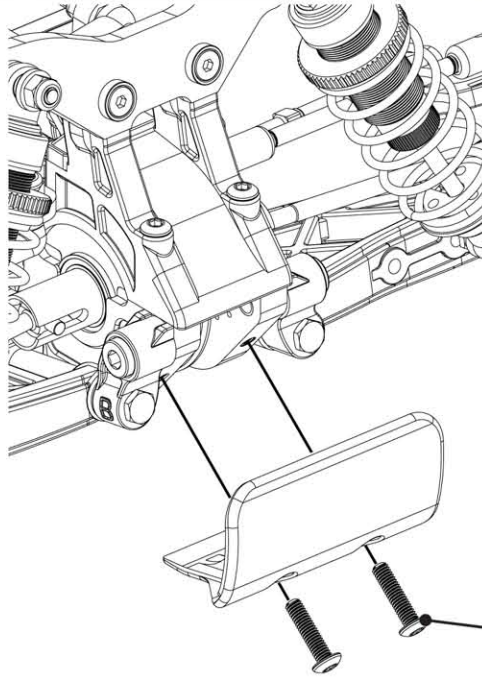


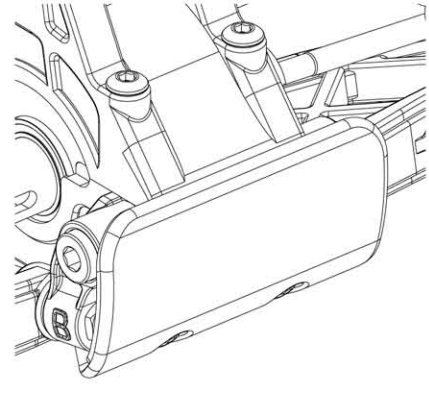


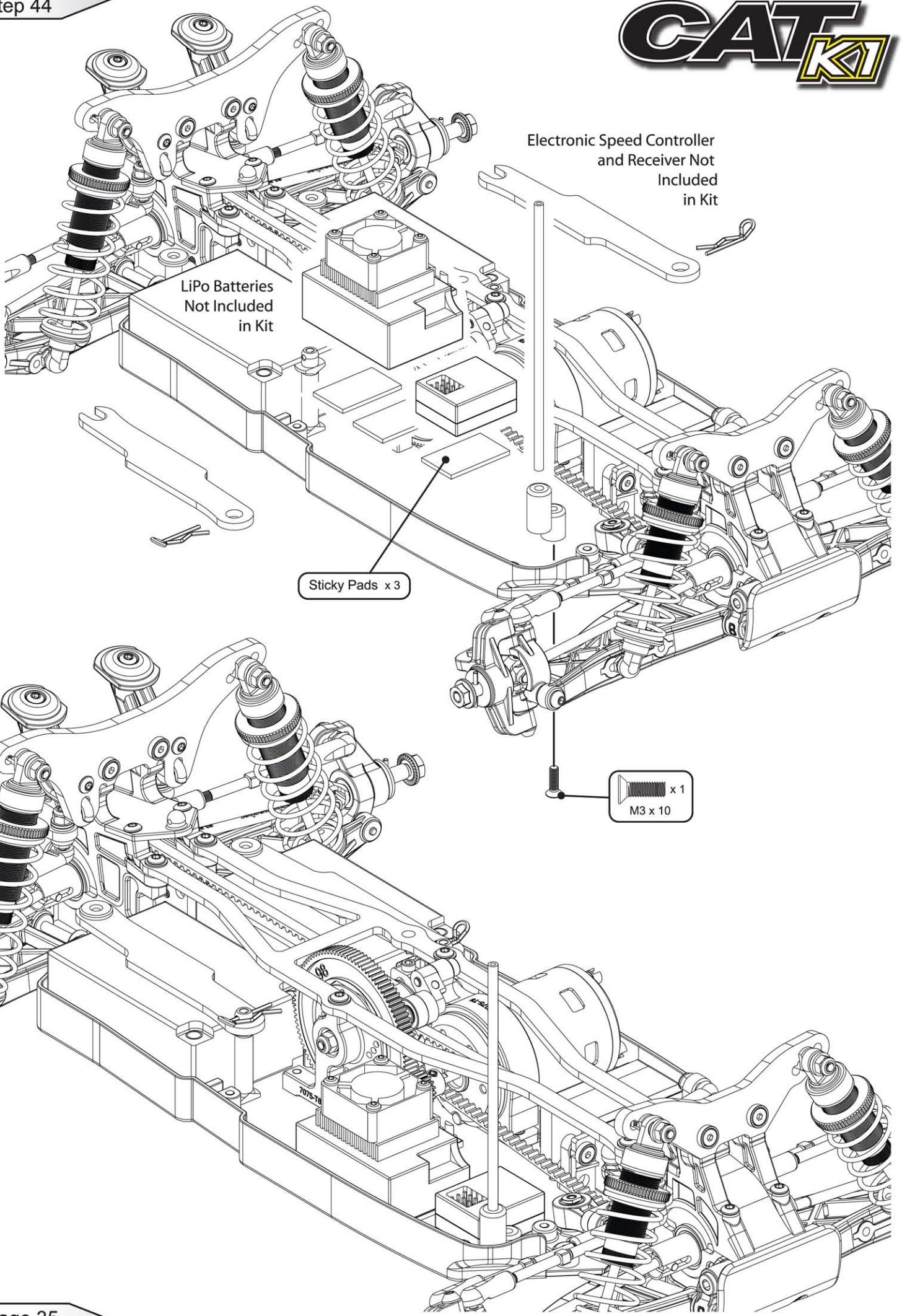
Step 43 C



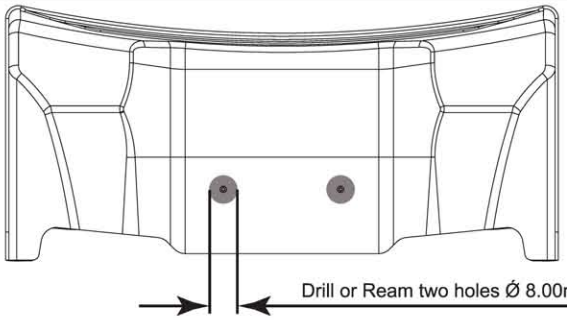






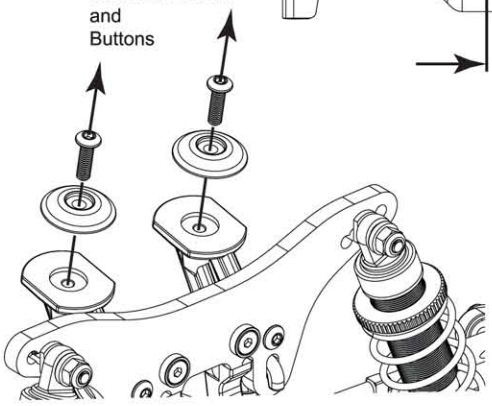

Electronic Speed Controller
and Receiver Not
Included
in Kit
LiPo Batteries
Not Included
in Kit
Sticky Pads x 3
x 1
M3 x 10

