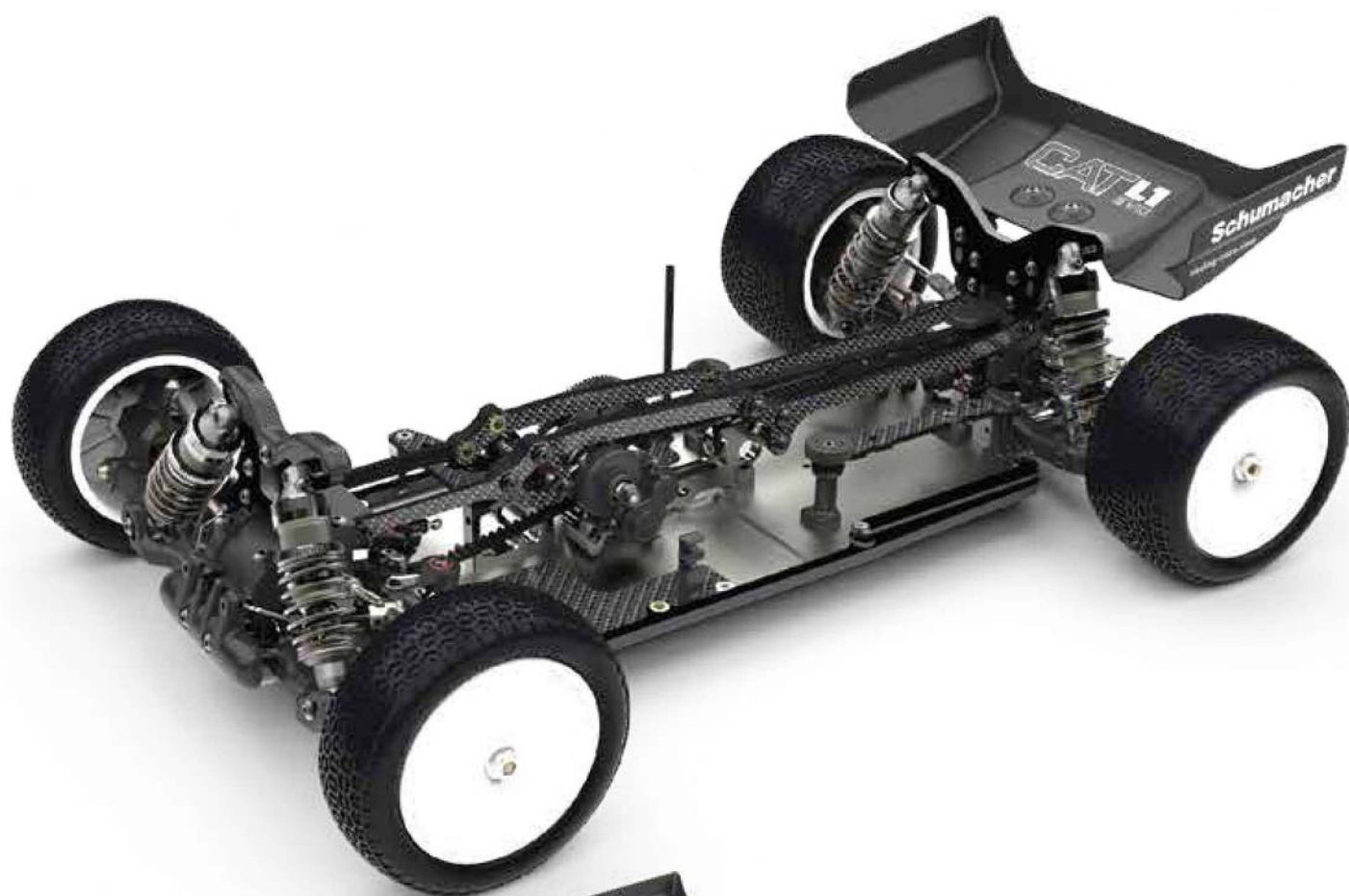


# CAT L1 EVO

## Instruction Manual



**Schumacher**  
racing-cars.com

## ADDITIONAL ITEMS REQUIRED



E.S.C



Servo



Motor



LONG BOSS  
Pinion  
U7517 to U7527



2S Shorty  
Li-Po Battery

SK-100149  
SKY RC e680 AC/DC 80W Charger



CORE RC Paint  
CR600 to CR631  
CR666 to CR672



CR522 CORE RC  
Pro Tyre Glue + 2 Nozzles



Tyres and Inserts



Soldering Iron  
CR266 40w  
CR275 80w

U3107 - Solder

AM701011 - Low Profile 4mm Connector 24K - pk2  
AM701012 - Low Profile 5mm Connector 24K - pk2



CR115  
CORE RC Silicone Wire 12AWG Red/Black/Blue 50cm



CR233  
Piston Drilling Kit  
1.1-1.8mm (8 bits)

AM190003 Reamer With End Cap For Lexan Body

U4229 Steel Spanner - 5.5mm/3.9mm

CR044 Curved Body Scissors



AM150155 Nut Driver 5.5 (M3)  
AM150170 Nut Driver 7.0 (M4)



AM110115 Allen Wrench 1.5  
AM110120 Allen Wrench 2.0  
AM110125 Allen Wrench 2.5  
AM110130 Allen Wrench 3.0

# CAT L1 EVO

Schumacher Racing stocks and distributes the following manufacturers products and full product listings are available on our website at [www.racing-cars.com](http://www.racing-cars.com)

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



### IMPORTANT SAFETY NOTES

- We strongly recommend that anyone driving RC cars, or organising events, should obtain third party liability insurance. In the UK this can be done by joining the BRCA. [www.brca.org](http://www.brca.org)
- This product is not suitable for children under the age of 14, without the direct supervision of a responsible 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 items used in the construction.
- In line with our policy of continuous development the exact details of the kit may vary.
- DO NOT use this car on public roads or in places where it can interfere with traffic, people or animals.
- Always check the operation of the radio with the wheels off the ground, before using the car.
- Make sure the radio and car batteries are fully charged before use.
- Disconnect and remove the battery from the car when not in use.
- Always store and charge LiPo batteries in a fireproof container.
- DO NOT put fingers or any objects inside rotating or moving parts as this may cause injury.
- Make sure the charger is correctly set for the type of battery you are using. Incorrect charging may cause a fire.
- Insulate all exposed electrical wiring. Exposed or damaged wires can cause short circuits and fire.
- The motor and speed controller can become hot during use. DO NOT touch them immediately after using your car as this may cause injury.



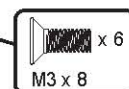
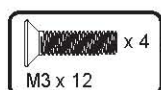
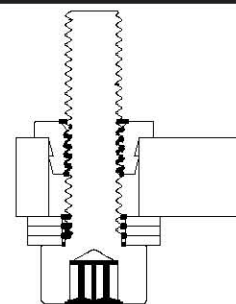
## IMPORTANT

Peel off the protective film from ALL carbon fibre parts before assembly.

Assemble the LiPo locators to best suit the length of your Shorty LiPo battery.

Use the M3x12 cap head screw and washers to fit the inserts.

Tighten the screw until the M3 thread insert is pulled into the carbon fibre part as shown.



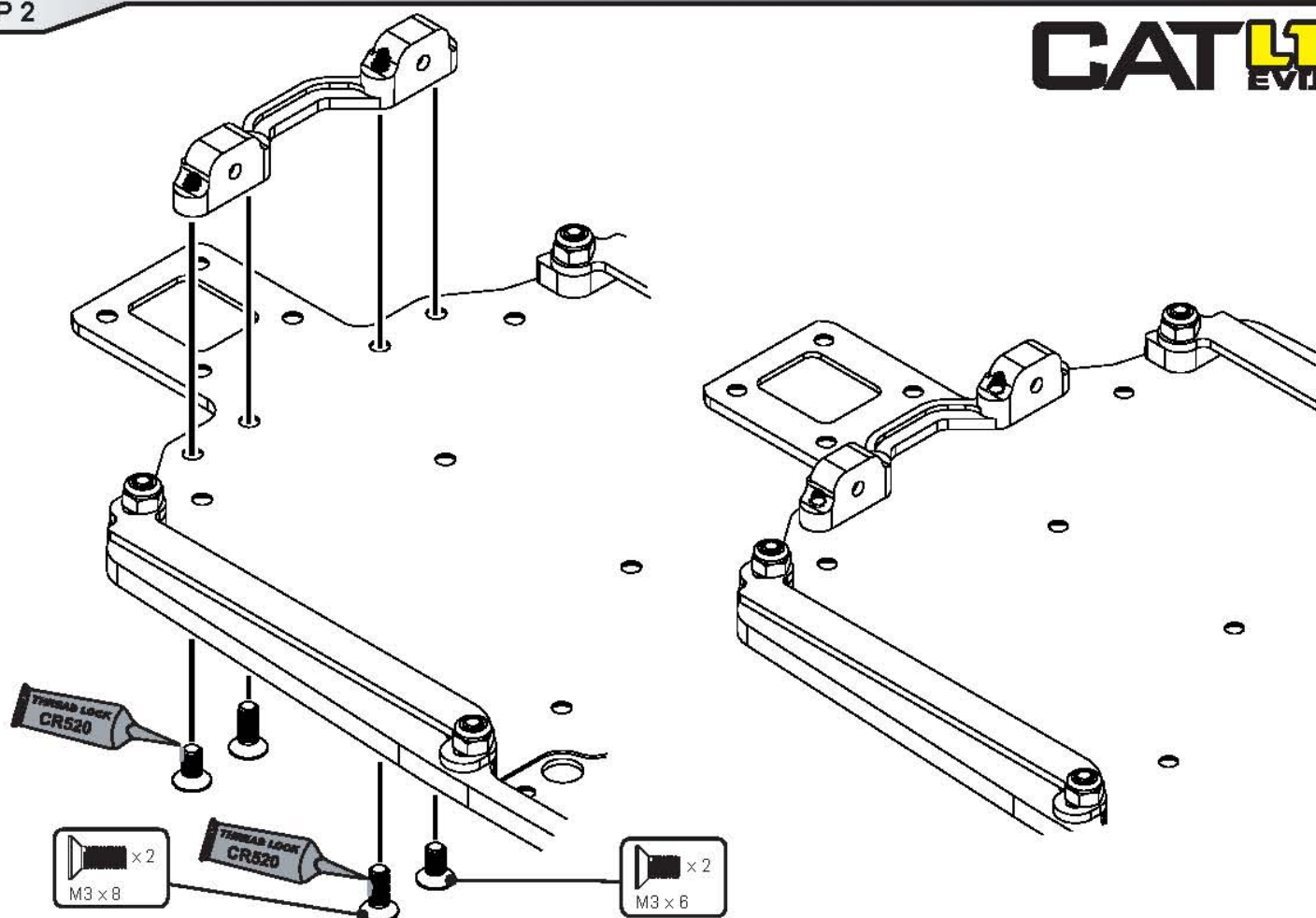
LiPo locator positions  
(Set both locators)

97mm Long LiPo

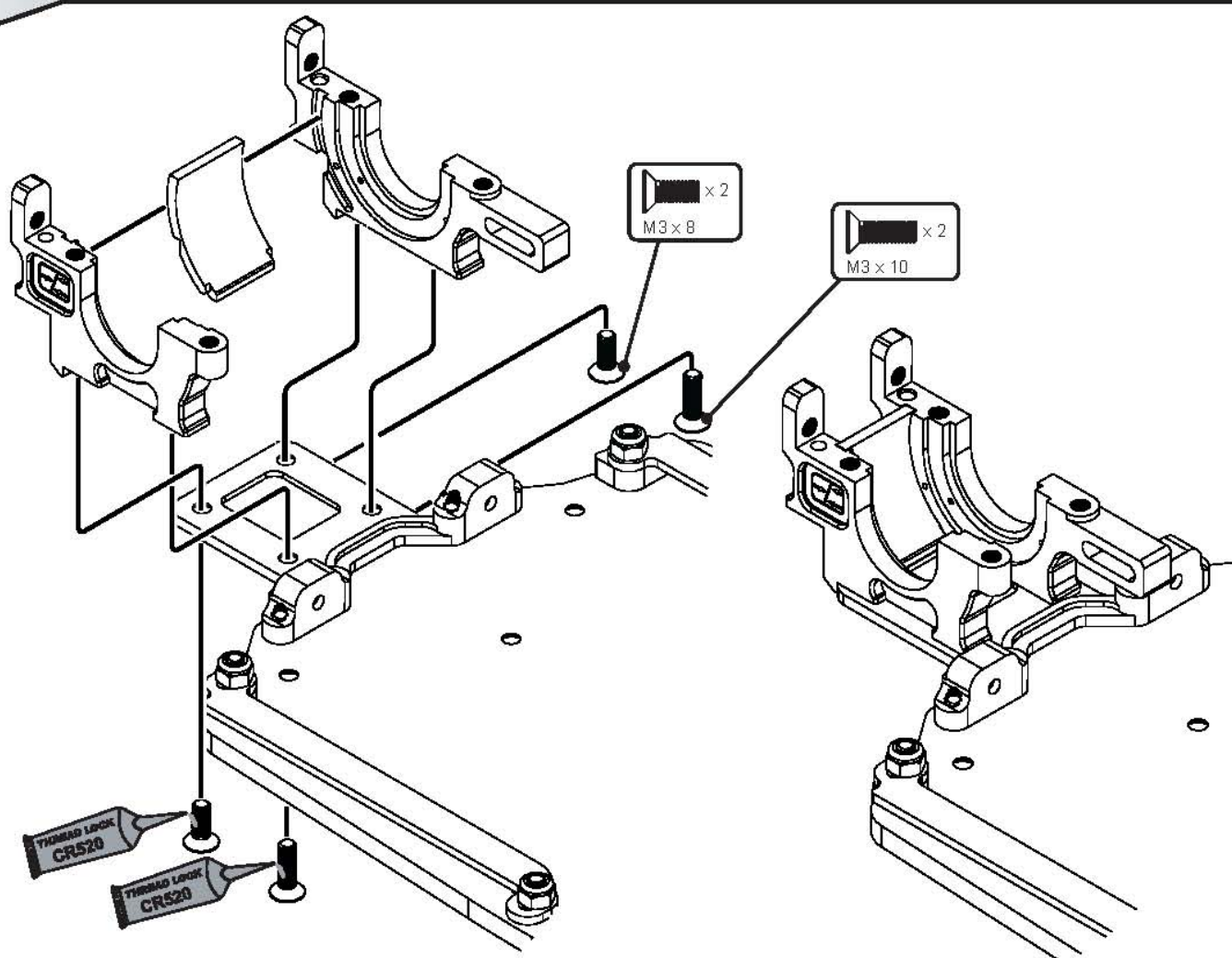
95mm Long LiPo

93mm Long LiPo

91mm Long LiPo



### STEP 3

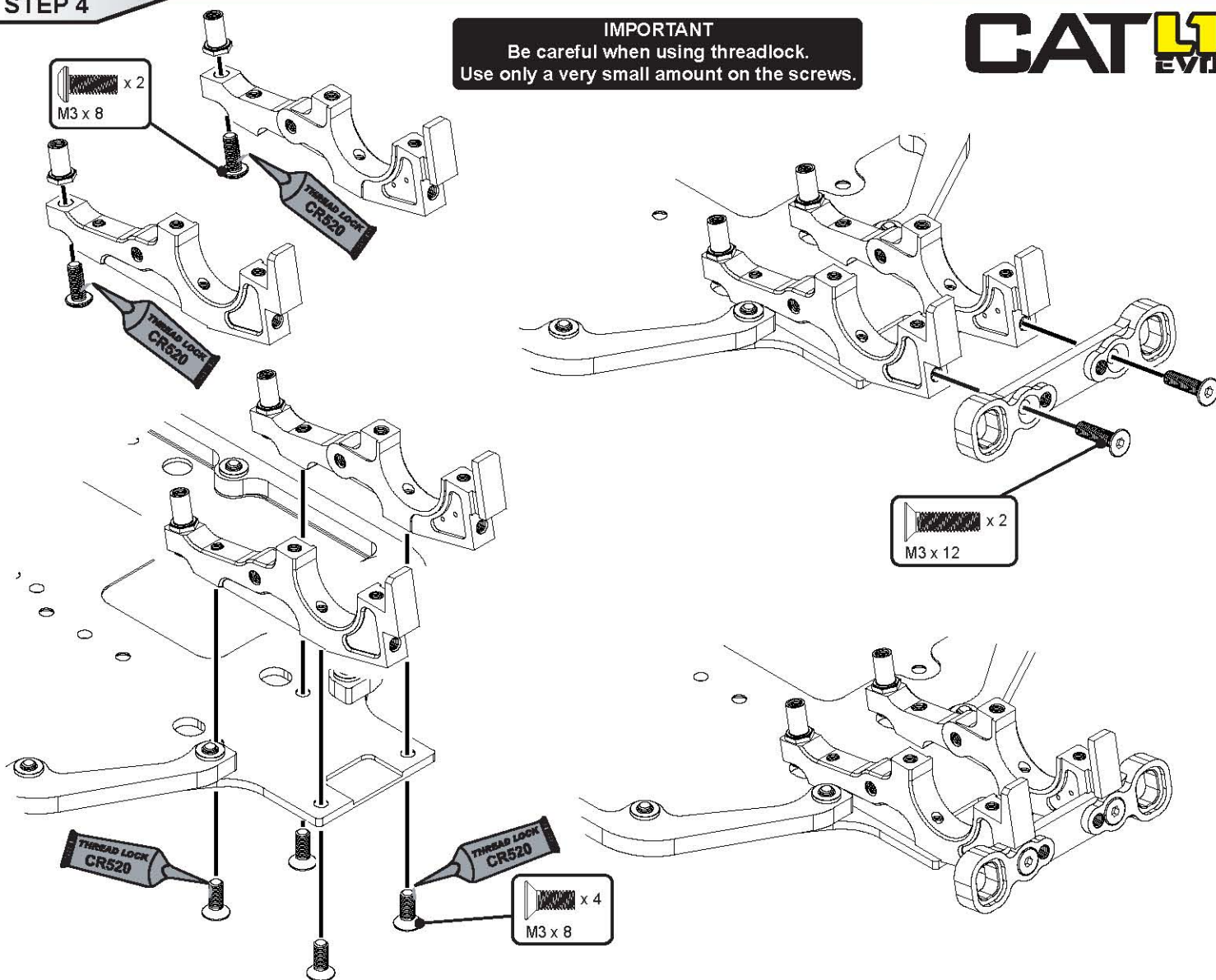




## STEP 4

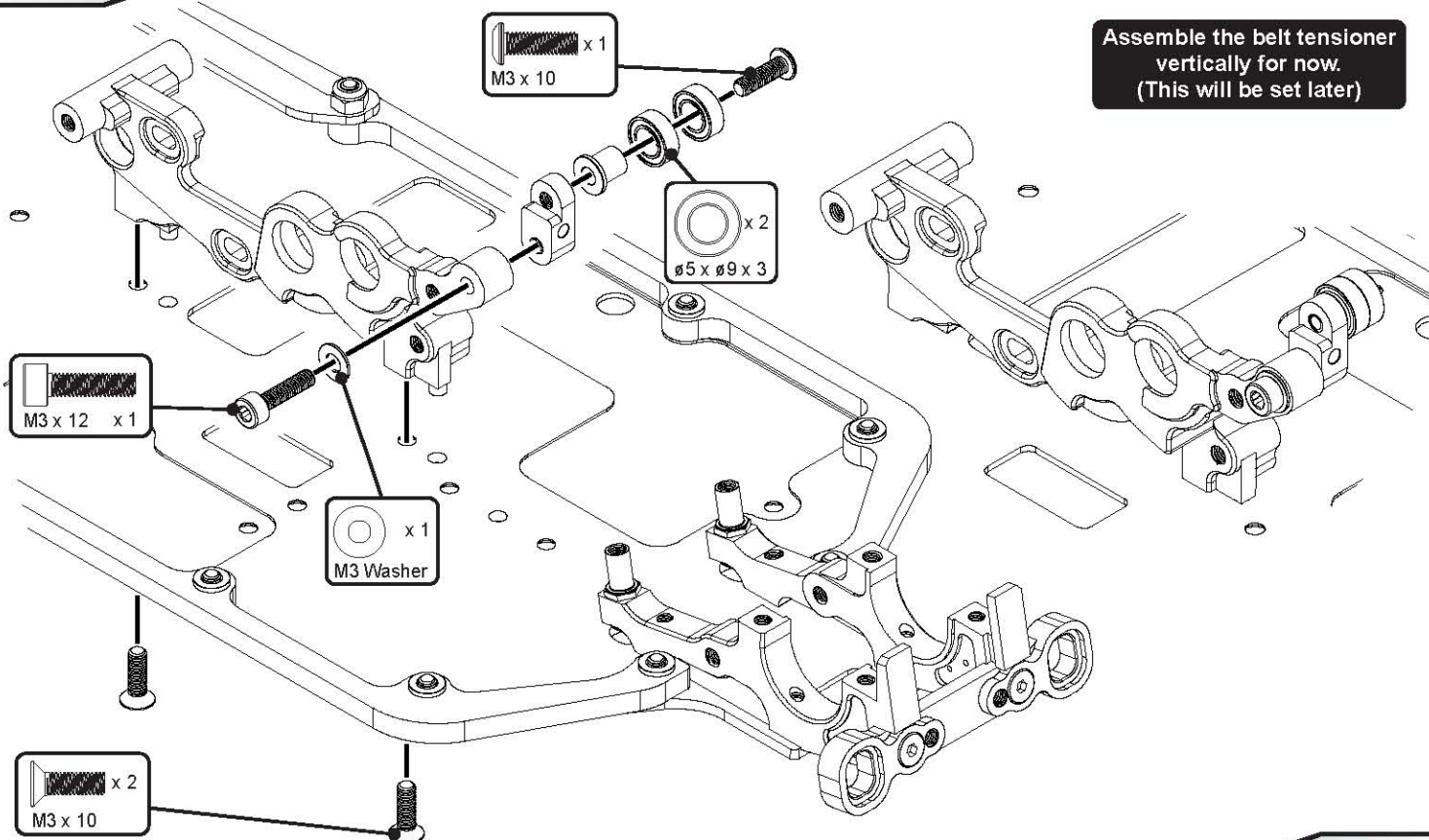
**IMPORTANT**  
Be careful when using threadlock.  
Use only a very small amount on the screws.

**CAT** **L1**  
EVI



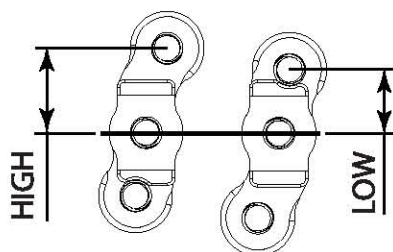
## STEP 5

Assemble the belt tensioner  
vertically for now.  
(This will be set later)



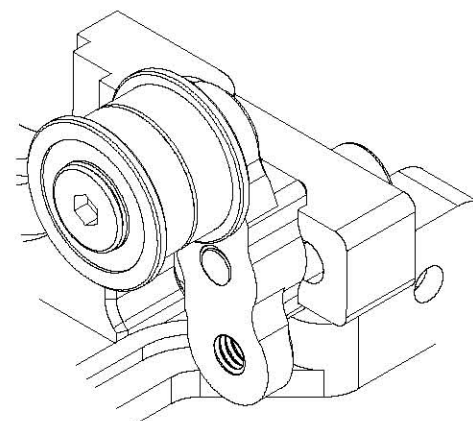
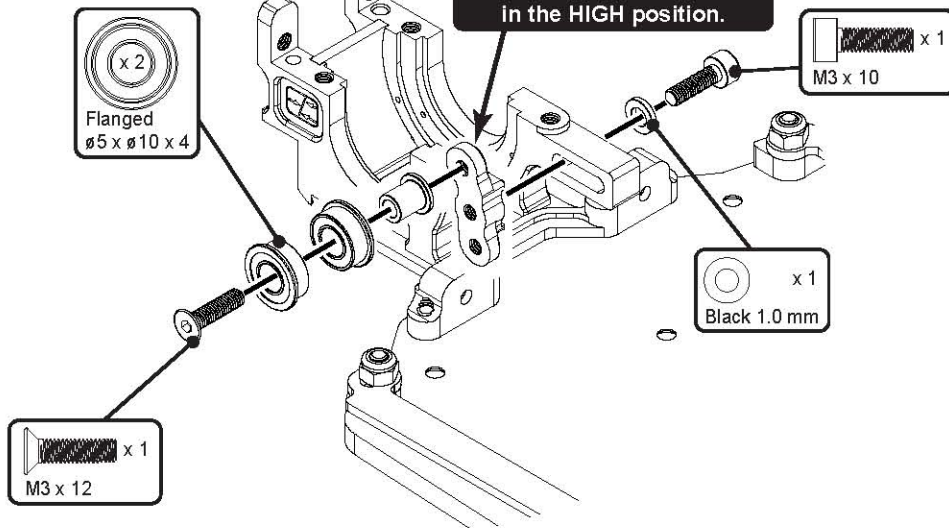
## STEP 6

The belt tensioner has two bearing heights. High bearing is used when the diff is set high. Low bearing is for when the diff is set low. Mid diff height may use either high or low depending on belt tension.

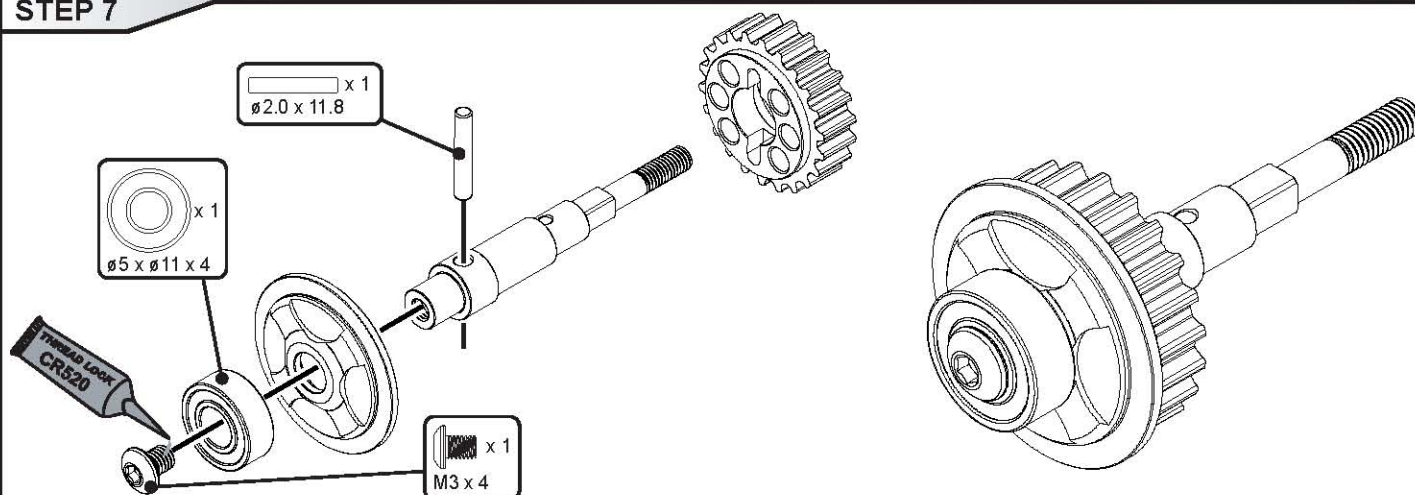


Assemble the belt tensioner in the HIGH position.

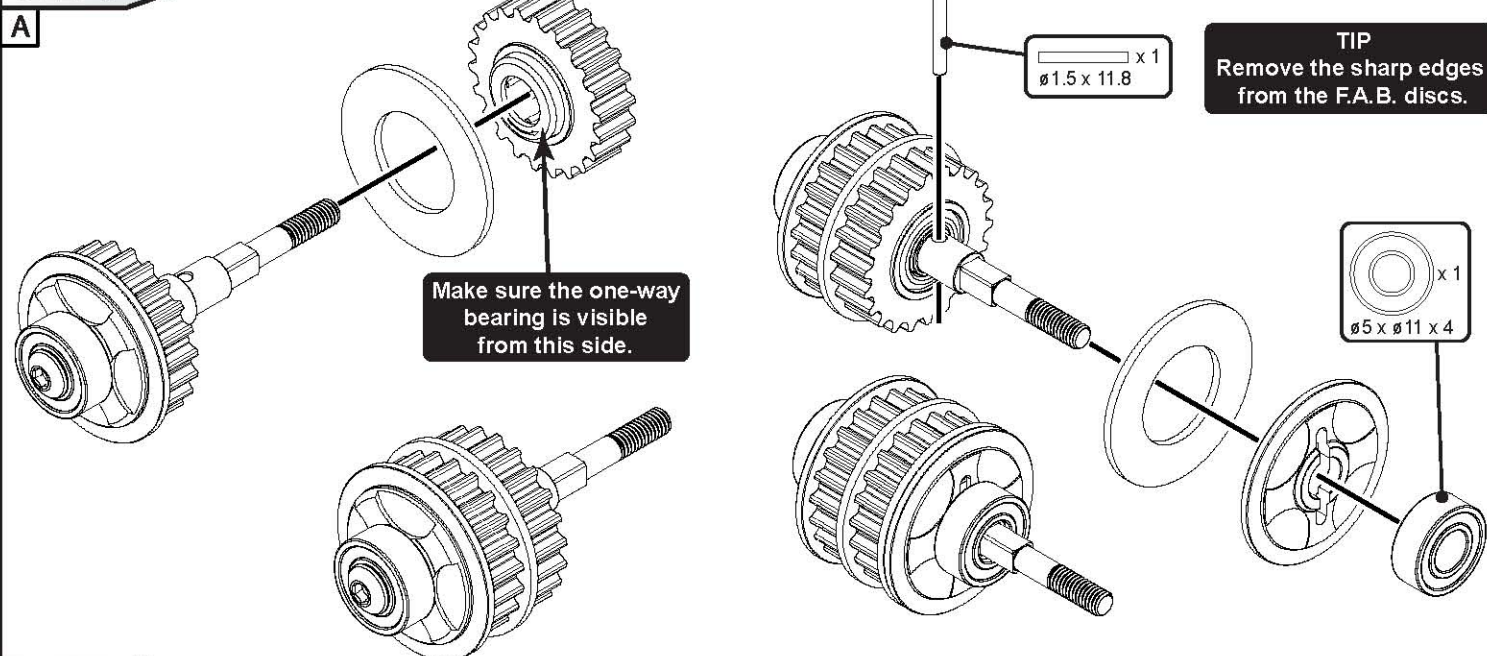
Assemble the belt tensioner fully forward. (This will be set later)