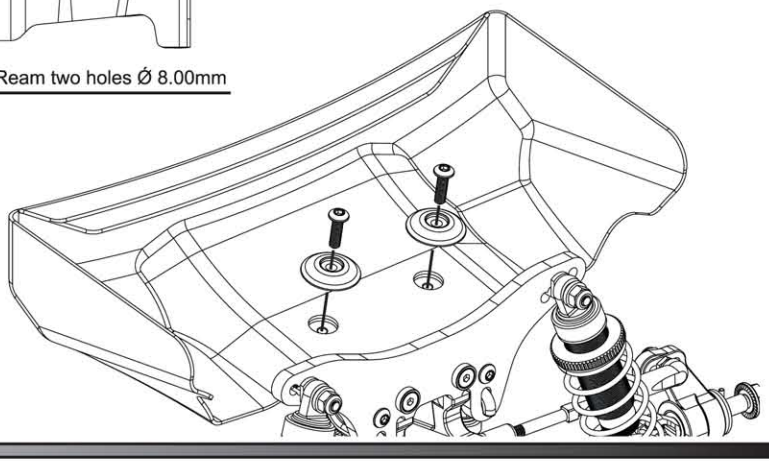
Step 45



Drill or Ream two holes Ø 8.00mm

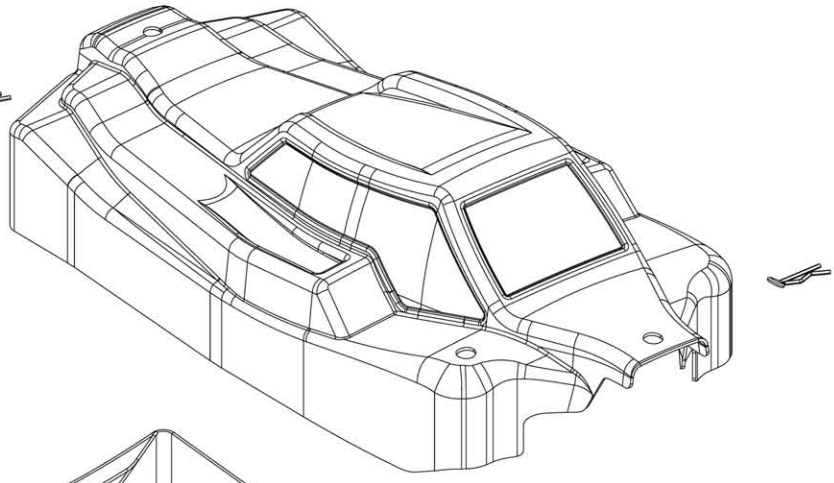
Remove Screws and Buttons

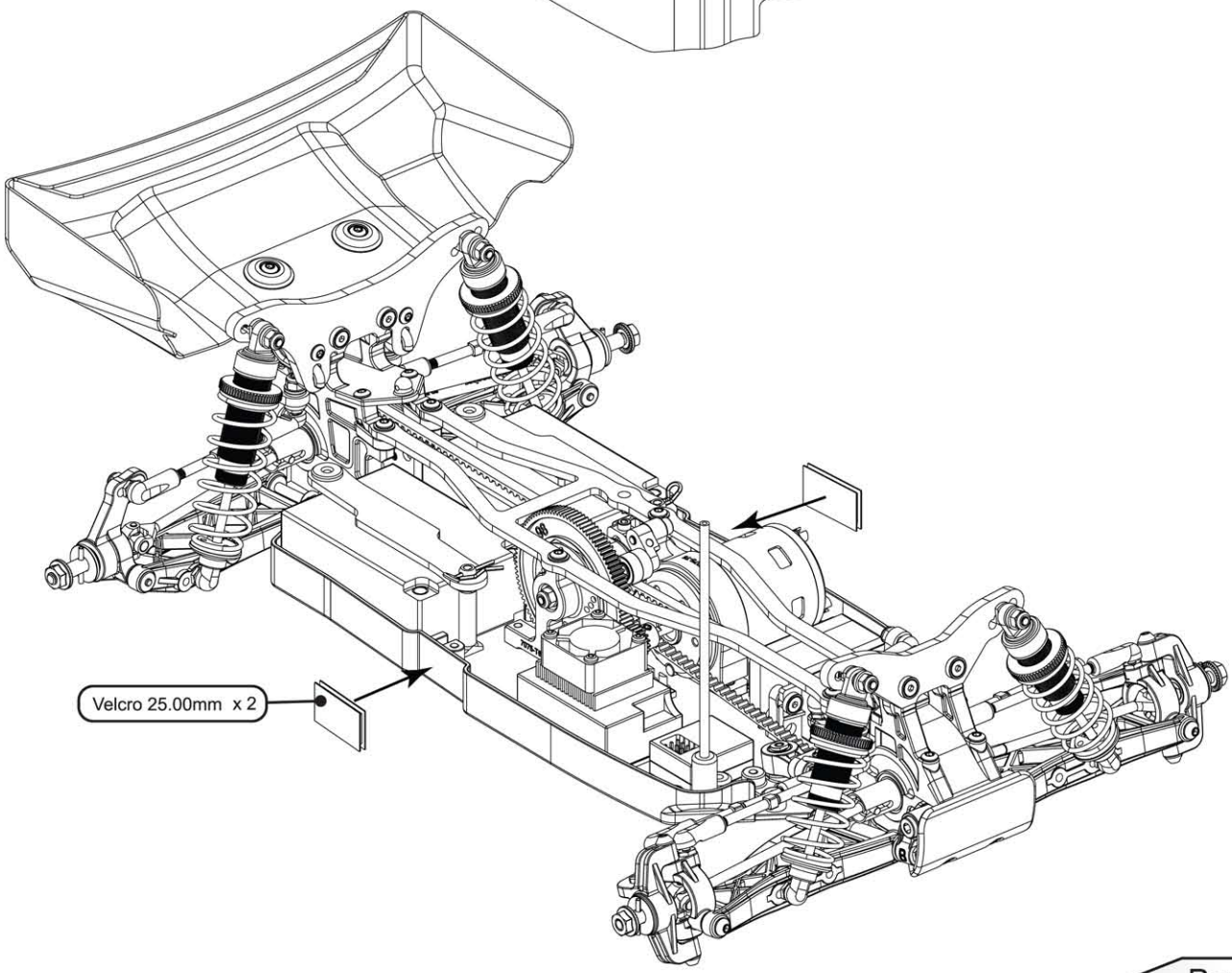




Step 46

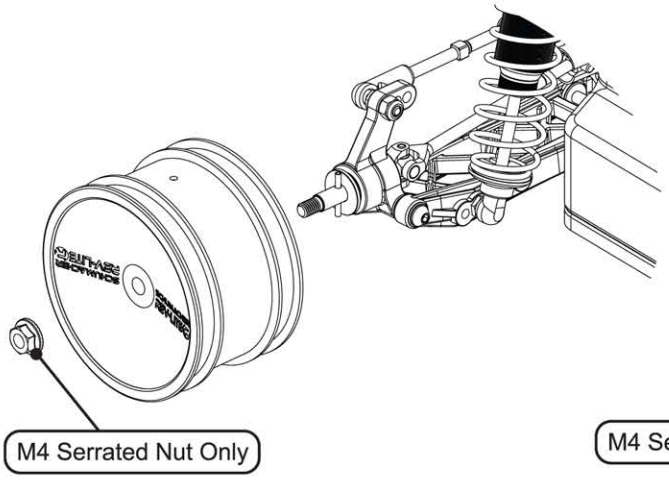
R'clip x 2

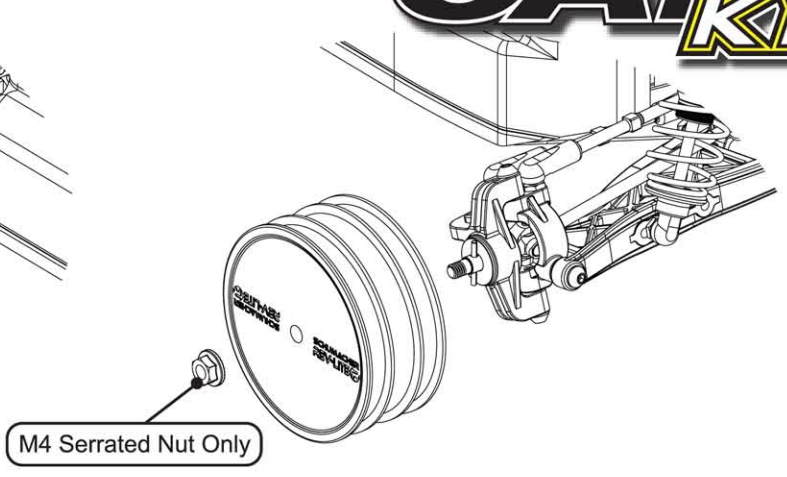




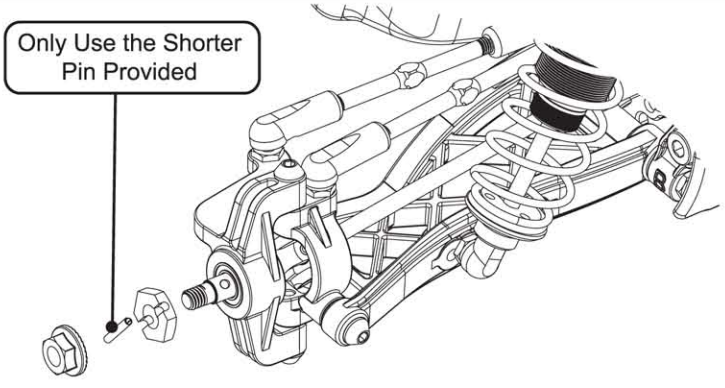
Velcro 25.00mm x 2

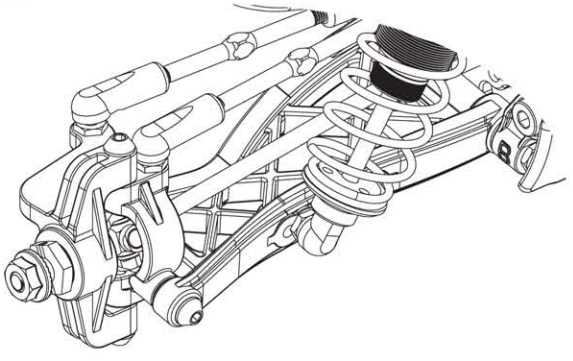
Wheel Fitting

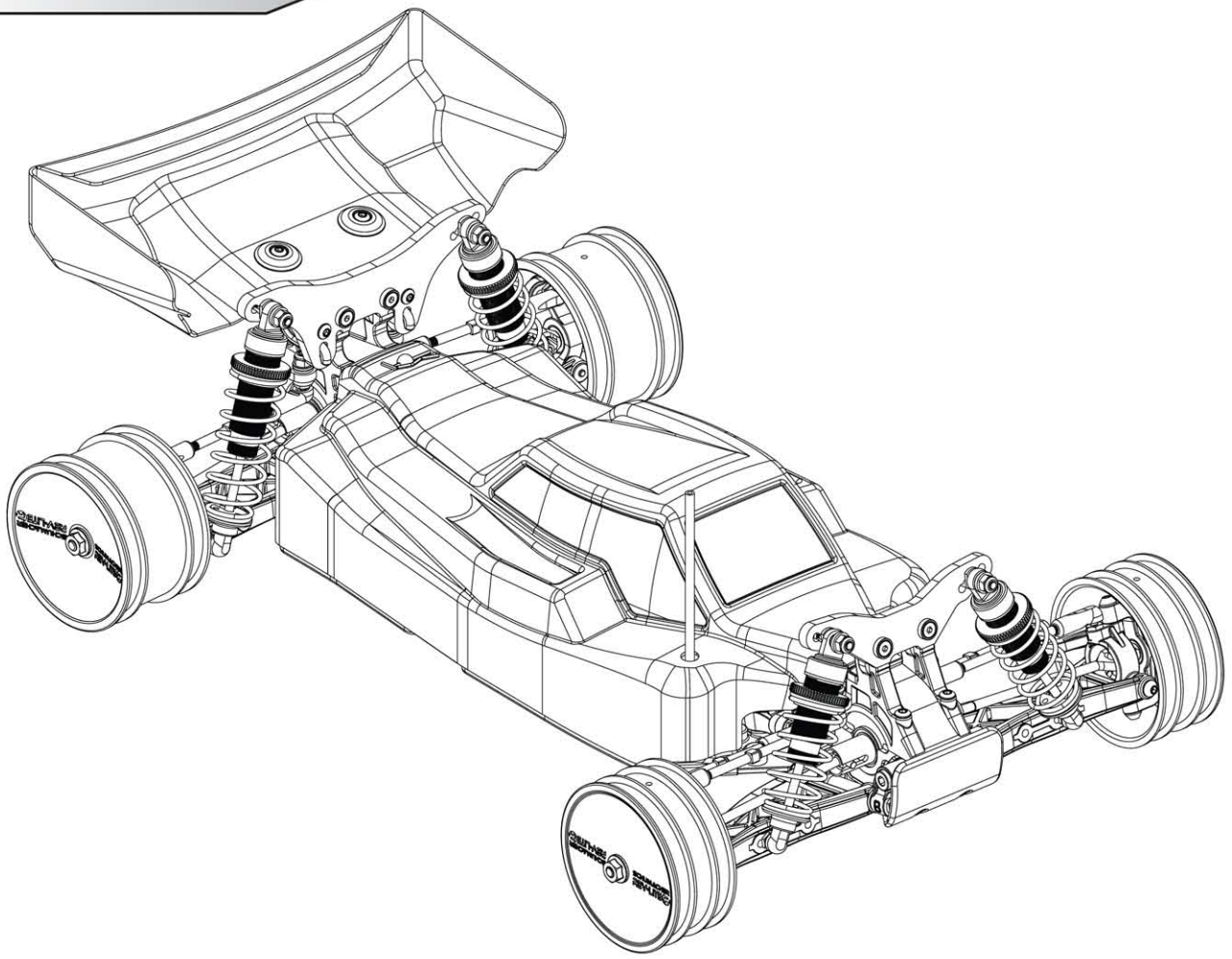




Optional Front Wheel Fixing for other Manufacturers Wheels







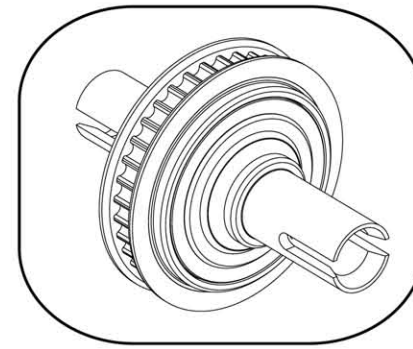
Gear Chart

Tooth Sum 109 Minimum and 122 Maximum

	14	15	16	17	18	19	20	21	22	23	24
98	12.60	11.76	11.03	10.38	9.80	9.28	8.82	8.40	8.02	7.67	7.35
95	12.21	11.40	10.69	10.06	9.50	9.00	8.55	8.14	7.77	7.43	7.13

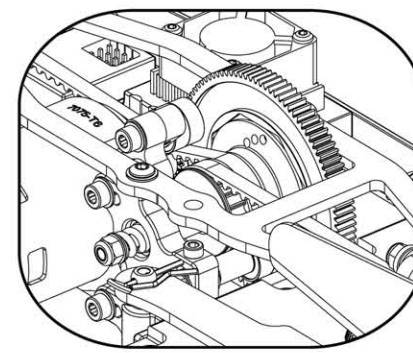
Differentials

For consistent performance it is vital that the differential action should be smooth and