## STEP 7



## STEP 8

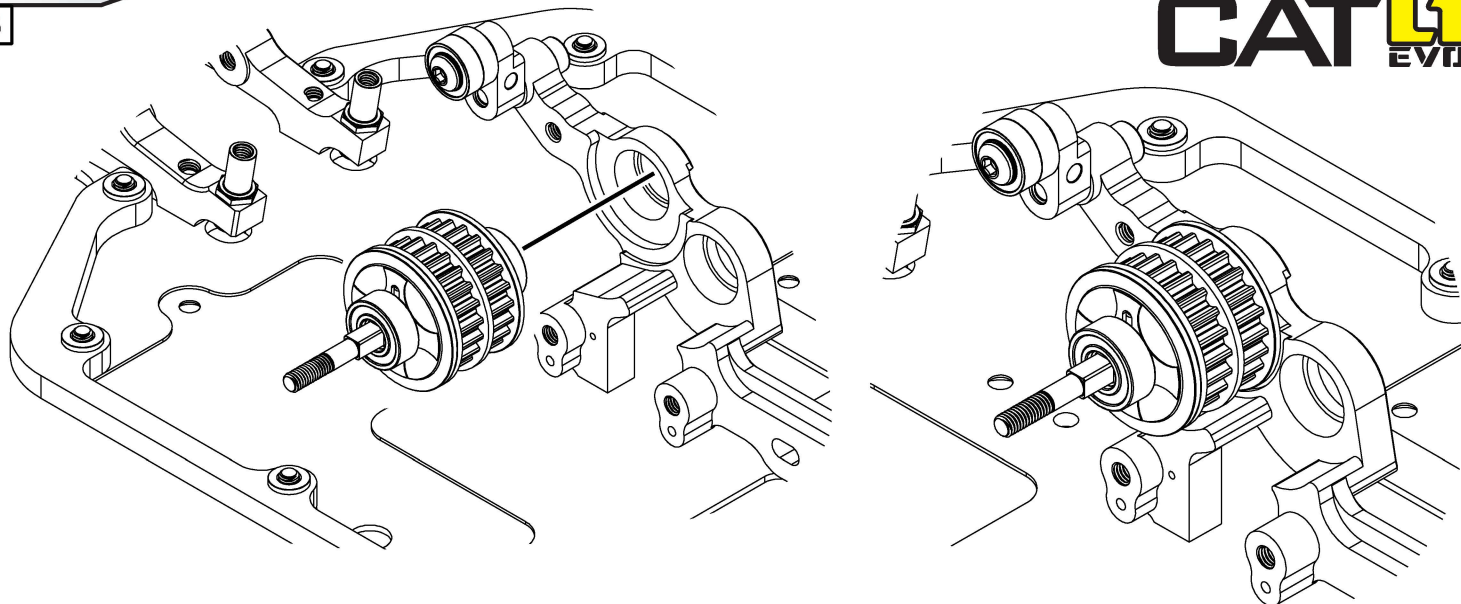




# STEP 8

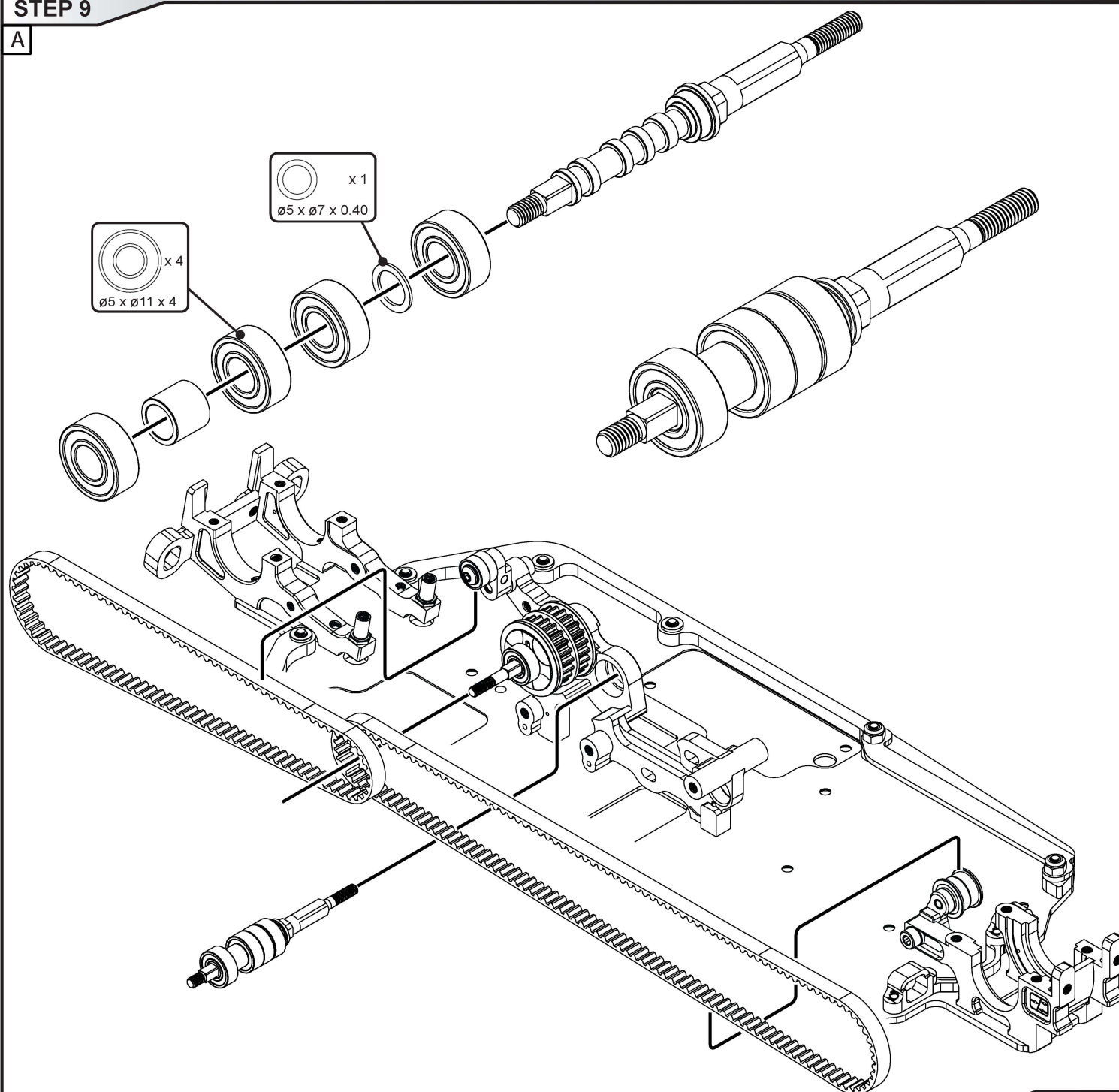
B

CAT<sup>®</sup>  
EVO



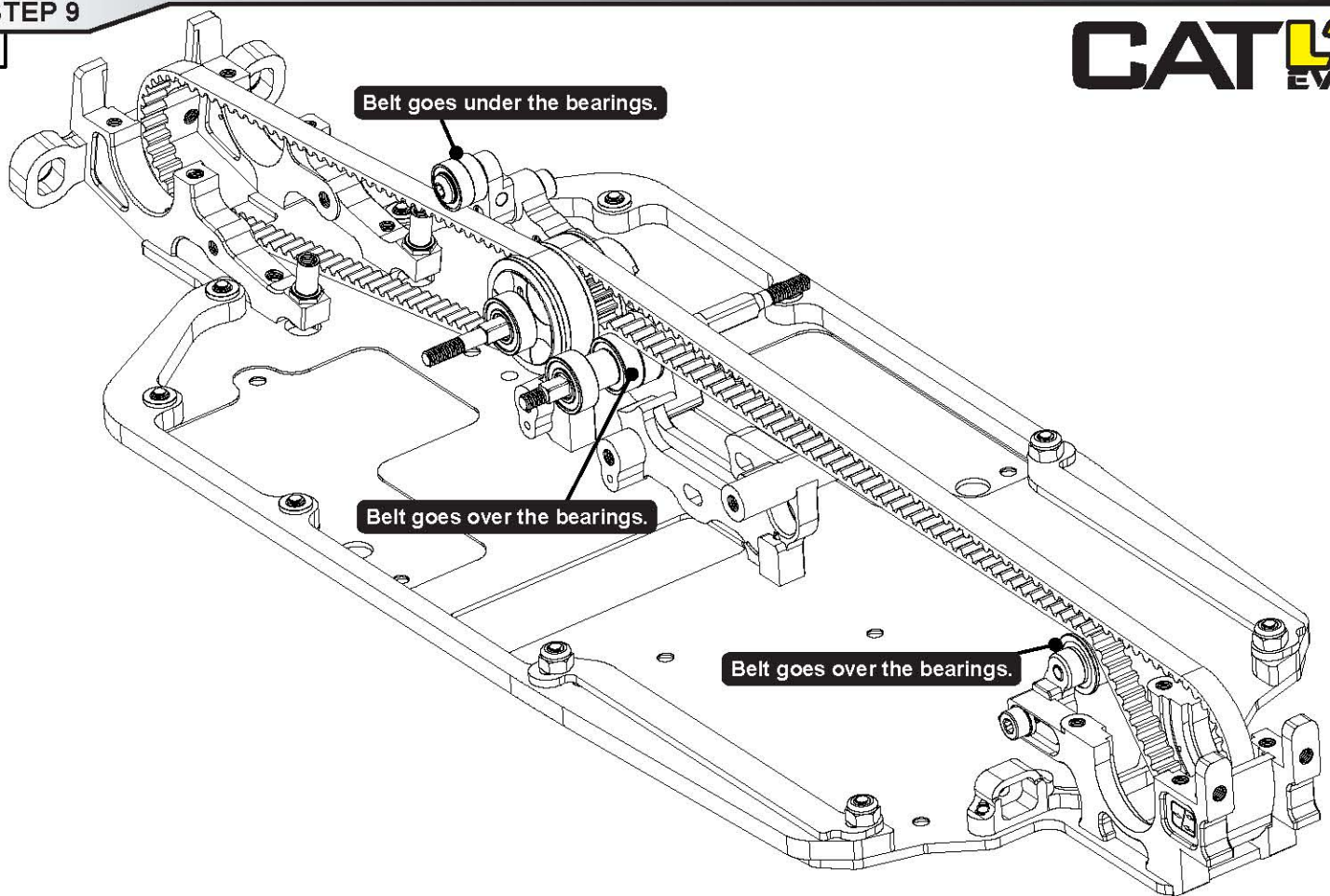
# STEP 9

A

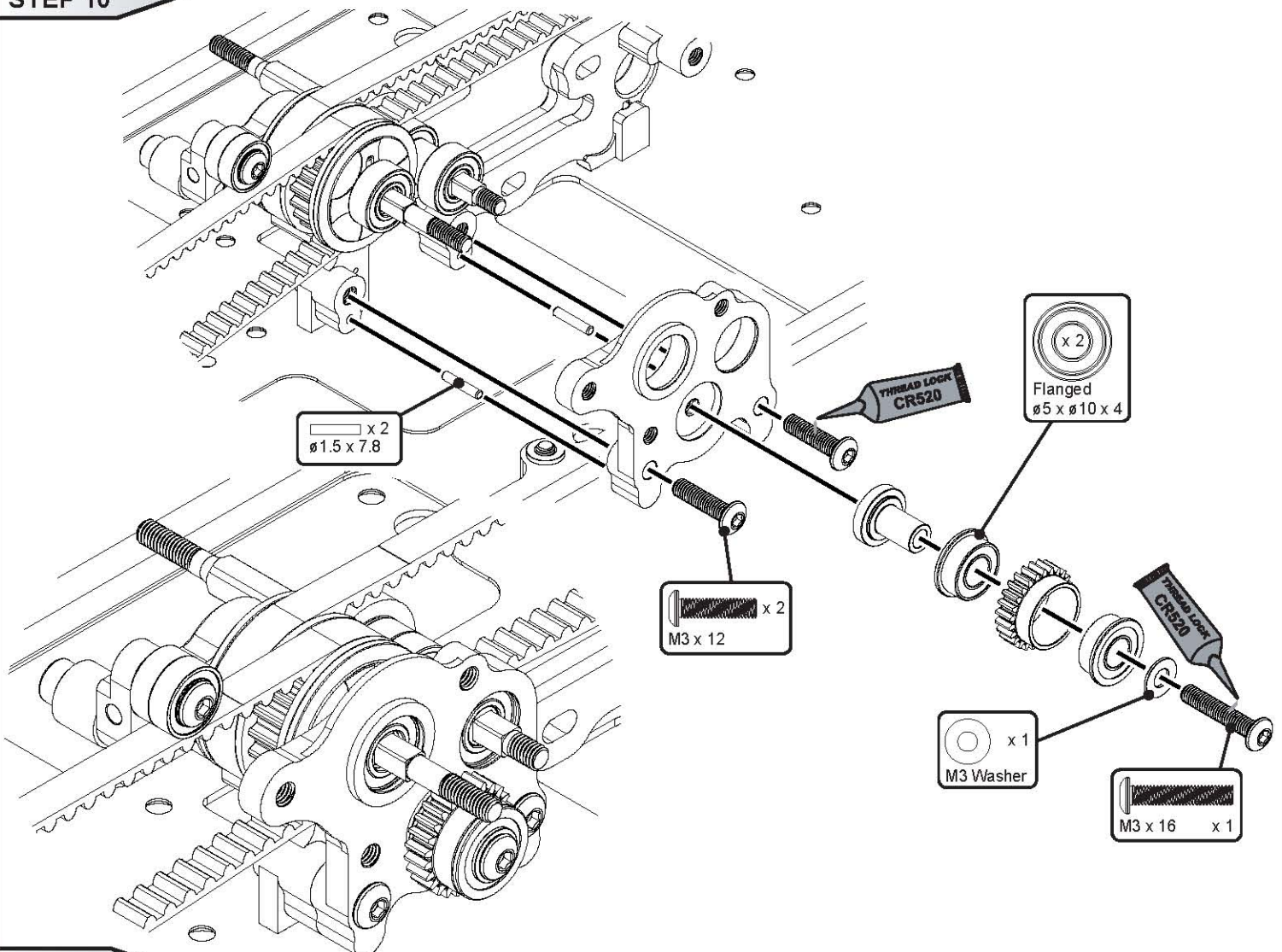


# STEP 9

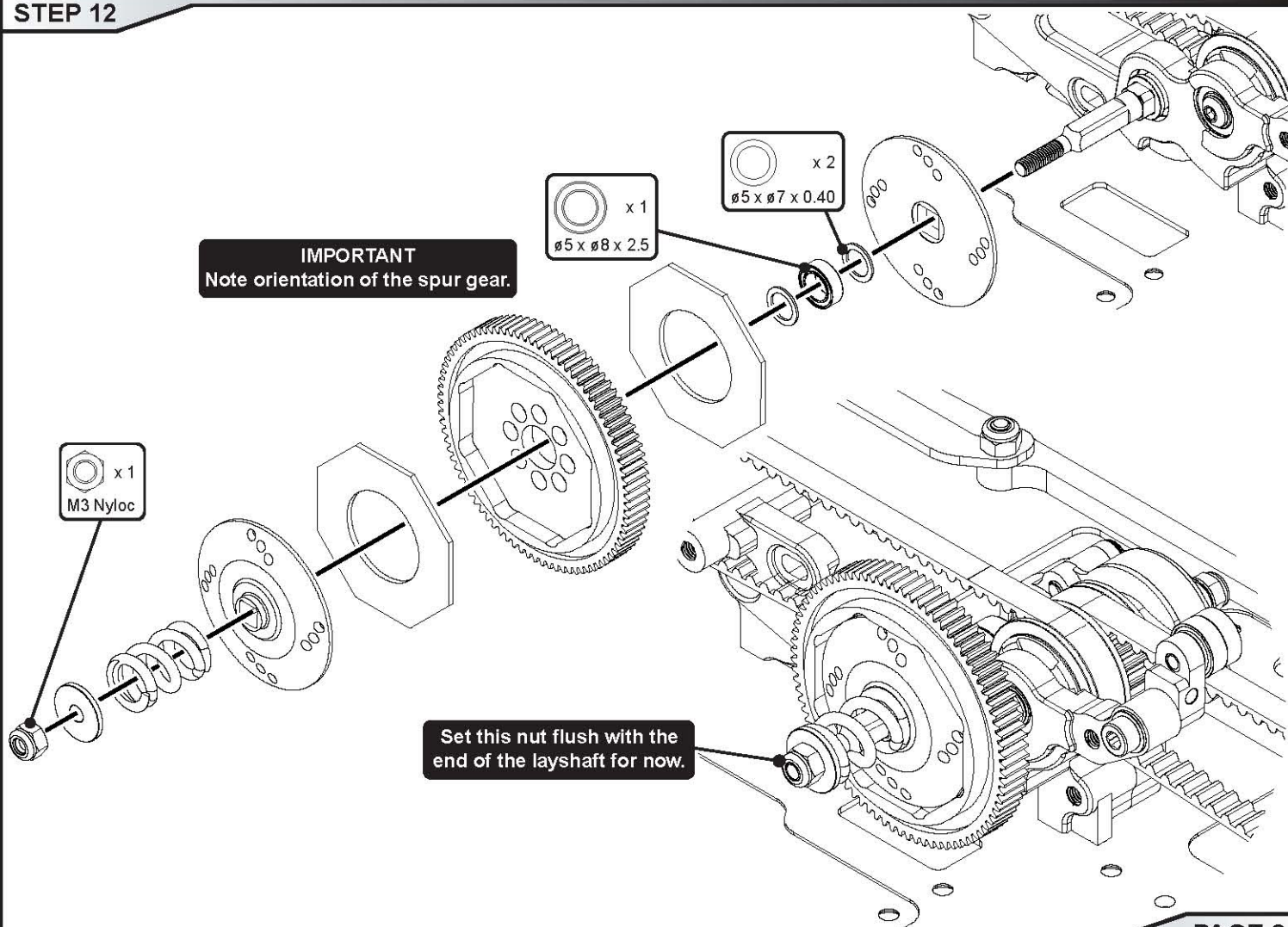
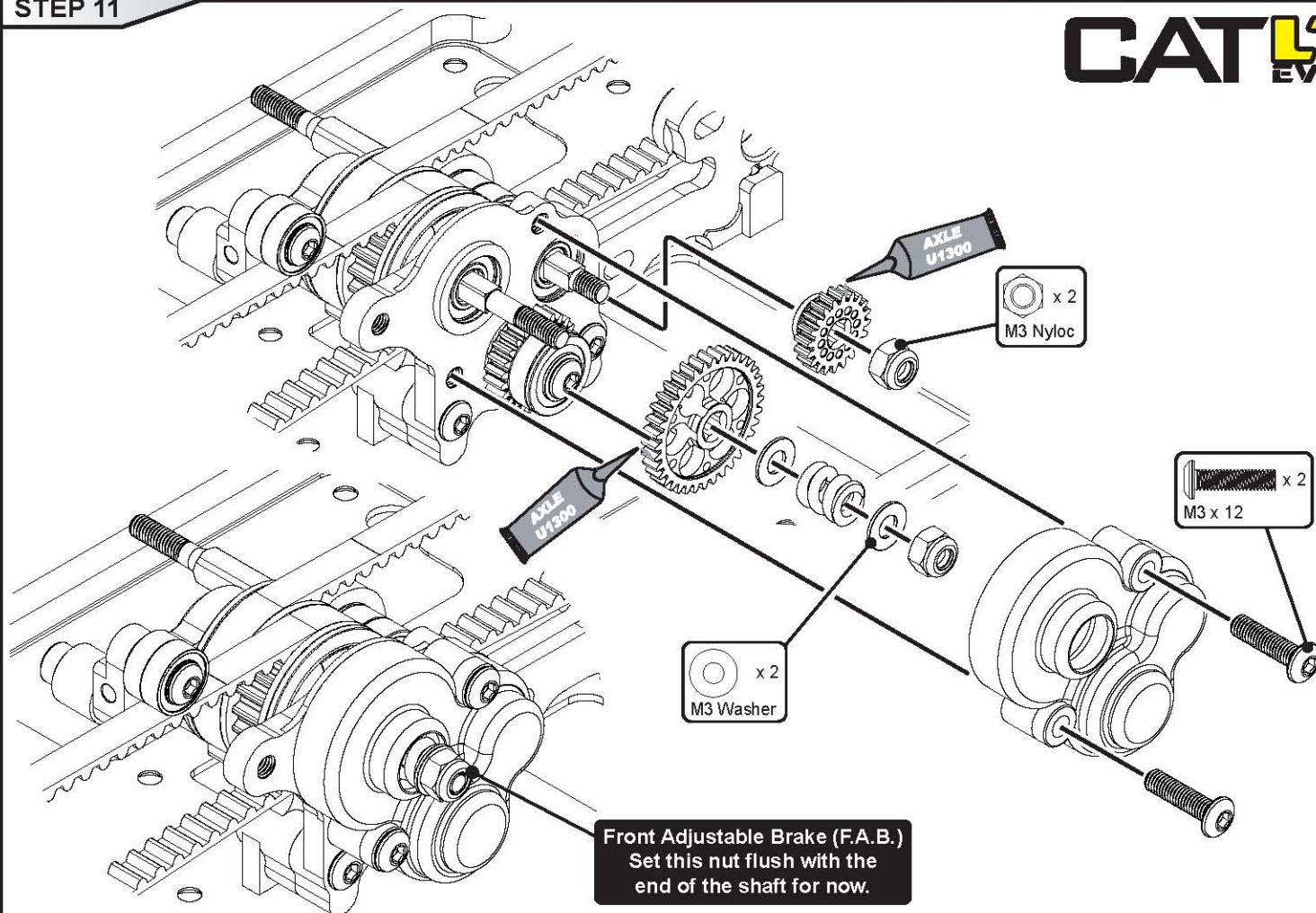
B



# STEP 10





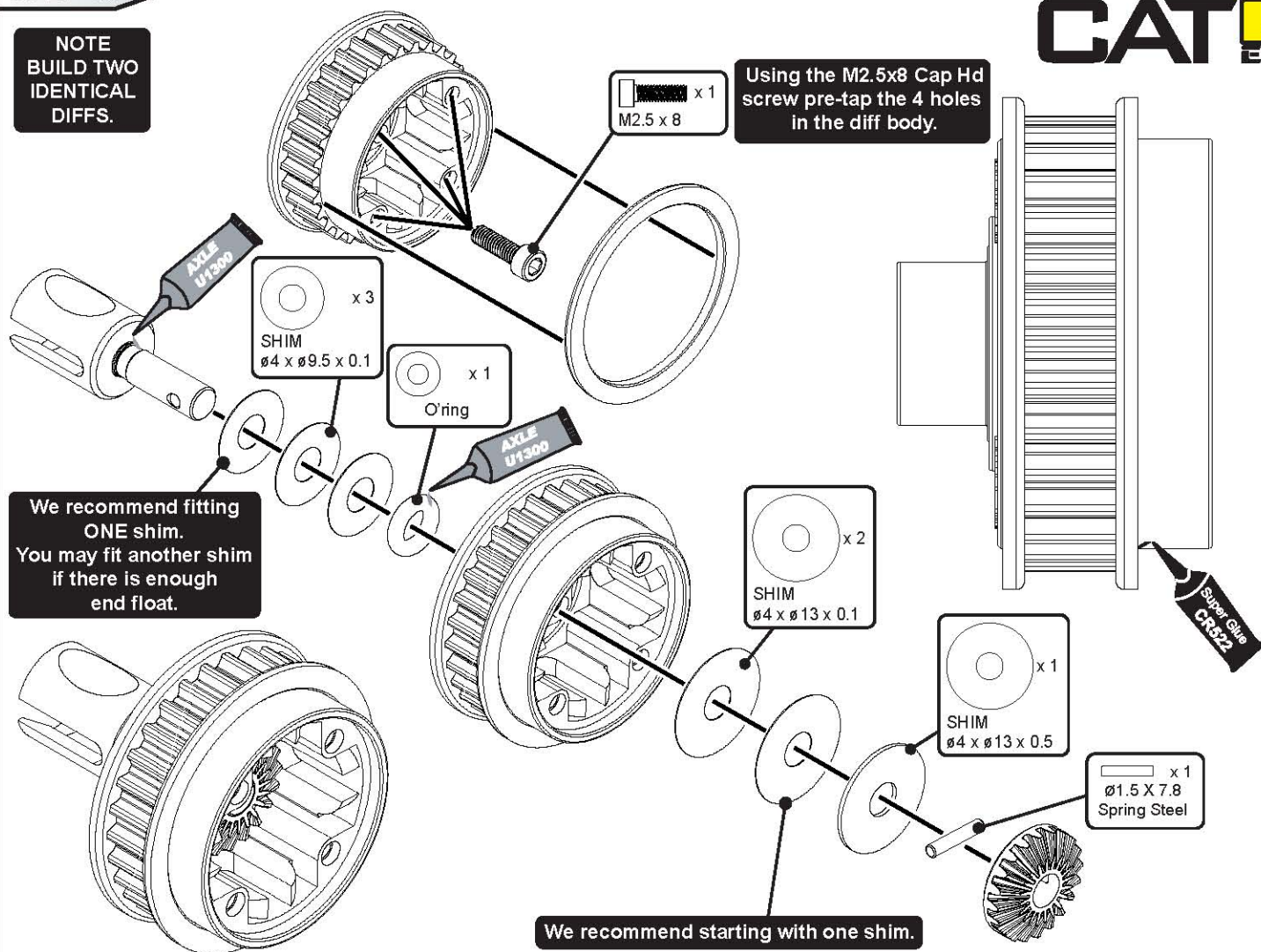


# STEP 13



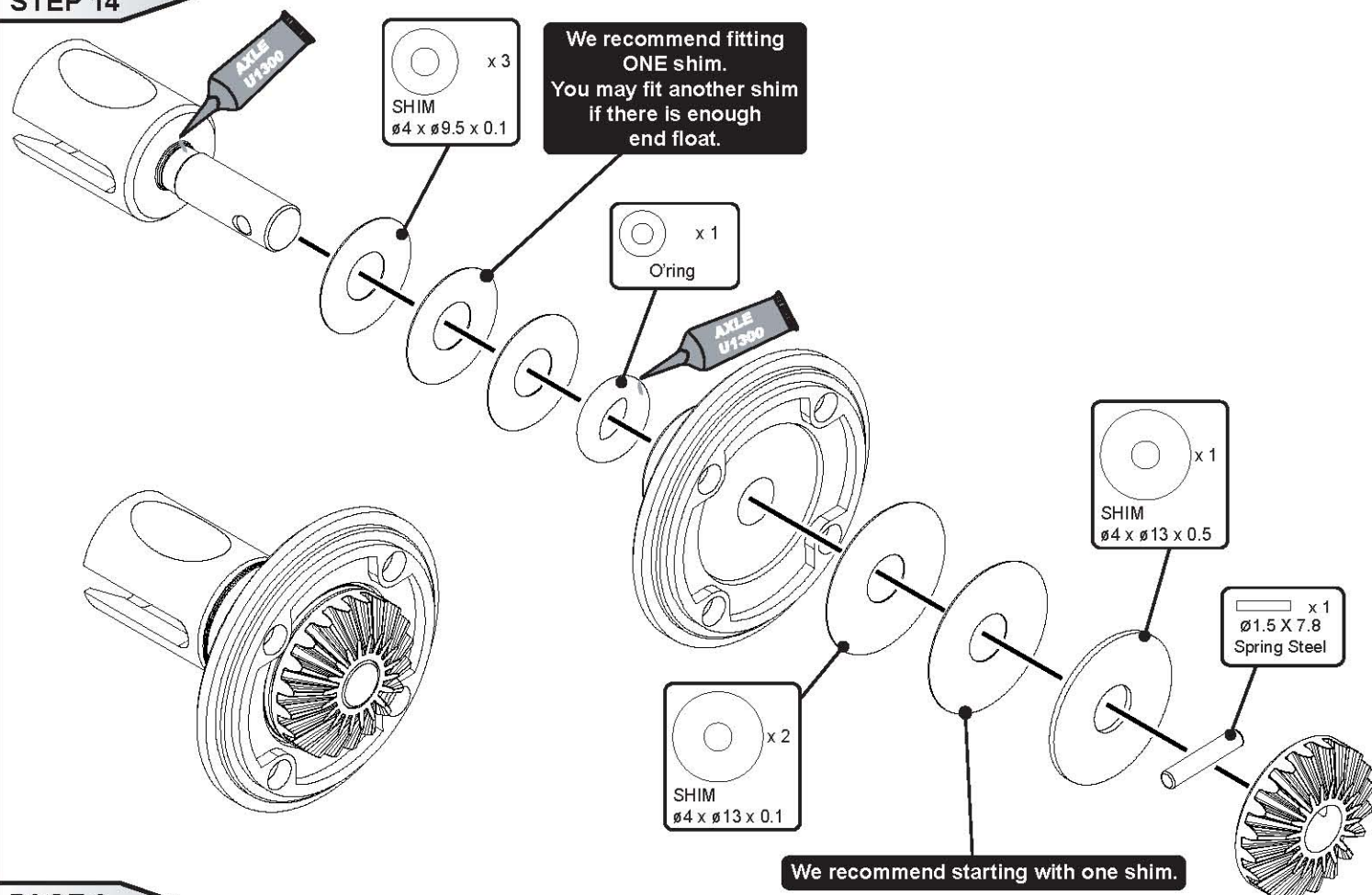
**NOTE**  
BUILD TWO  
IDENTICAL  
DIFFS.