free. The diff should be adjusted using the recommended settings in the manual. 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 diff we recommend using a U1954 thrust race.



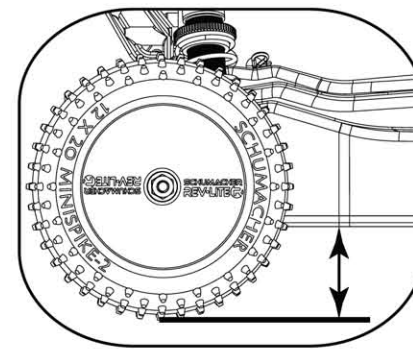
Slipper Clutch

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.



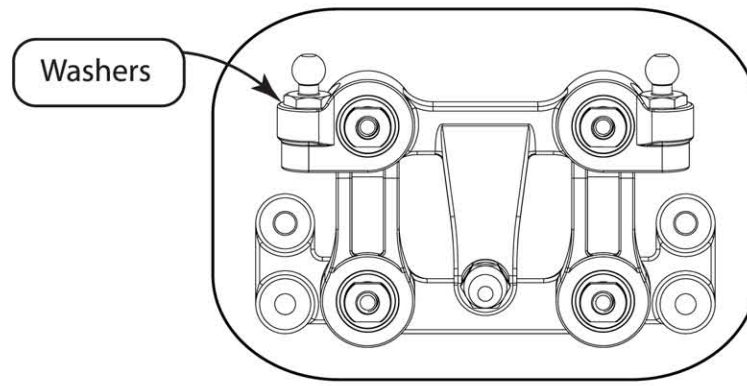
Ride Height

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 20 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.



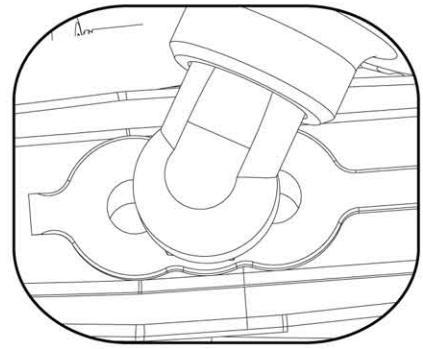
Ackerman Adjustment

The Ackerman can be adjusted by adding/removing washers from the ball studs mounted to the centre track rod. Moving the ball studs forward will increase steering on high speed corners at the expense of low speed steering. Moving the ball studs back will have the opposite effect.



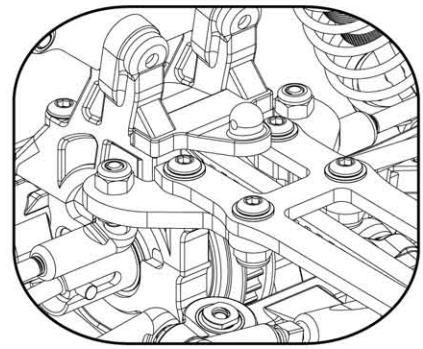
Front Wishbone Shock Mounting Hole

The middle hole in the wishbone is the standard setting for the lower shock absorber mounting. Moving the shock absorber to the outer hole increases the reaction of the steering as well as increasing the suspension stiffness, This position may cause a little too much initial turn in on corner approach. Using the inside hole will soften the suspension and also increase the total suspension travel, and will probably need spring and damping changes to make the best use of it. Anti roll bars are a good tuning aid when using different shock absorber positions on the wishbone.



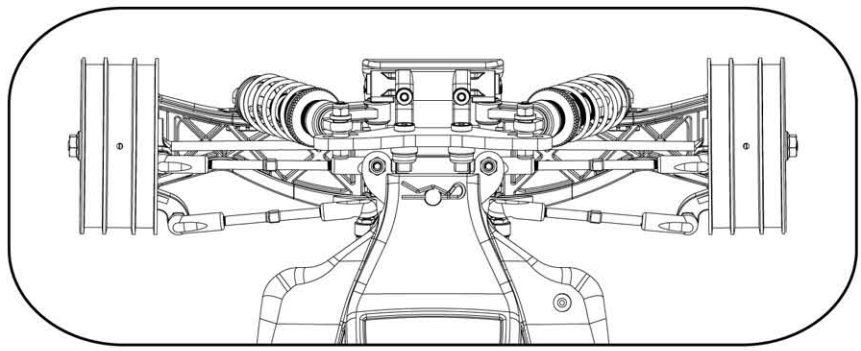
Front Camber Links

The kit front camber link po sition and length are the settings 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.



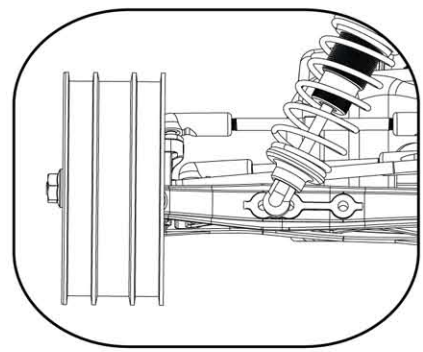
Front Toe in

Front toe in should be set to 0^{o} (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.



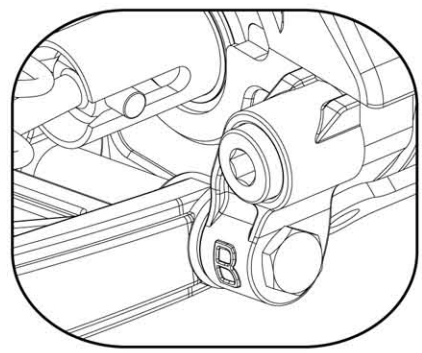
Front Camber

The usual team setting for static front camber is 1^{o} 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.



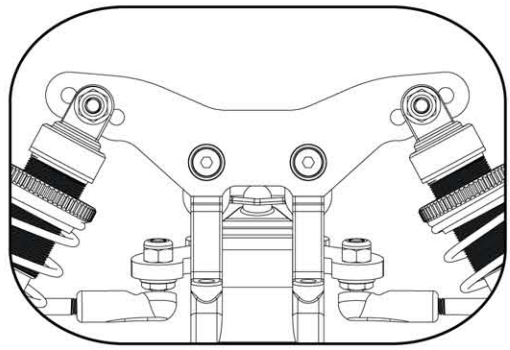
Front Rake

The std rake angle (kick up) is 10^{o} on the Cat and needs adding to the castor block angle to get the total castor angle. The standard car uses a 10^{o} castor block making the standard car 20^{o} in total; this can be increased to 22.5^{o} by using the optional 12.5^{o} castor block. Or 17.5^{o} by using the optional 7.5^{o} 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. There is also the 7.5^{o} Rake blocks which again will reduce the total castor angles by 2.5^{o}.



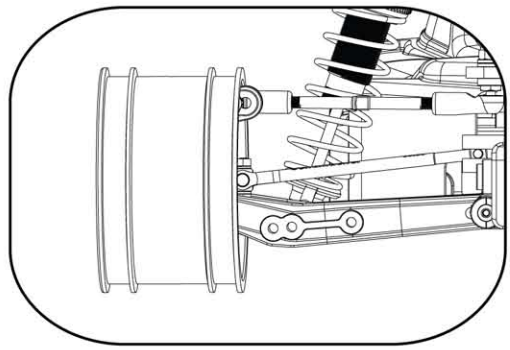
Front Shock Mount

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 will 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. You may need to alter the oil and spring combination to get the suspension correct again.



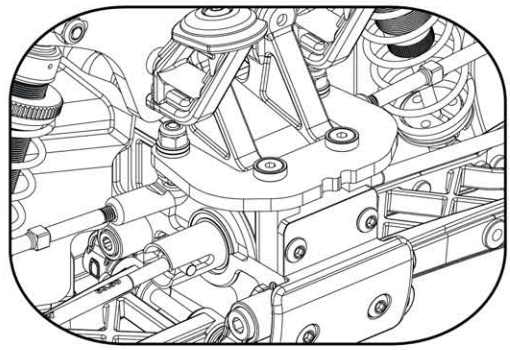
Rear Camber

The usual team setting for static rear camber is 1° 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)



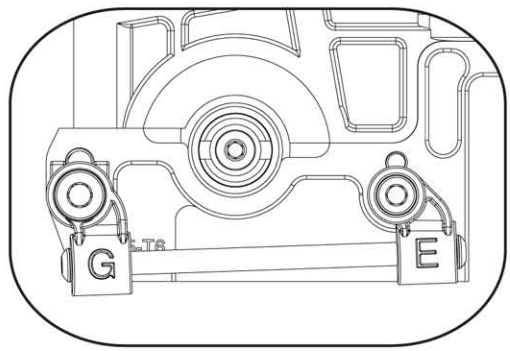
Rear Camber Link

The kit build rear camber link setting is the best compromise for most tracks. This is the middle link option and 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 under steer 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.