Using the M2.5x8 Cap Hd  
screw pre-tap the 4 holes  
in the diff body.



# STEP 14

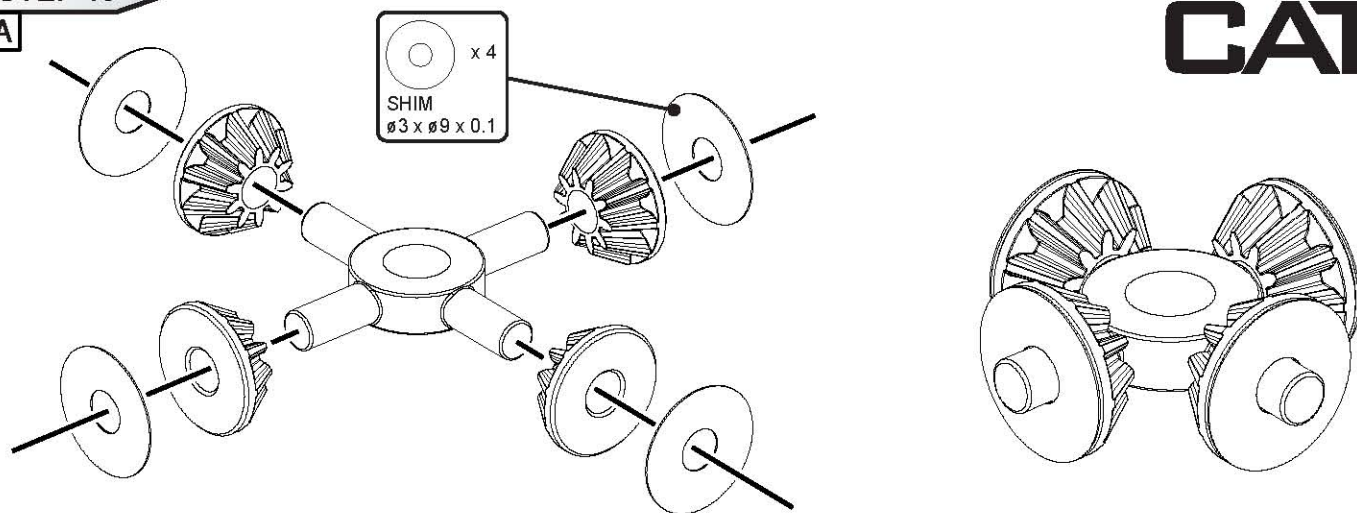
We recommend fitting  
ONE shim.  
You may fit another shim  
if there is enough  
end float.





# STEP 15

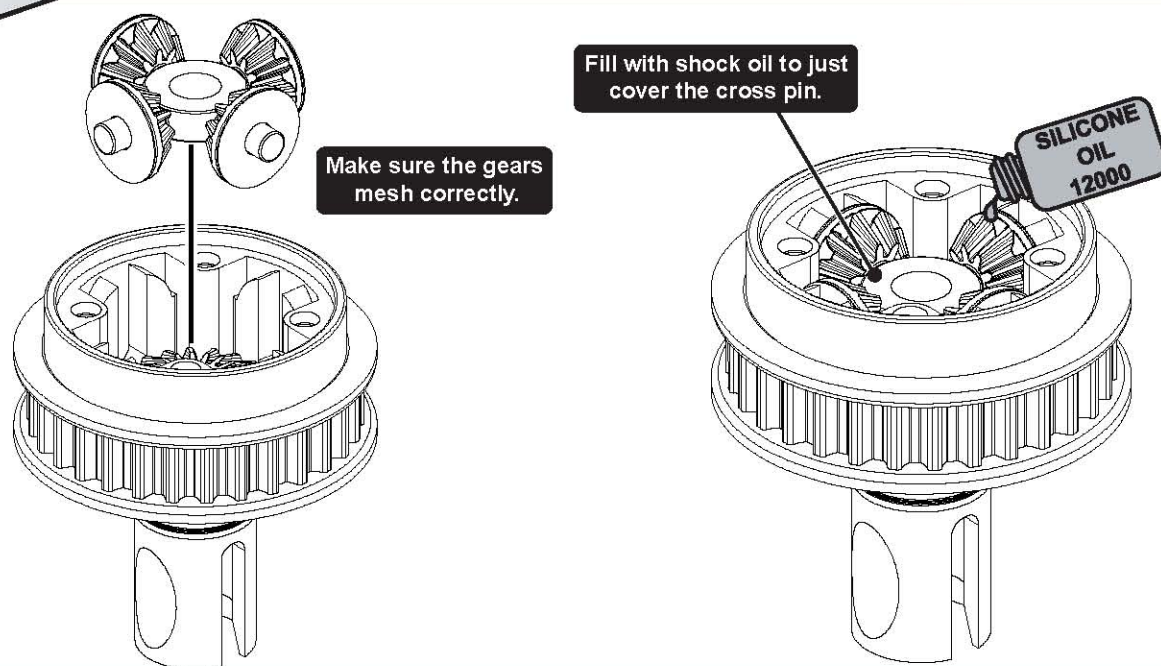
A



CAT L1  
EVO

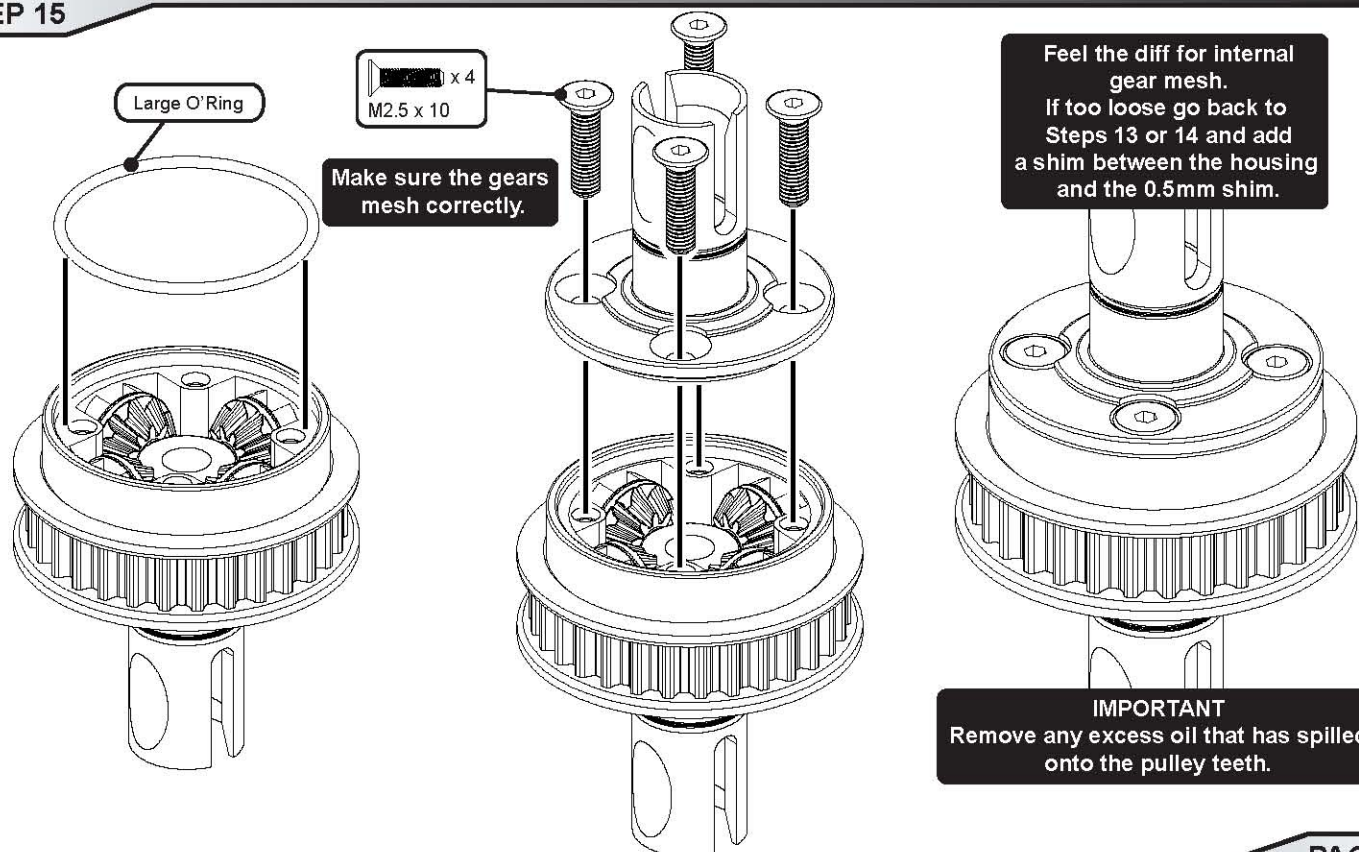
# STEP 15

B



# STEP 15

C

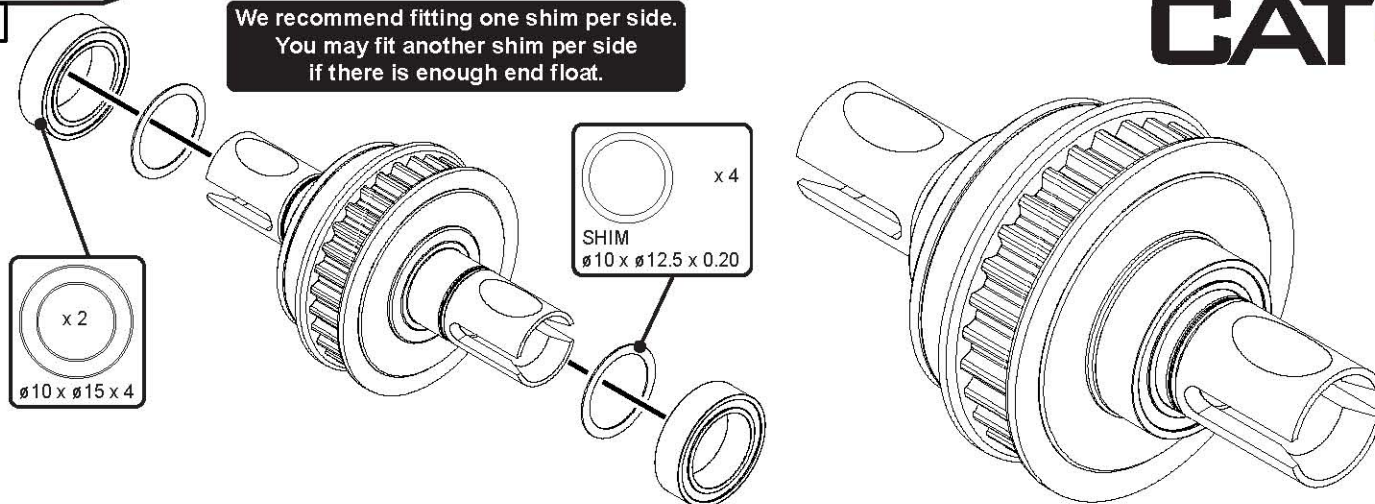


## STEP 15

D

We recommend fitting one shim per side.  
You may fit another shim per side  
if there is enough end float.

**CAT** **L1**  
EVO

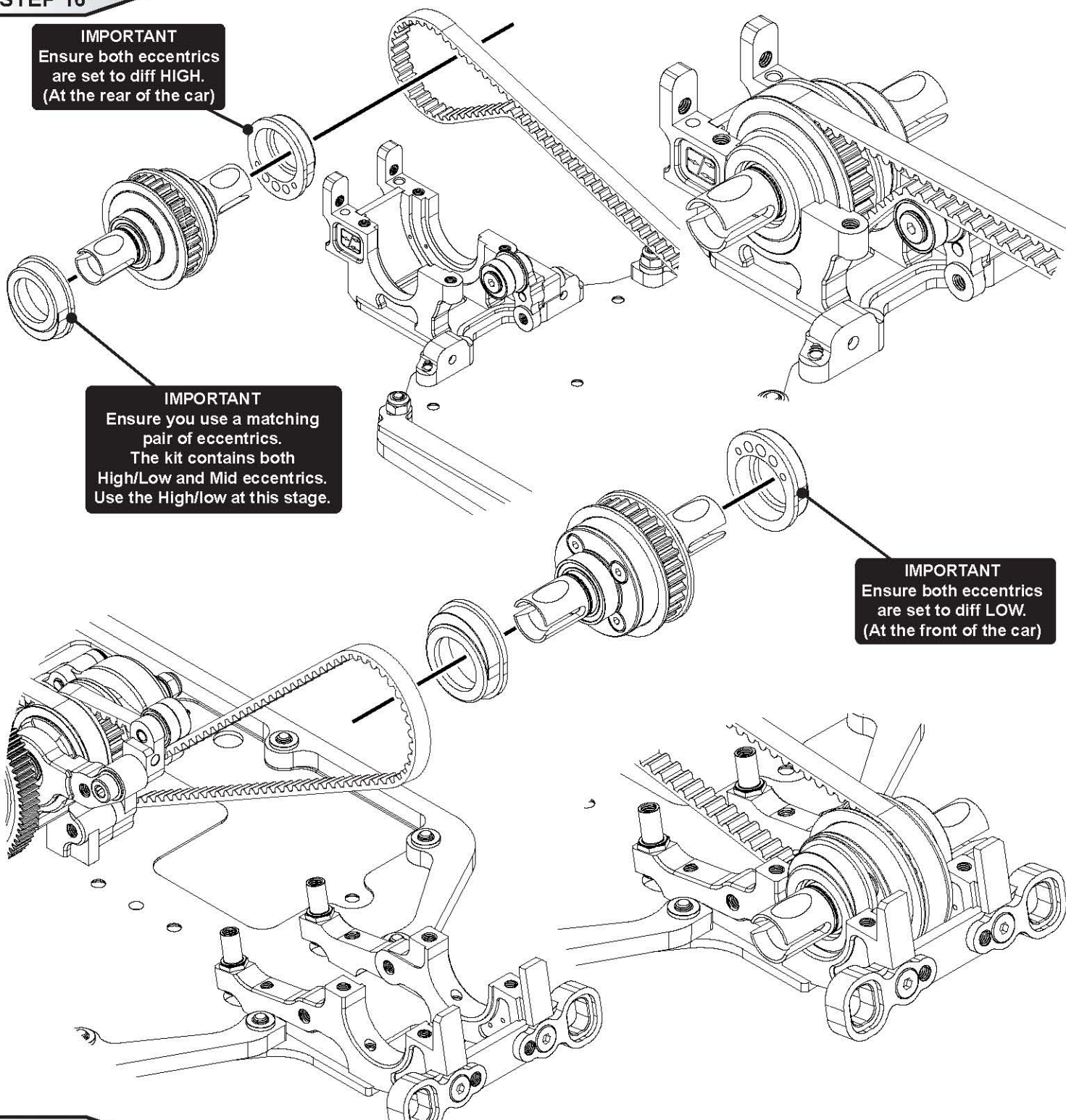


## STEP 16

**IMPORTANT**  
Ensure both eccentrics  
are set to diff HIGH.  
(At the rear of the car)

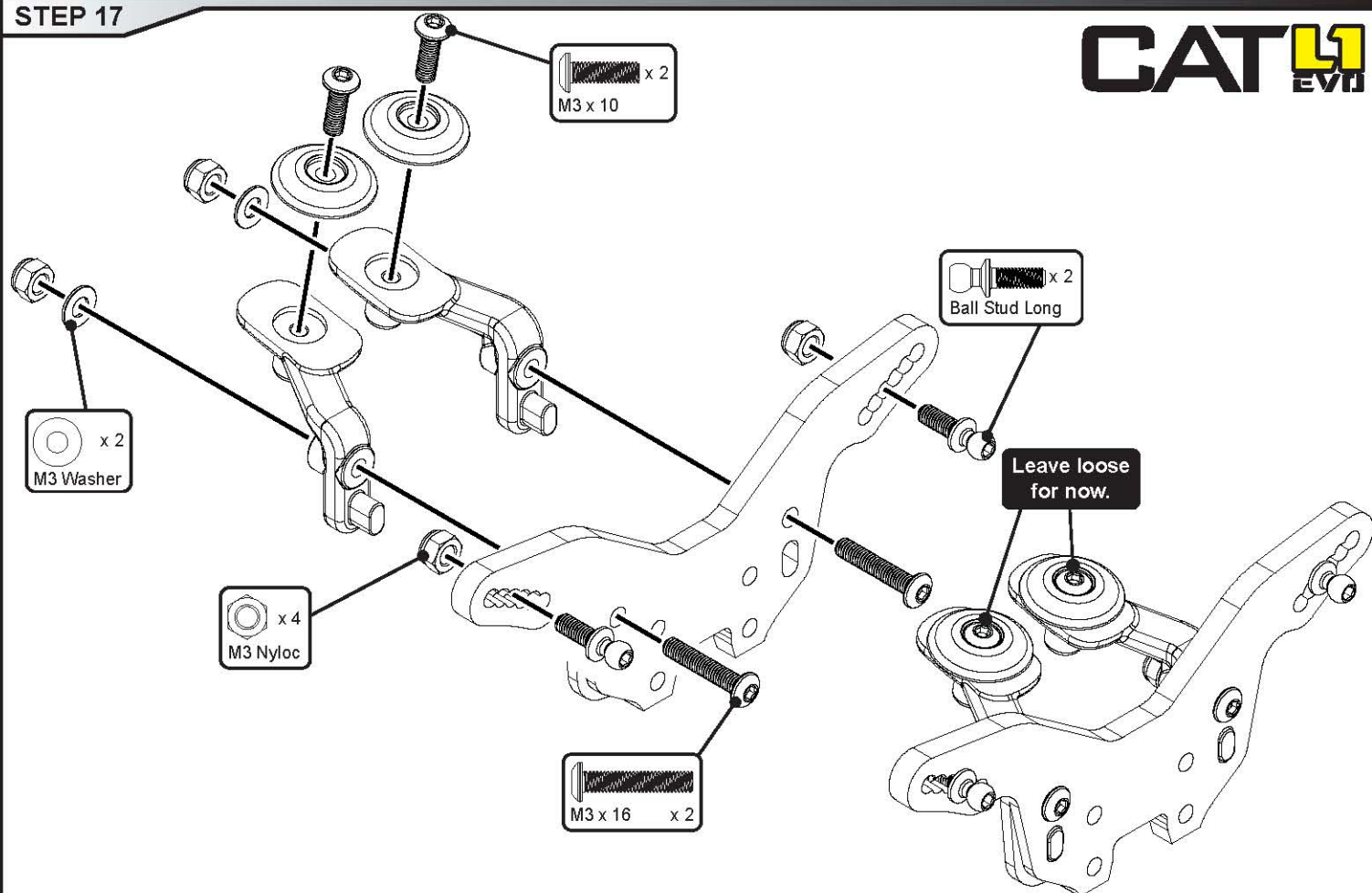
**IMPORTANT**  
Ensure you use a matching  
pair of eccentrics.  
The kit contains both  
High/Low and Mid eccentrics.  
Use the High/low at this stage.

**IMPORTANT**  
Ensure both eccentrics  
are set to diff LOW.  
(At the front of the car)



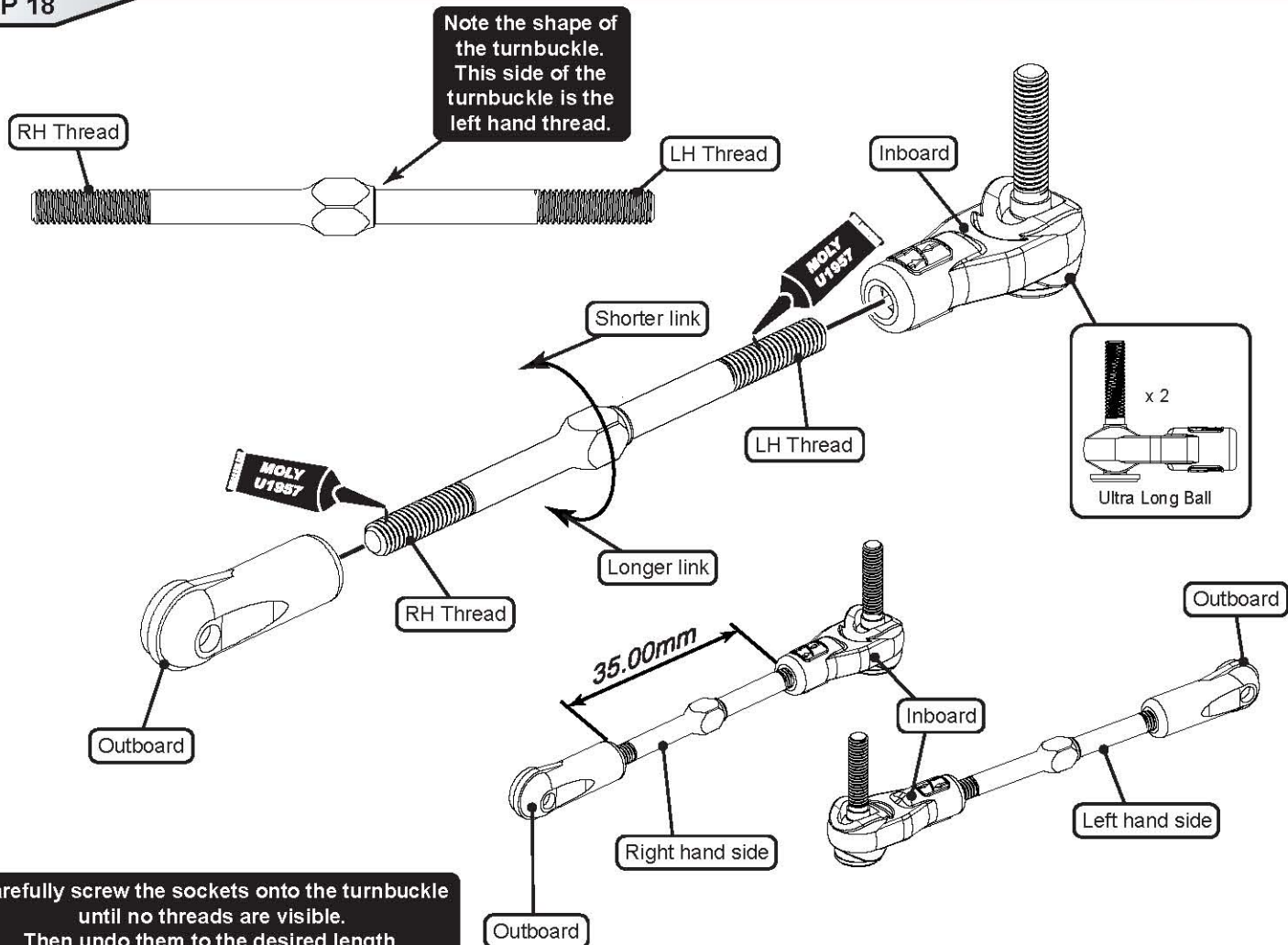


# STEP 17



# STEP 18

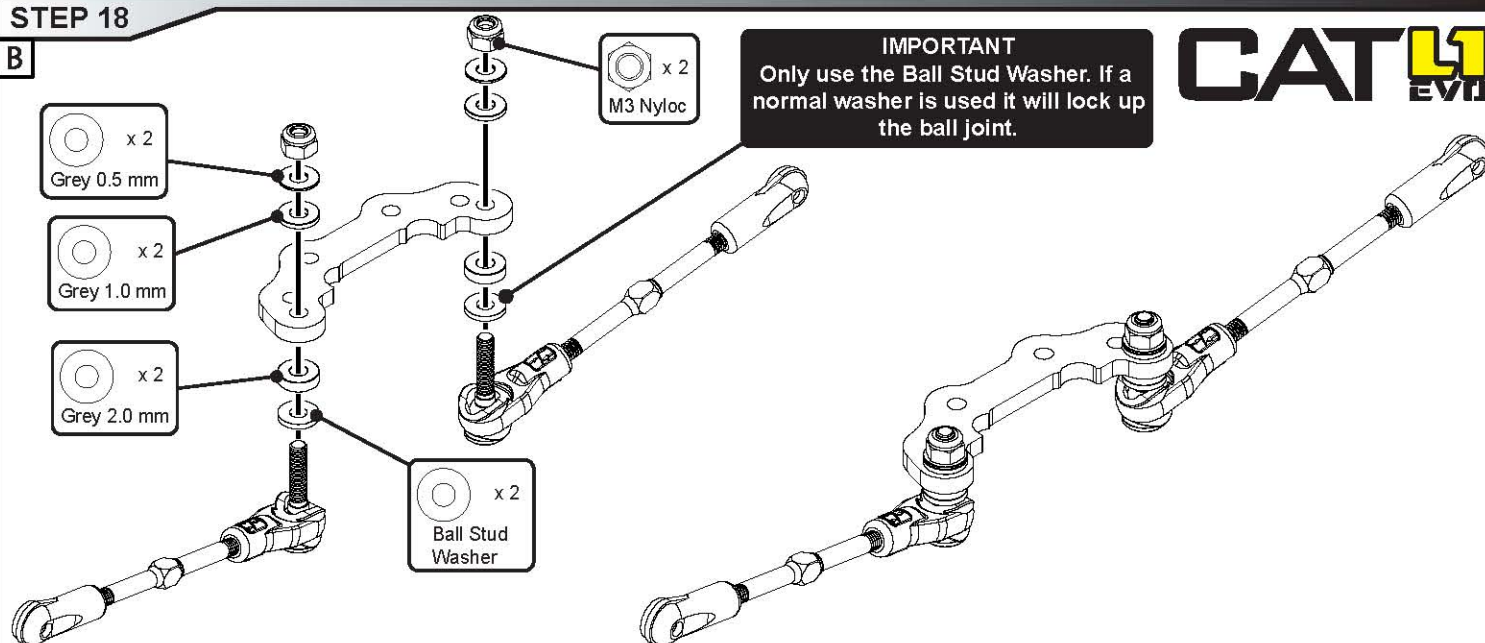
**A**



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)

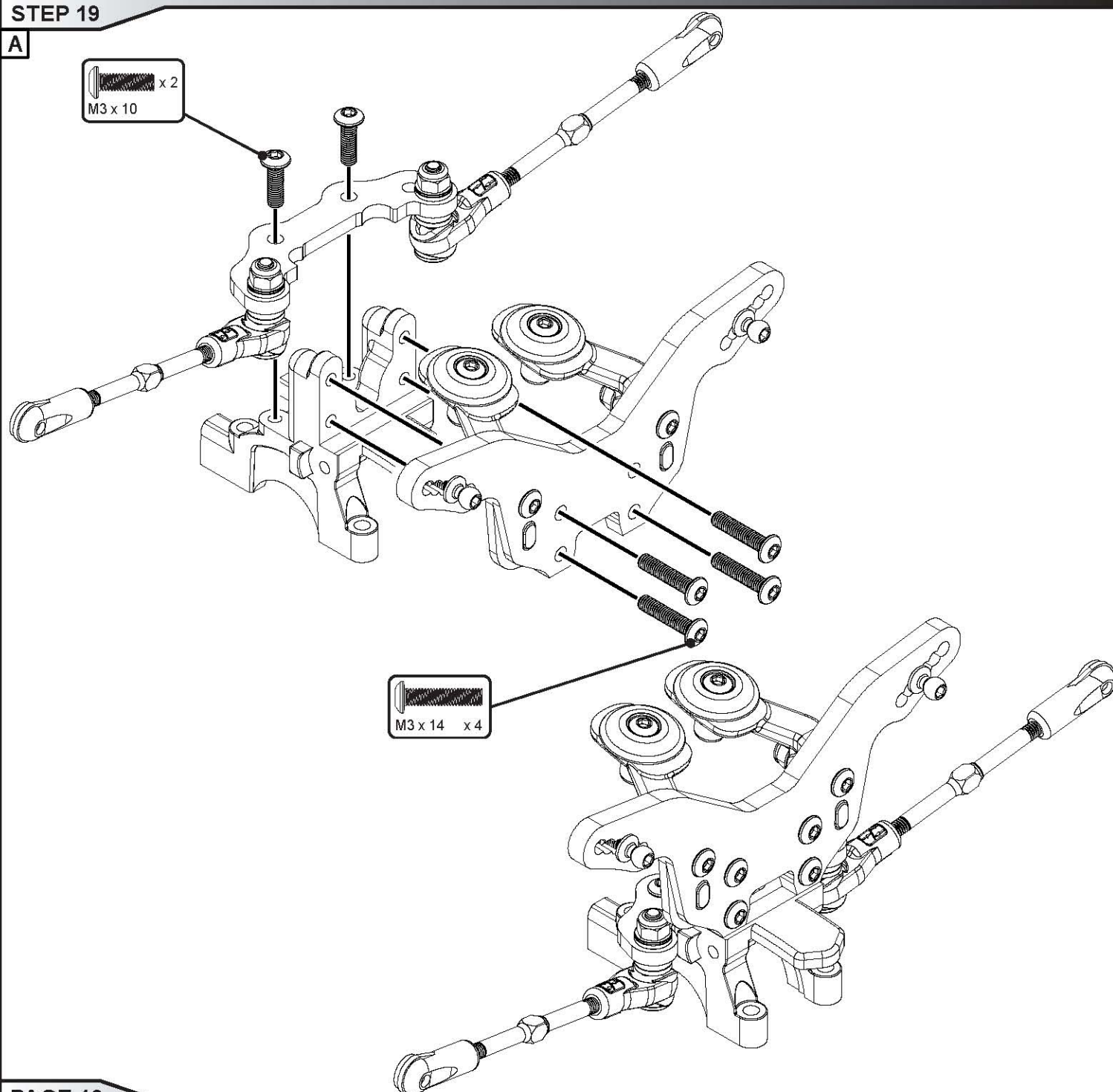
## STEP 18

B



## STEP 19

A

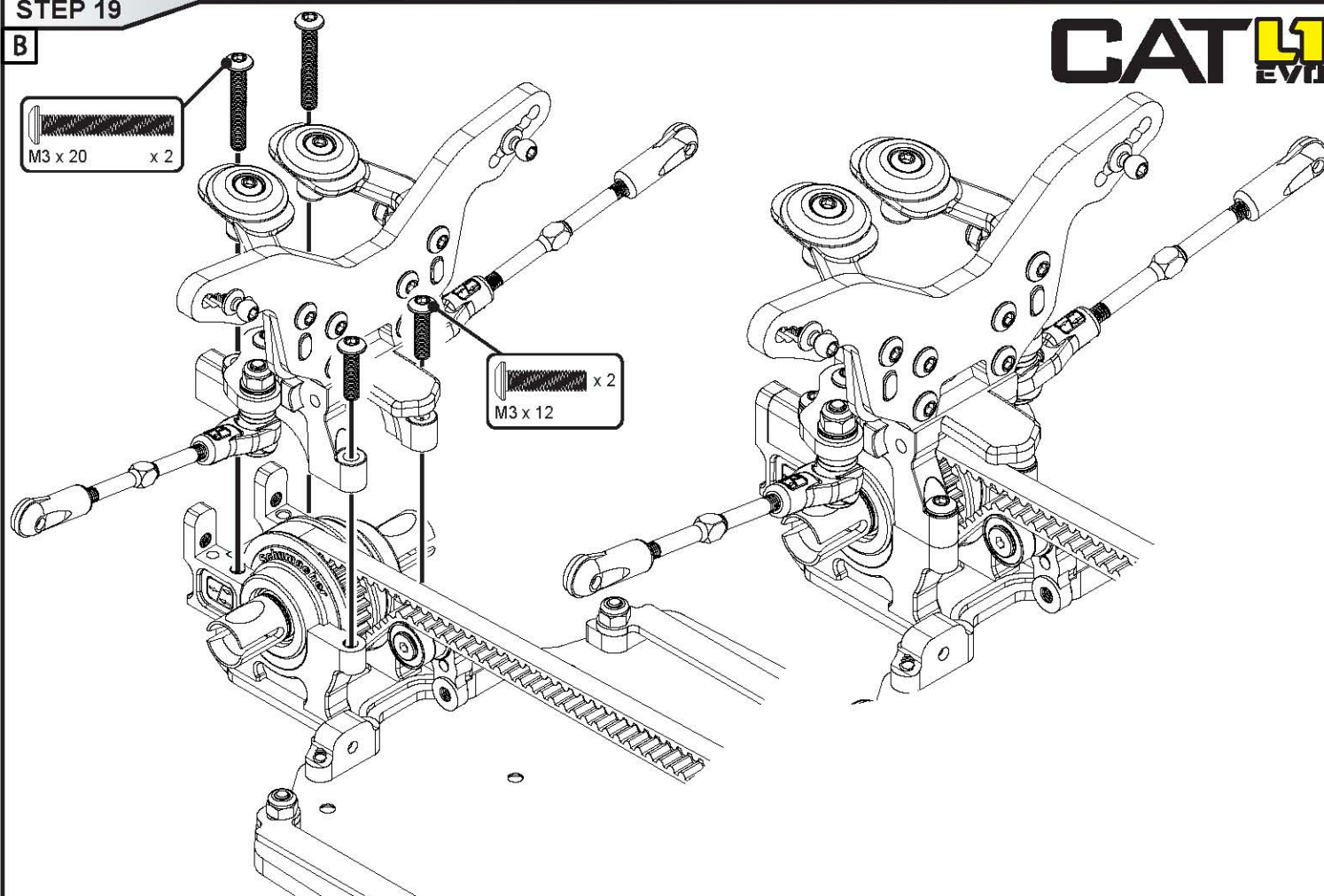




# STEP 19

B

CAT L1  
EVI



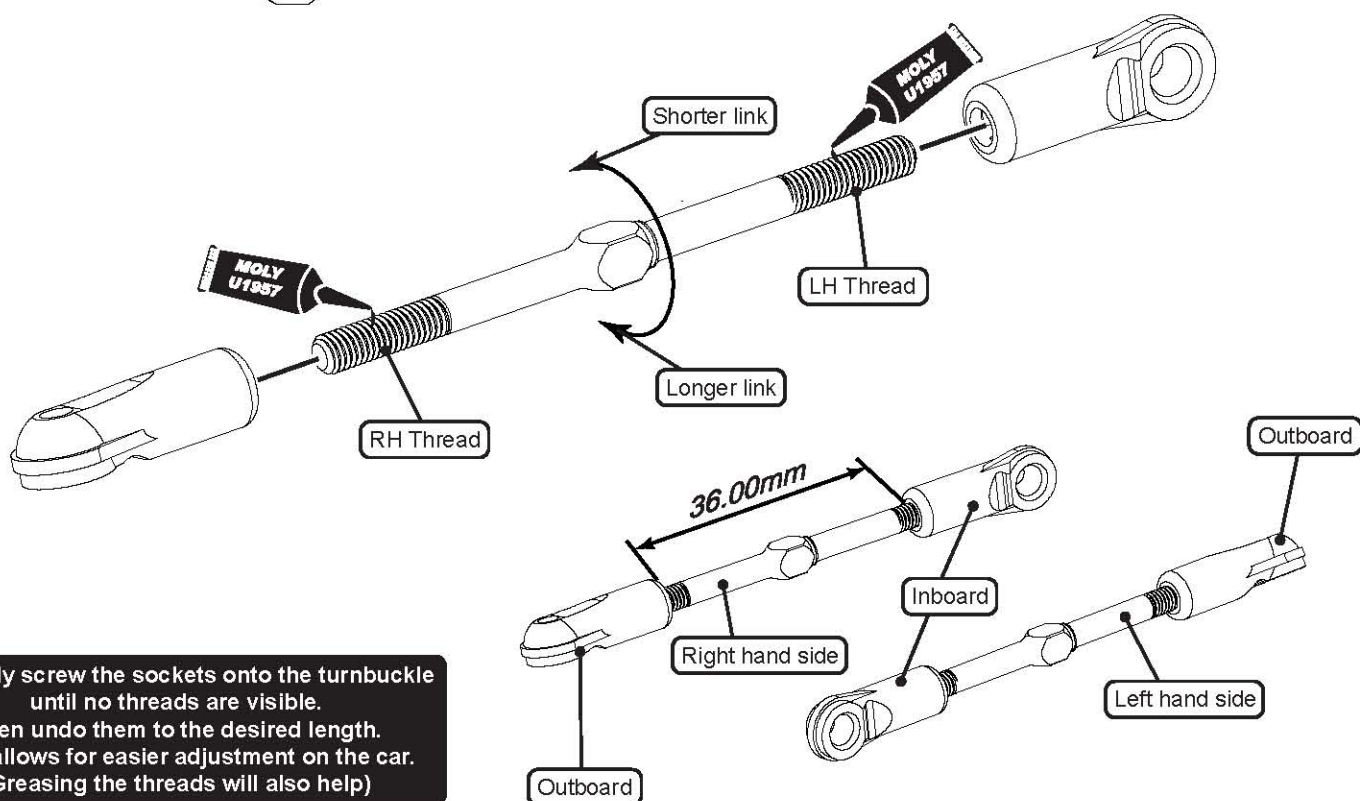
# STEP 20

A

Note the shape of the turnbuckle. This side of the turnbuckle is the left hand thread.