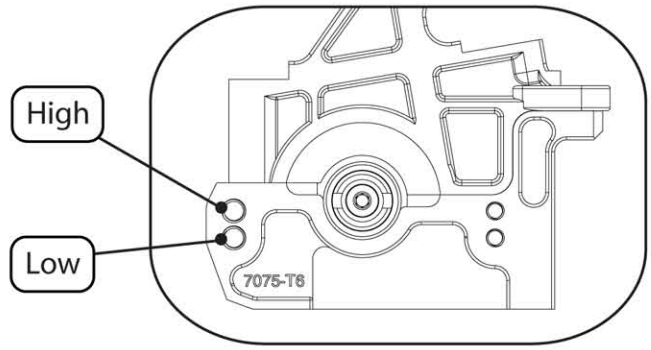
Rear Anti Squat

The standard anti squat is set at 2°. The Team have found that this works best on most tracks, and With optional parts this can be increased or decreased.
Generally less anti squat allows the suspension to work better over the large bumps but usually gives less power on traction. Adding more antisquat 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 more antisquat seems to make the car handle better over small ripples but not so good on the tracks with large bumps.



Rear Pin Hieght

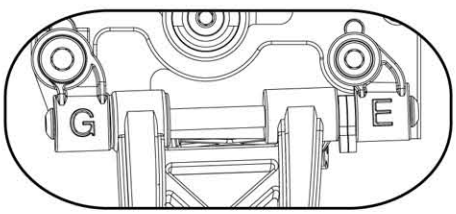
The Low position is Factory Standard and is suitable for most tracks and conditions.
The High position can give more stability on low grip or very bumpy tracks.



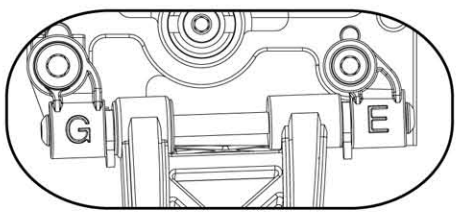
Wheel Base Adjustment

The Cat has 3 wheelbase options at the rear, short, med and long, The adjustment is provided by re positioning the quick clips on the wishbone pin. Moving the rear wishbones forward will give more traction at the expense of stability over rough sections of the track. and moving the wishbone to the middle or rear position usually improves stability over the rough sections, running the car in long wheelbase form also free's up the car on sweeping sections of the track.

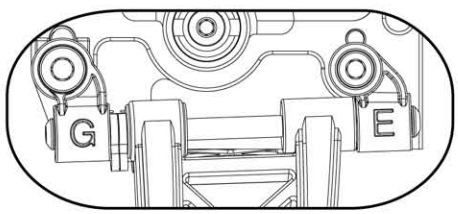
LONG



MED

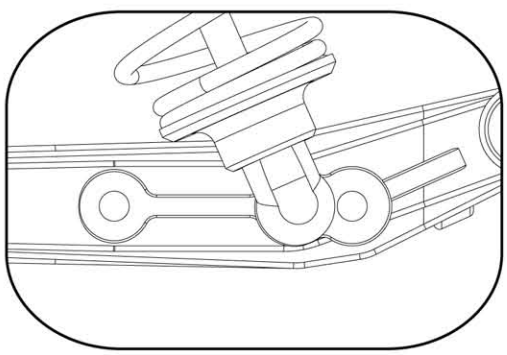


SHORT



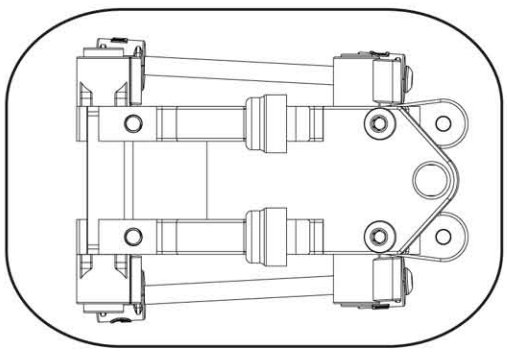
Rear Wishbone Shock Mounting Hole

The inner 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.



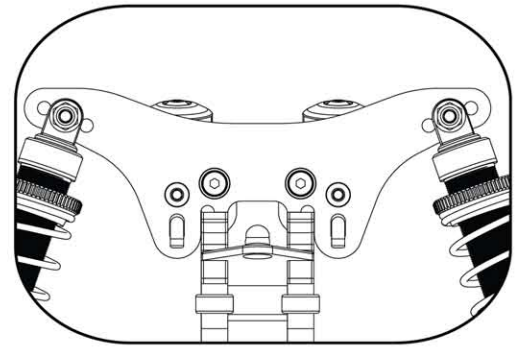
Rear Toe-in

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. You can alter the toe in with option blocks. 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.



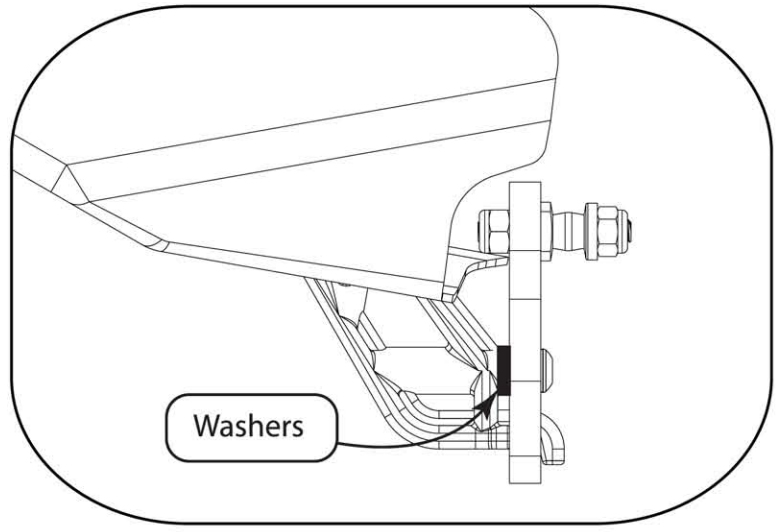
Rear Shock Mount

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.