RH Thread

LH Thread

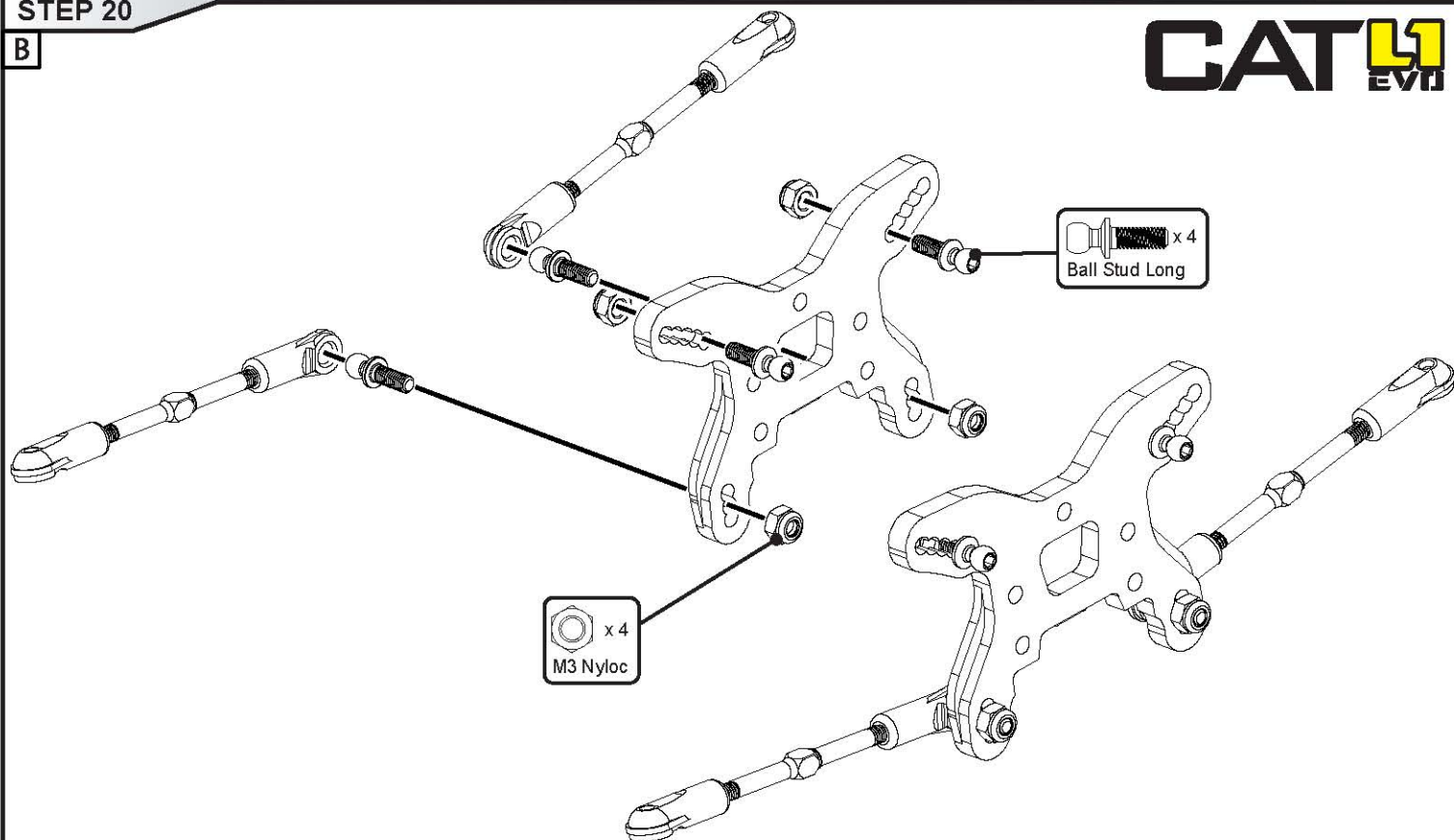


Carefully screw the sockets onto the turnbuckle until no threads are visible. Then undo them to the desired length. This allows for easier adjustment on the car. (Greasing the threads will also help)

# STEP 20

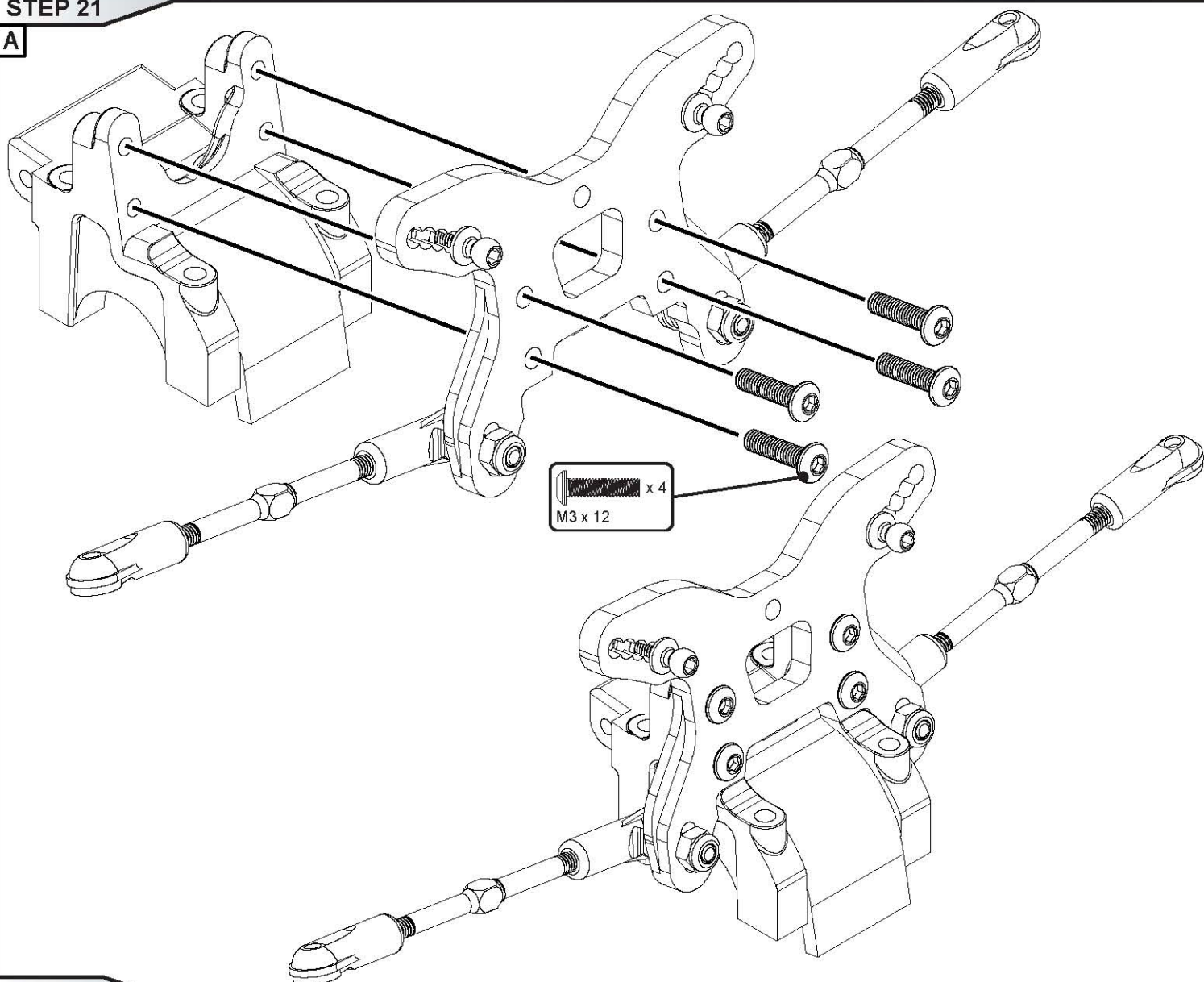
B

CAT L1  
EVO



# STEP 21

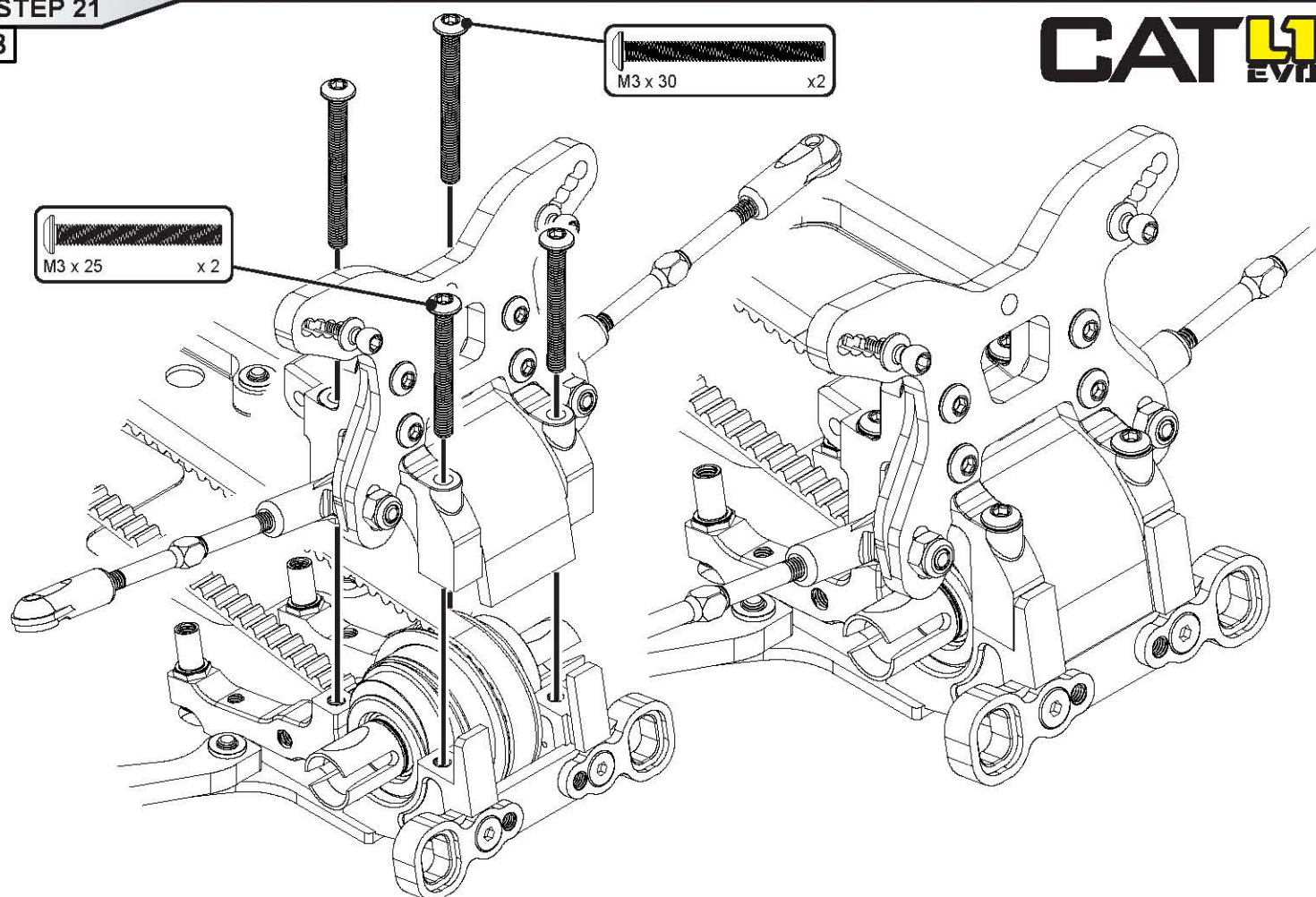
A





# STEP 21

B



# STEP 22

Note the shape of the turnbuckle. This side of the turnbuckle is the left hand thread.

RH Thread

LH Thread

Shorter link

LH Thread

Longer link

RH Thread

31.00mm

Right hand side

Inboard

Left hand side

x 2

Long Ball

x 2

Short Ball

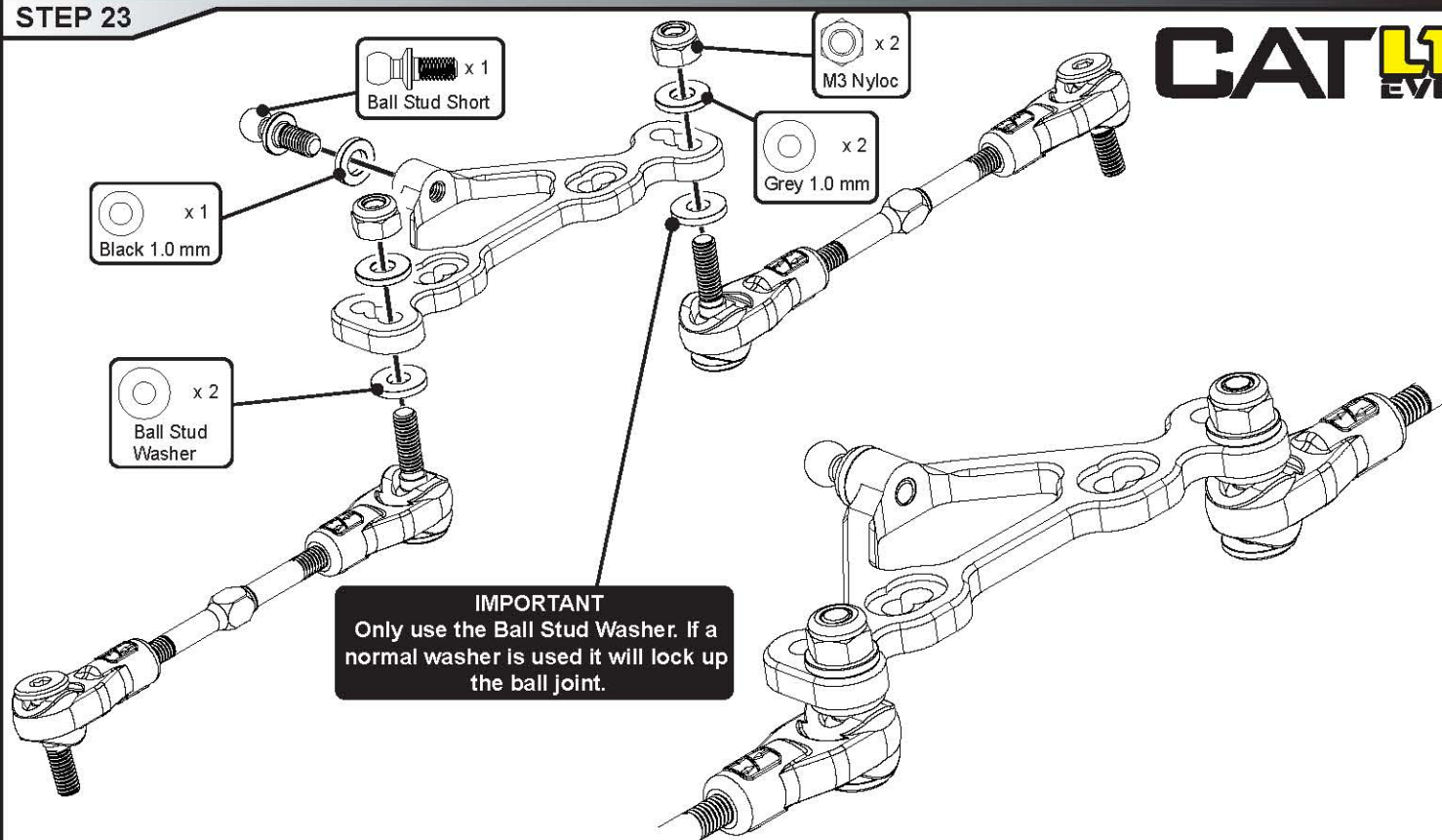
Outboard

Outboard

Outboard

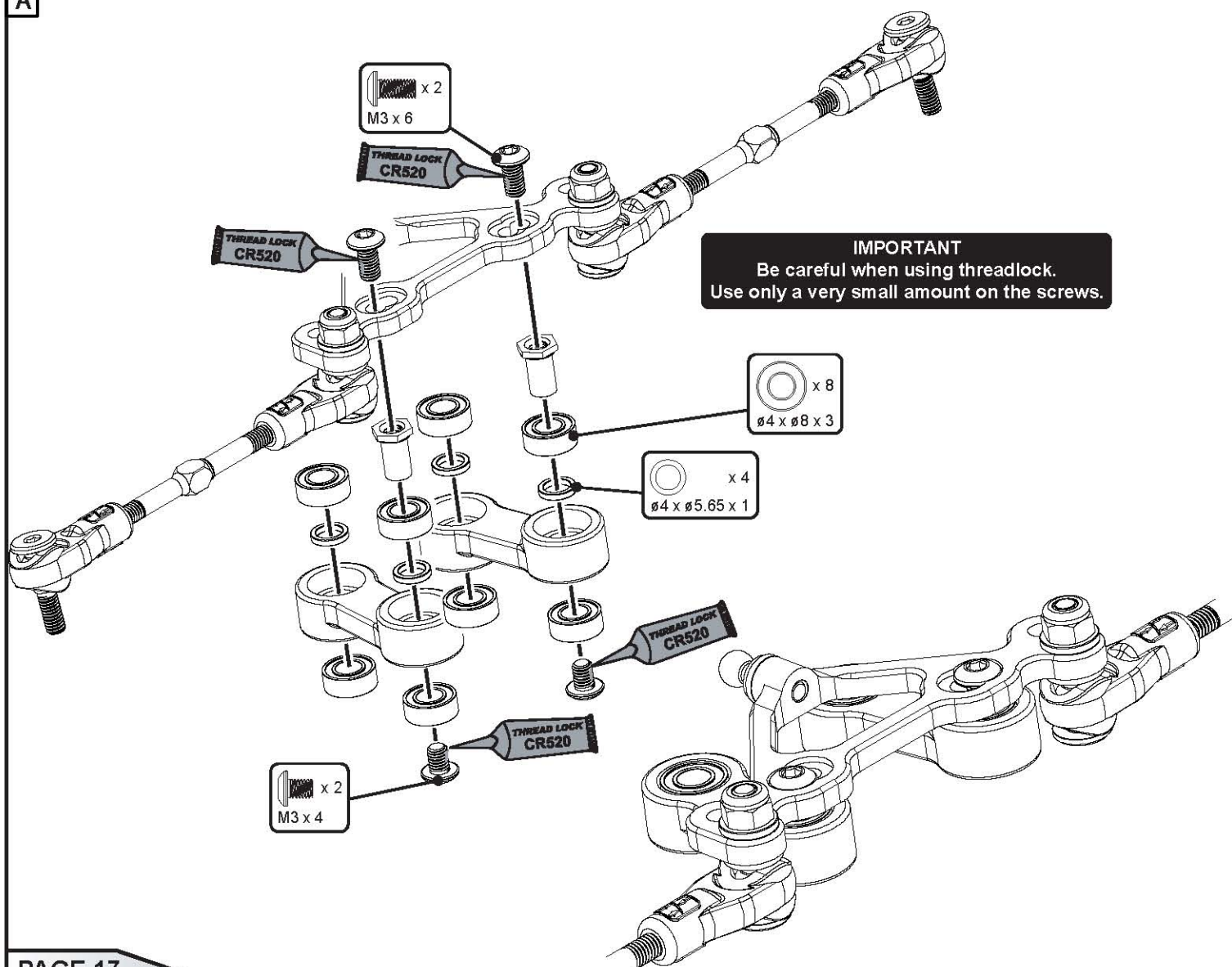
Carefully screw the sockets onto the turnbuckle until no threads are visible. Then undo them to the desired length. This allows for easier adjustment on the car. (Greasing the threads will also help)