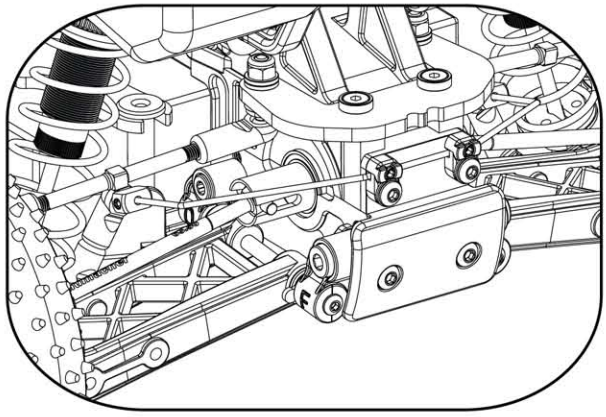
Rear Wing Angle

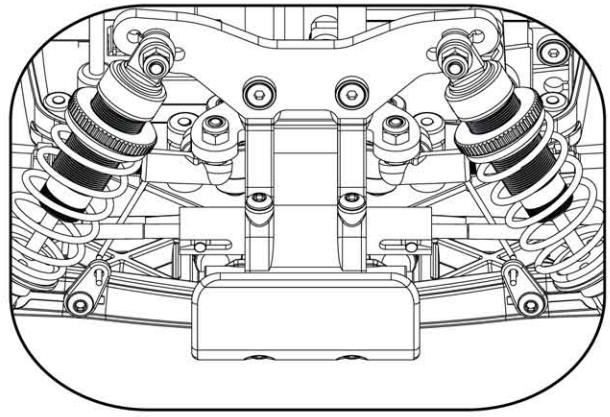
Removing the washers at the front of the wing mount will give the wing more angle and increase rear downforce, adding washers will level the wing out giving less downforce.



Roll Bars

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.

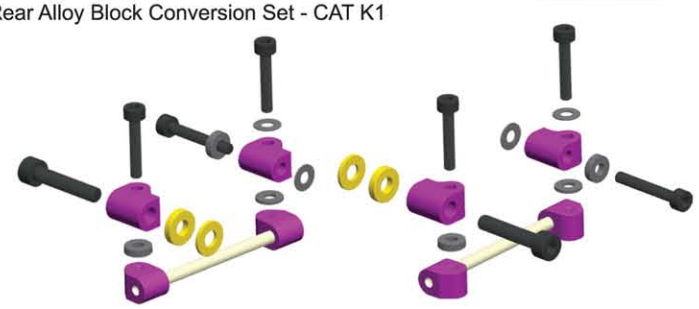




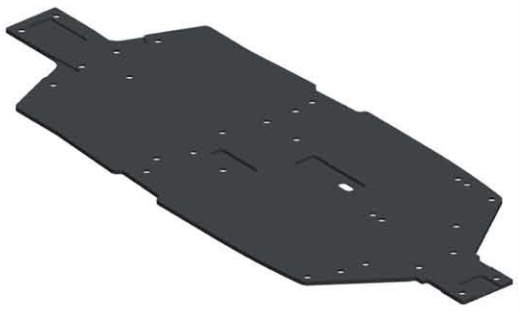
Pivot Block M4; Front 7.5 degree - Cat SX
U3603
Pivot Block M4; Front 10 degree - Cat SX
U3556



U4160
Rear Alloy Block Conversion Set - CAT K1



U4159 - Option Chassis - CAT K1



CNC Alloy Shock Spring Seat (pr)
U3611



U4169 CF Link Mount; Rear 33.50mm
U4138 CF Link Mount; Rear (Kit) 38.00mm
U4170 CF Link Mount; Rear 42.50mm



Wishbone; Front Stiff - Cat SX2 pr
U3597



Wishbone; Rear Stiff - Cat K1 pr
U4166



U4167 CF Link Mount; Front 33.50mm
U4139 CF Link Mount; Front (Kit) 38.0mm
U4168 CF Link Mount; Front 42.50mm



Alloy Yoke; 12.5deg - Cat SX (pr)
U3559



Alloy Yoke; 7.5deg - Cat SX (pr)
U3404



Purple Alloy Hubs 1° (Pair)
U3605



U3770 Big Bore Shock; 3 Hole Rounded Pistons pr
U3771 Big Bore Shock; 5 Hole Rounded Pistons pr

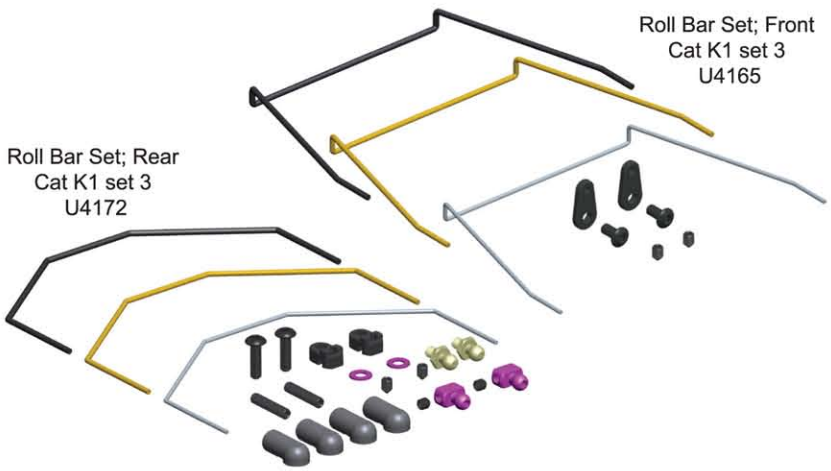


U3670 Big Bore Shock; 2 Hole Pistons pr
U3671 Big Bore Shock; 4 Hole Pistons pr
U3672 Big Bore Shock; 6 Hole Pistons pr



Roll Bar Set; Front
Cat K1 set 3
U4165

Roll Bar Set; Rear
Cat K1 set 3
U4172



U1573 - Titanium Turnbuckle (pr) - 53mm
U1574 - Titanium Turnbuckle (pr) - 60mm
U2053 - Titanium Turnbuckle (pr) - 24mm



U4163 Gear; CNC 95T Spur - Slipper
U4185 Gear; CNC 98T Spur (Kit) - Slipper



U4158 - M4 x12 Alloy Cap Hd Purple



U4161 - Radius Arms; CNC Alloy - CAT K1



U4162
Centre Track Rod; CNC Alloy - CAT K1



Purple Alloy Options

U3304
Purple Pivot Block C; Front - CAT SX pr

U3313
Wishbone Tube Purple - CAT SX pr

U3323
Race Shock Seal Hsg Purple; Off Road pr

U3324
Race Shock Top Cap Purple; Off Road pr

U3334
Cone; Rear Wheels Purple; Off Road pr

U4164
Alloy Mount; Front Upper Trans - Cat K1 pr



U4174 - Gear Diff - CAT K1



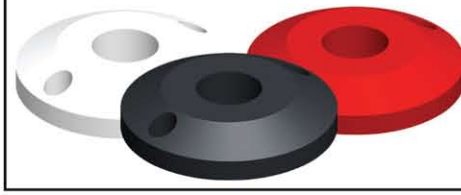
U3319
Race Shock Piston; CNC 2 Hole Off Road
U3320
Race Shock Piston; CNC 3 Hole Off Road



U4171
Alloy Mount; Rr Upper - Cat K1 pr



U4125
Small Bore Taper Piston 1.2mm - White pr
U4126
Small Bore Taper Piston 1.3mm (Kit) - Black pr
U4127
Small Bore Taper Piston 1.4mm - Red pr



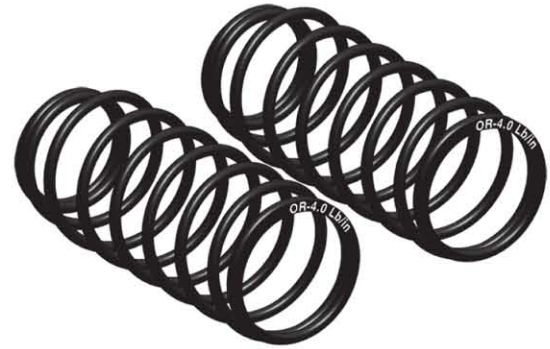
U4130 - Vented Shock Caps - Small Bore - (Pr)



U3660 - Big Bore Shocks; Med - Assembled
U3661 - Big Bore Shocks; Long - Assembled



U3673 - Big Bore Spring Tuning Set; Med 7prs
U3674 - Big Bore Spring Tuning Set; Long 6prs
CR177 - CORE RC Big Bore Spring Tuning Set; Med 5prs
CR178 - CORE RC Big Bore Spring Tuning Set; Long 5prs



2.2"
Rear Full Spike
Yellow - U6596

2"
Rear Full Spike
Soft - T650



2.2" 4wd
Front Full Spike
Yellow - U6595

2"
Front Full Spike
Soft - T652



2.2"
Rear Mini Spike 2
Green - U6516
Blue - U6518
Yellow - U6558
Silver - U6763



2.2" 4wd
Front Mini Spike 2
Green - U6515
Blue - U6517
Yellow - U6557
Silver - U6762



Rear Mini Pin 2.2"
Blue - U6602
Yellow - U6608
Silver - U6778



2.2" 4wd
Front Mini Pin
Blue - U6601
Yellow - U6607
Silver - U6777



Rear Block 2"
Blue - T692



4wd Front Block 2"
Blue - T693



Rear Multi Bow
CR143



Front Multi Bow
CR144



Rear Multi Block
CR145

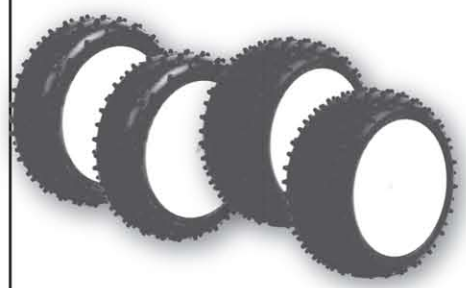


Front Multi Block
CR146

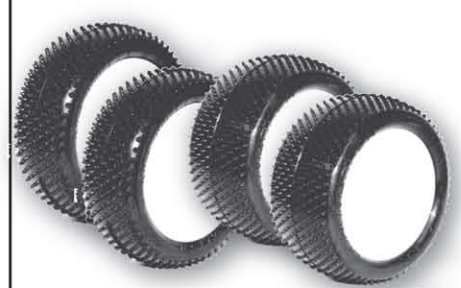


Pre-Glued

Mini Spike 2 on White Flexlite Wheels.
Yellow Rear Tyres - U6740
Yellow Front Tyres - U6739



Mini Pin on White Flexlite Wheels.
Yellow Rear Tyres - U6742
Yellow Front Tyres - U6741



Revlite Wheels.
Rear Yellow - U3406
Front Yellow - U3405



Flexlite Wheels.
Rear White - U4101
Front White - U4102
Rear Black - U4132
Front Black - U4131





Red
Moulded Inserts
Rear - CR141
Front - CR142

Soft Insert 2.2"
Ultra Wide Rear - U6668



Medium Insert 2.2"
4wd Front - U6733
2wd Slim Front - U6738
Rear - U6734
Tubby Front - U6746
Tubby Rear - U6747



Hard Insert 2.2"
4wd Front - U6652
2wd Slim Front - U6667
Rear - U6653
Ultra Wide Rear - U6669



GUIDE TO TYRE COMPOUNDS

Blue -- A general purpose, hard wearing compound.

Green -- Slightly softer than Blue, but works right through from wet to dry.

Yellow -- Softer. The Racers Choice! The Benchmark Tyre Compound! Indoor and Out.

Silver -- Ultimate dirt/dust tyre. Very soft.

Soft -- The CAT original. Winner of the Worlds!

B30 -- High Grip Tarmac Tyre.