## STEP 23



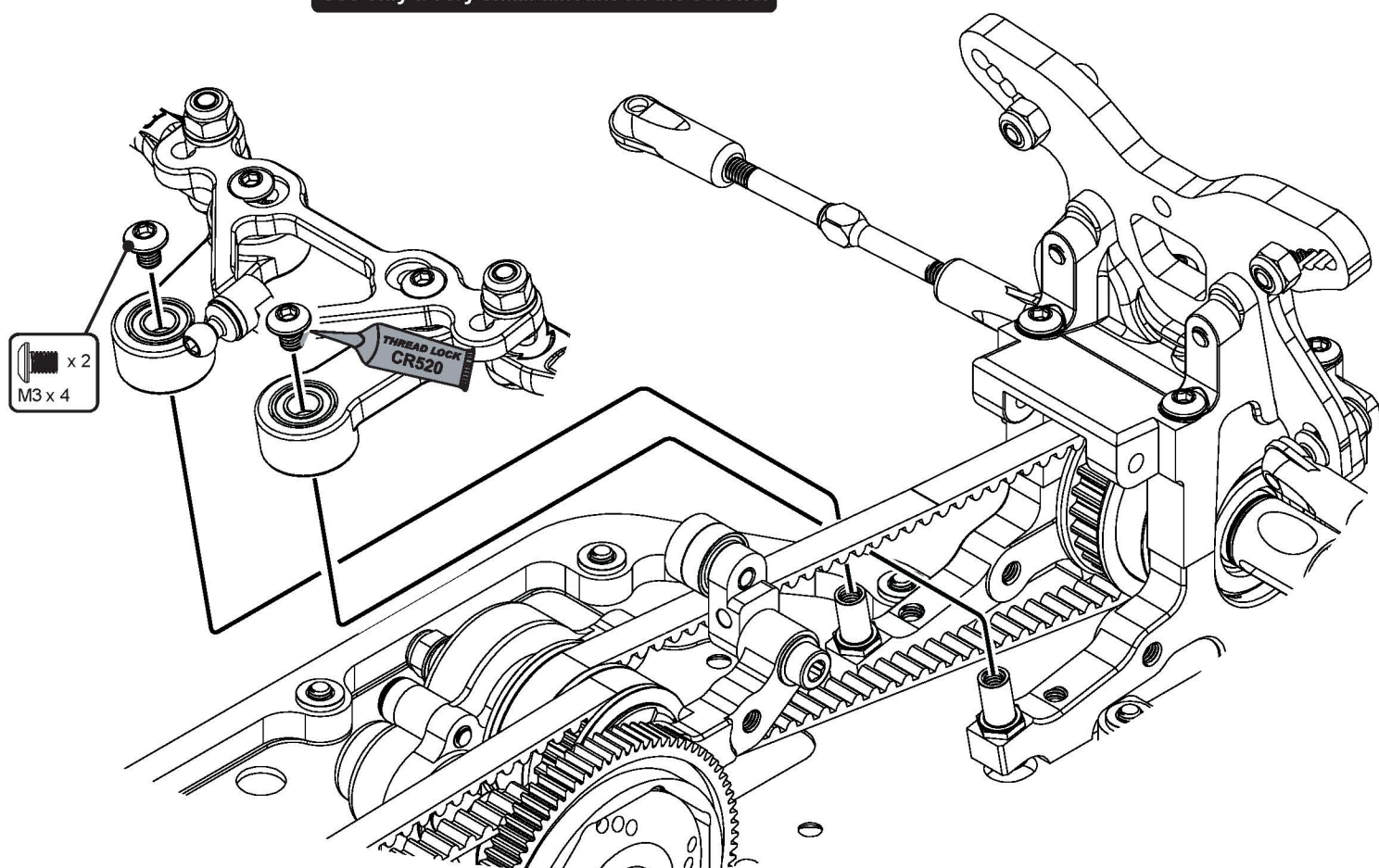
## STEP 24

A

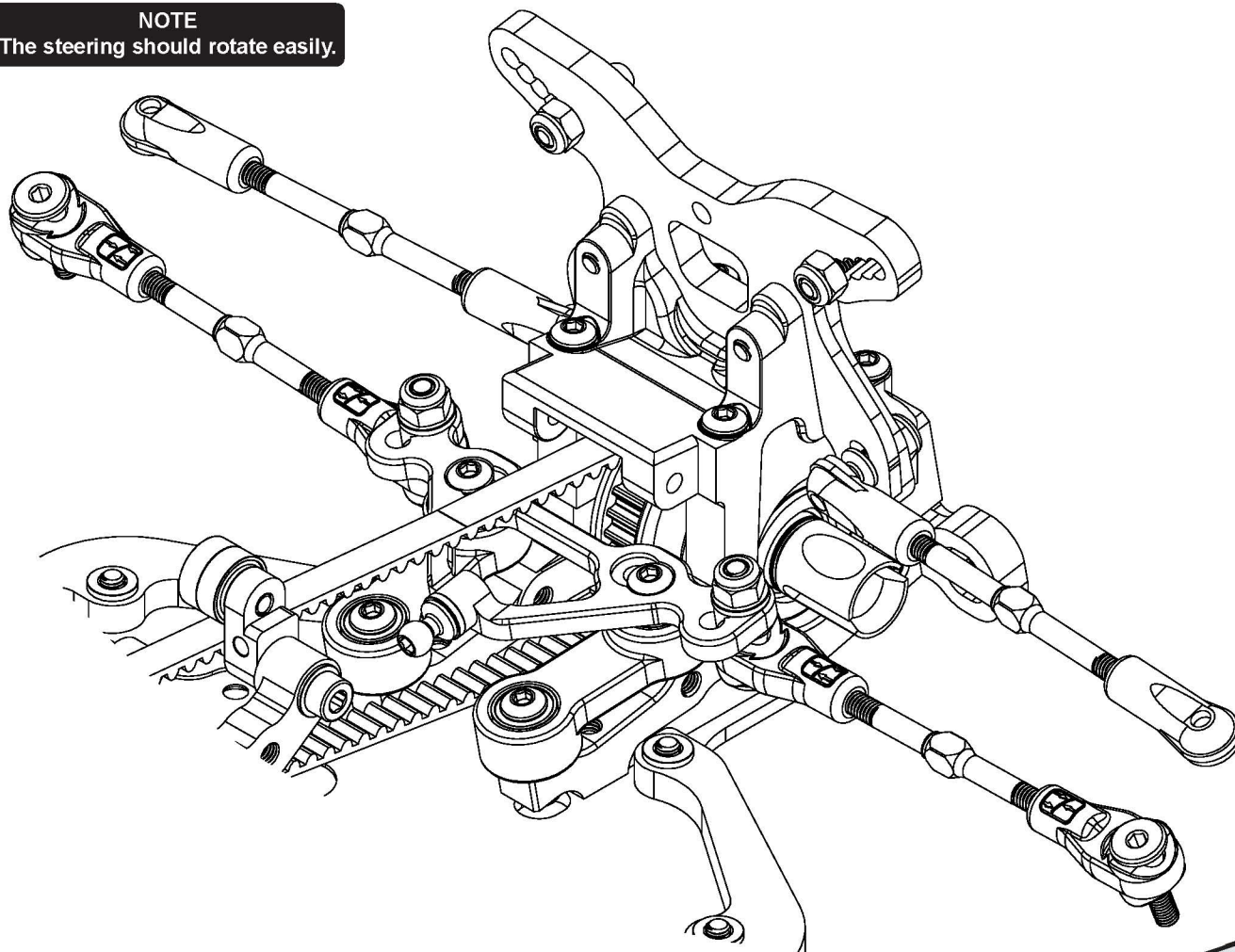




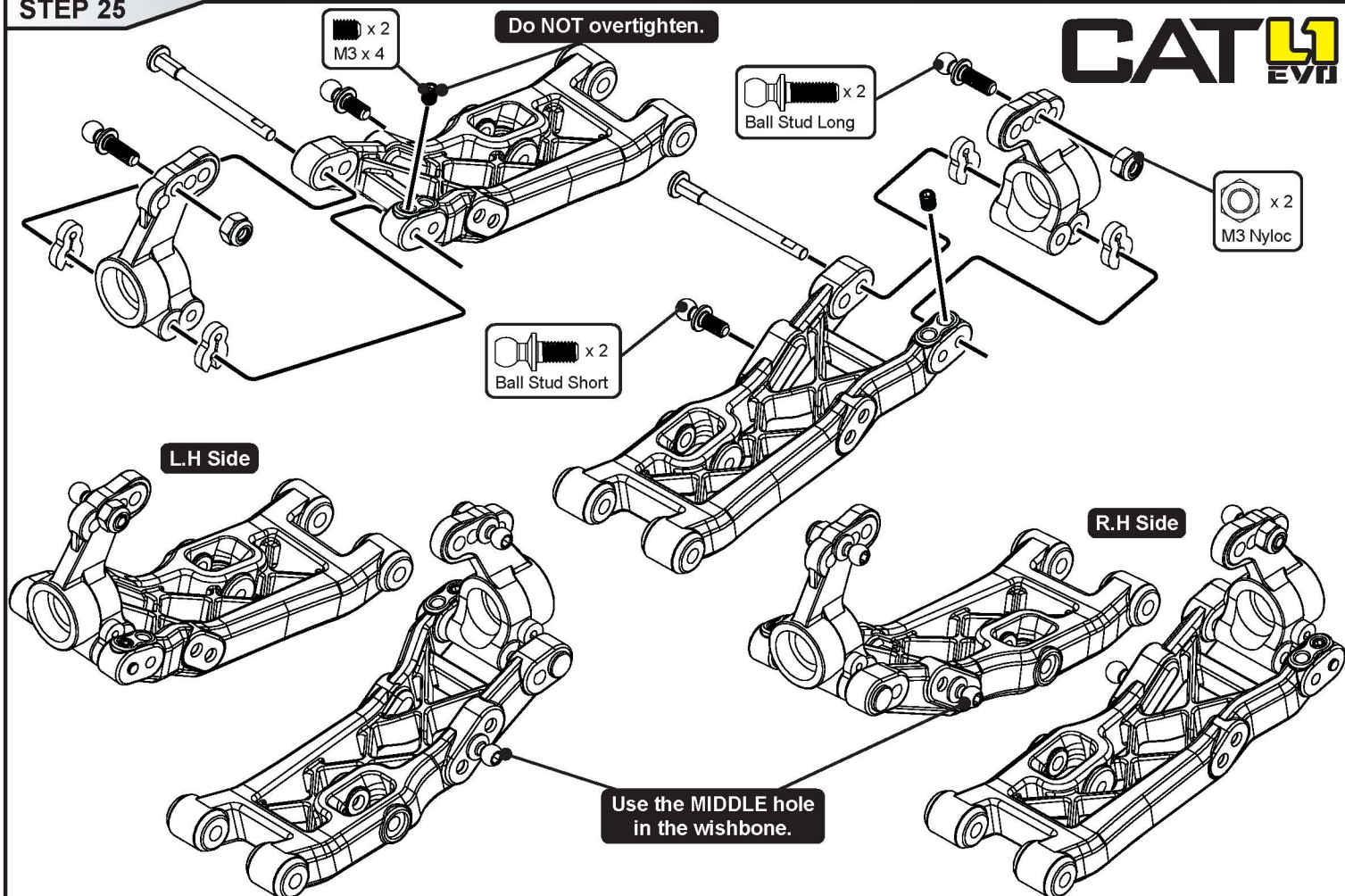
**IMPORTANT**  
Be careful when using threadlock.  
Use only a very small amount on the screws.



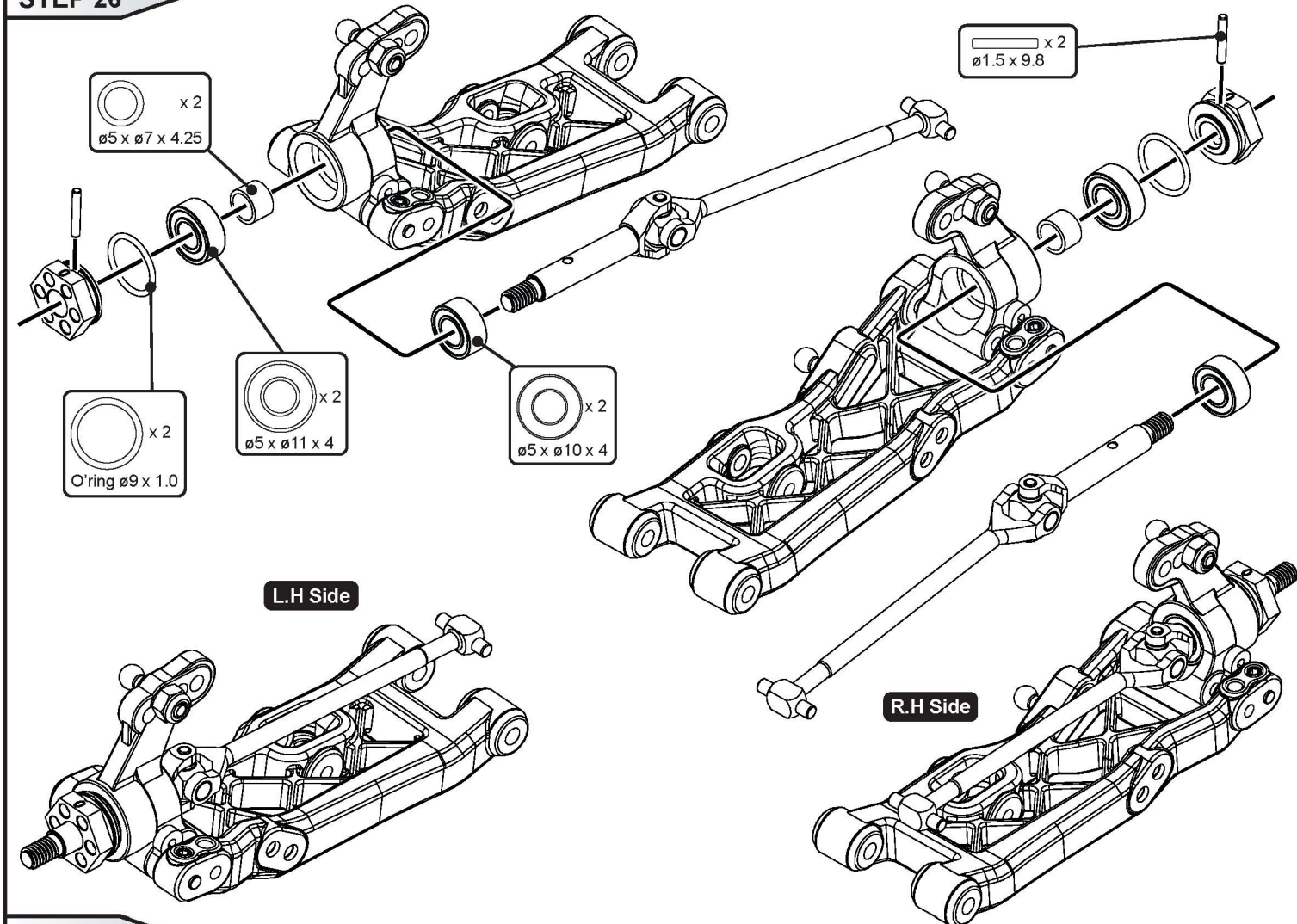
**NOTE**  
The steering should rotate easily.



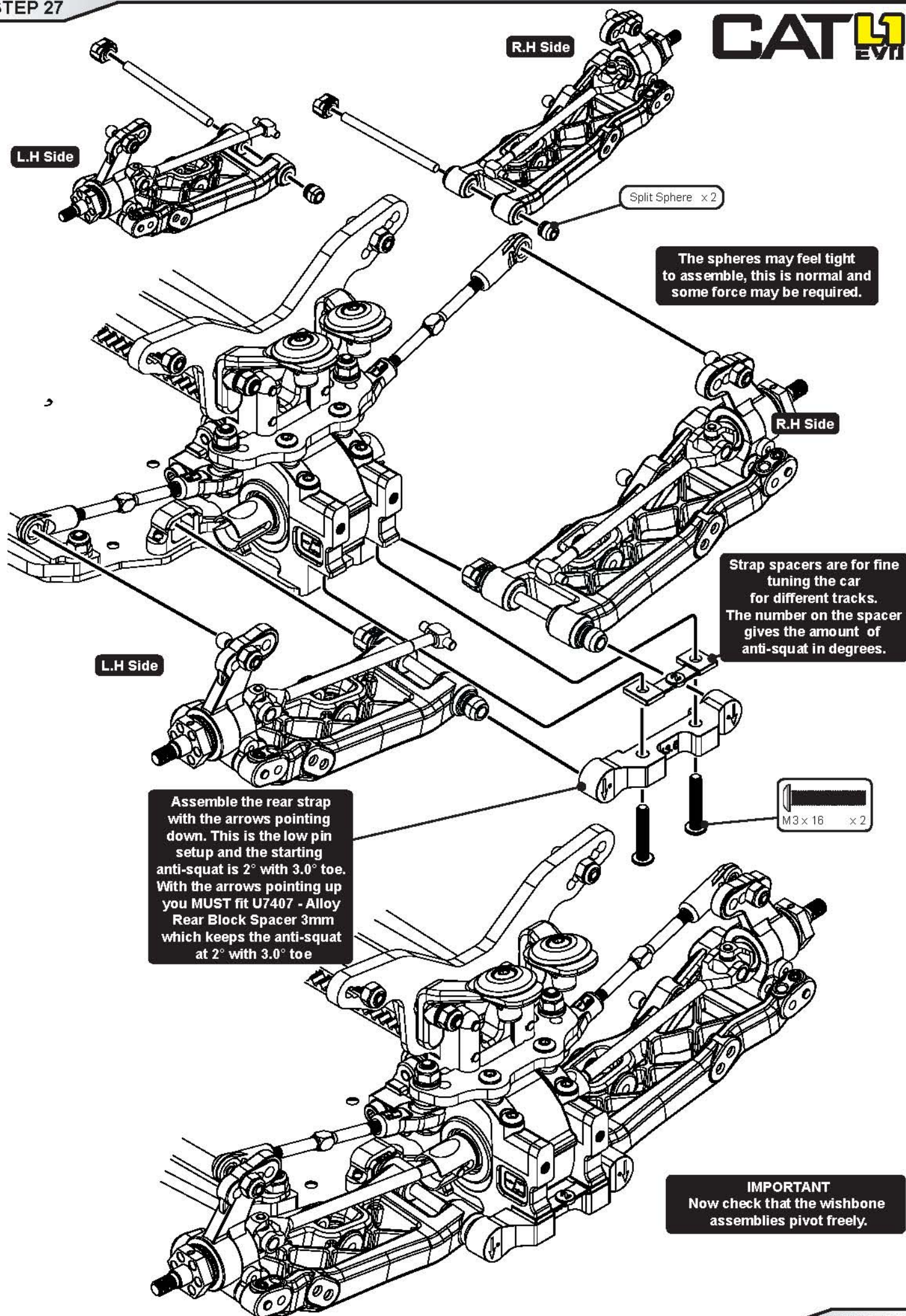
# STEP 25



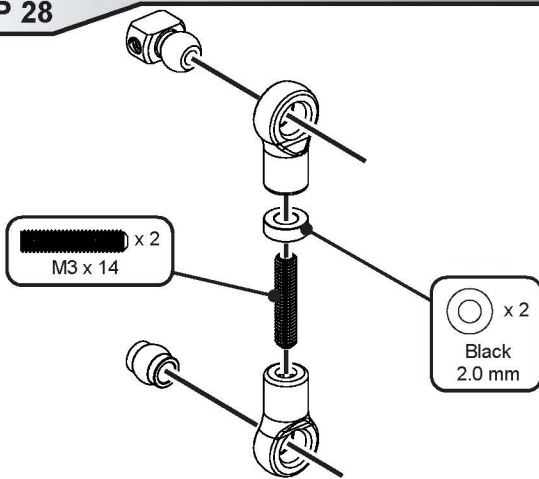
# STEP 26



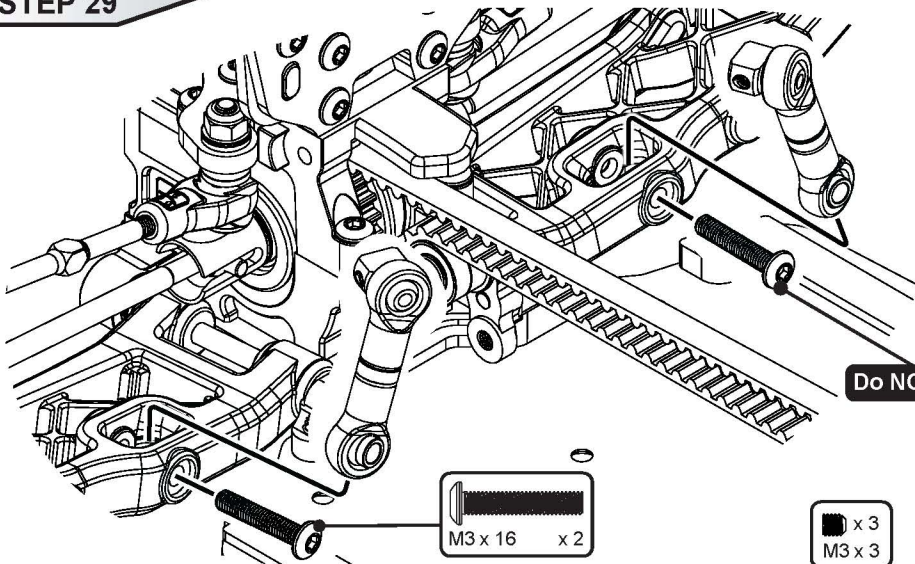
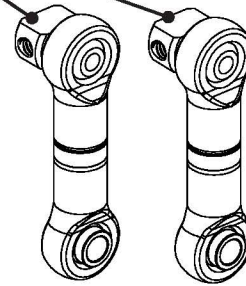




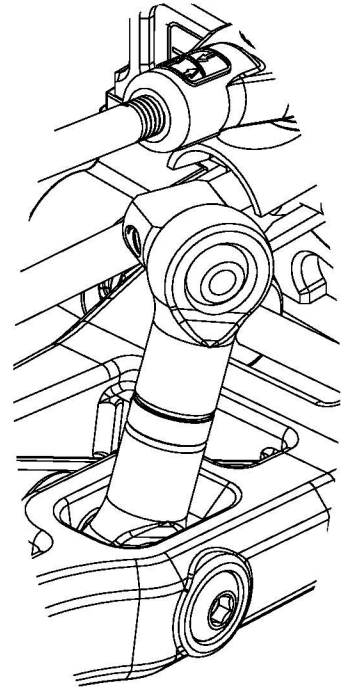




**REAR LINKS**  
Make two identical links

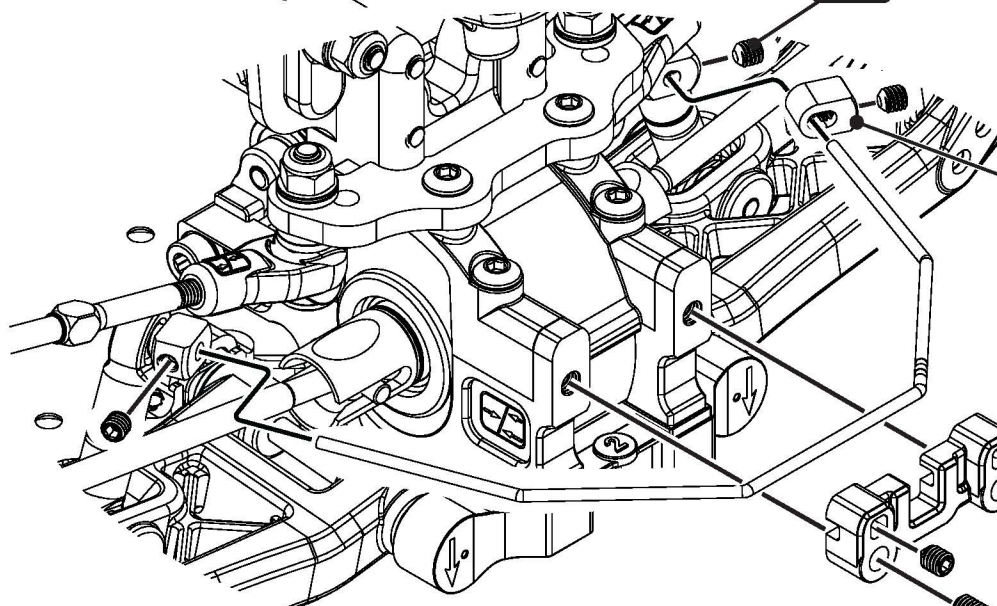


Do NOT overtighten



Slide the collar to the centre then tighten the grub screw.

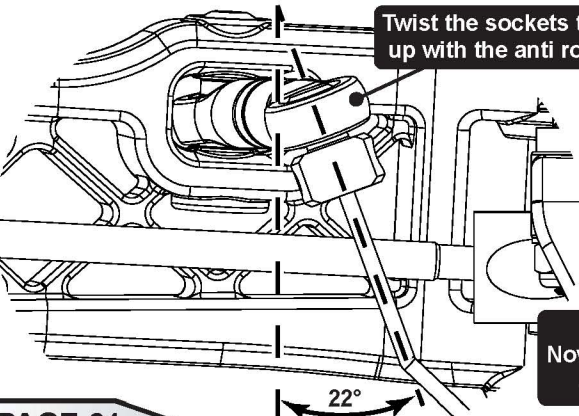
Carefully adjust the grub screw to eliminate anti roll bar clearance.



Twist the sockets to line up with the anti roll bar.

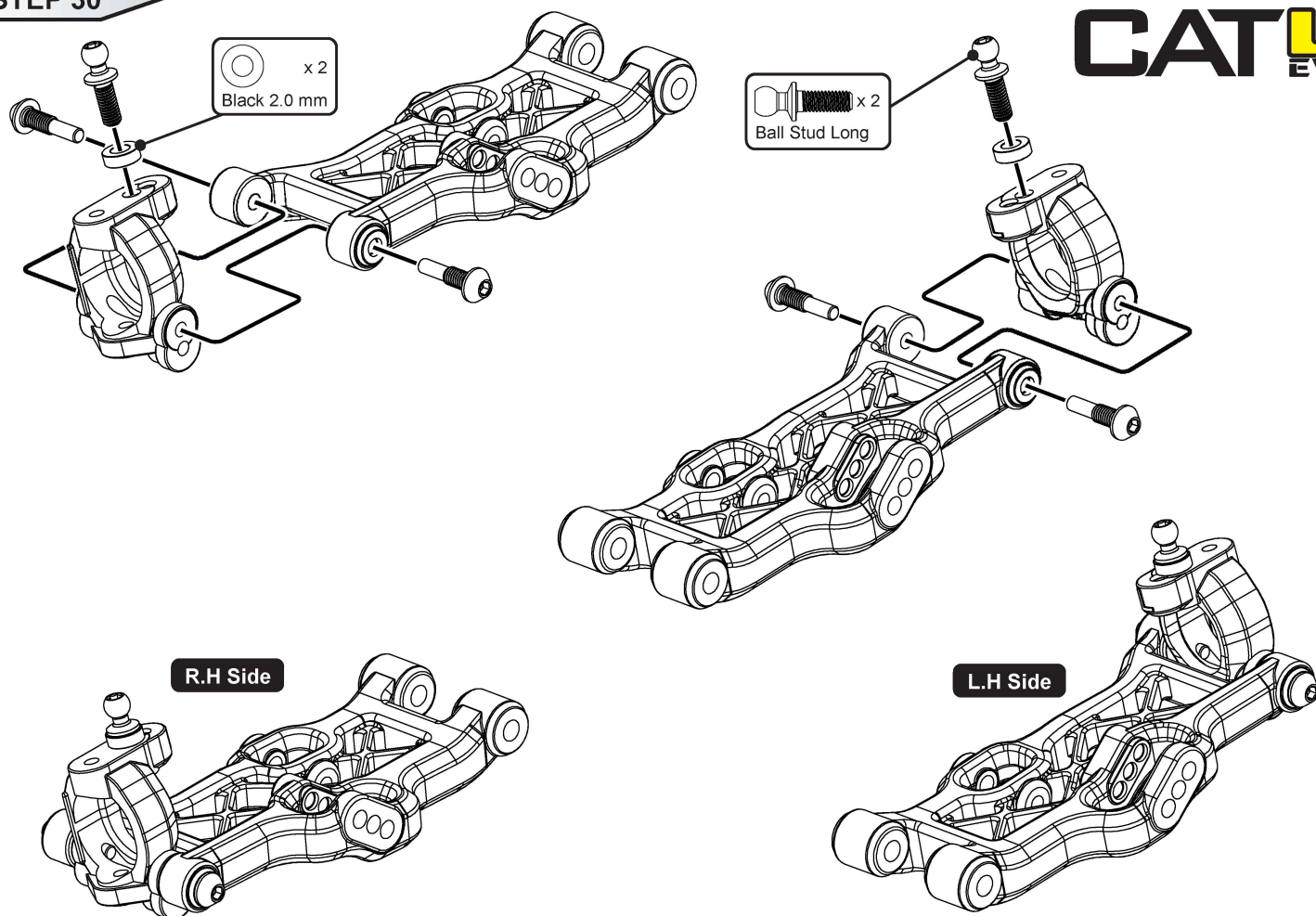
M3 x 8 x 2

**IMPORTANT**  
Now check that the wishbone assemblies pivot freely.



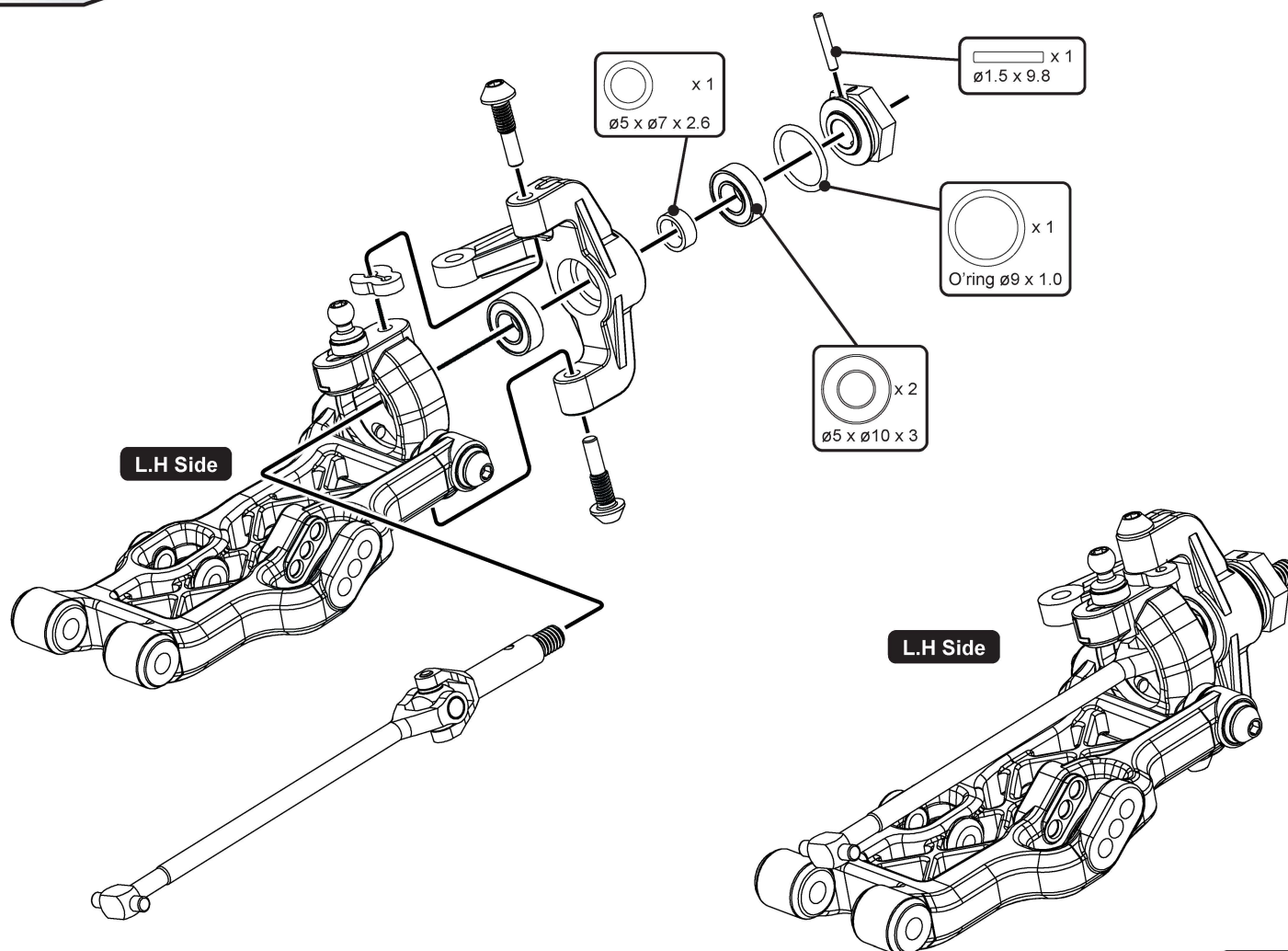


## STEP 30

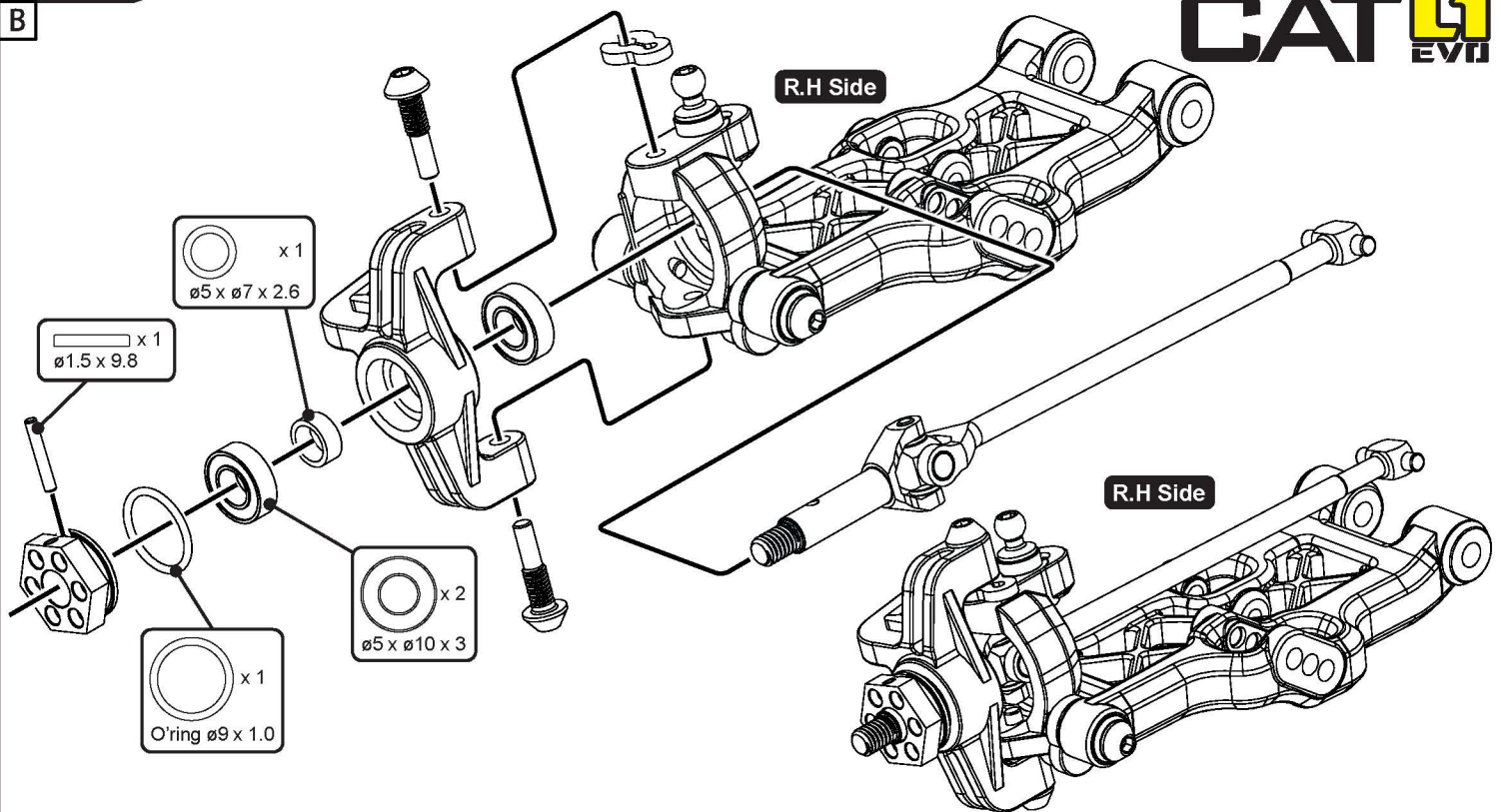


## STEP 31

**A**

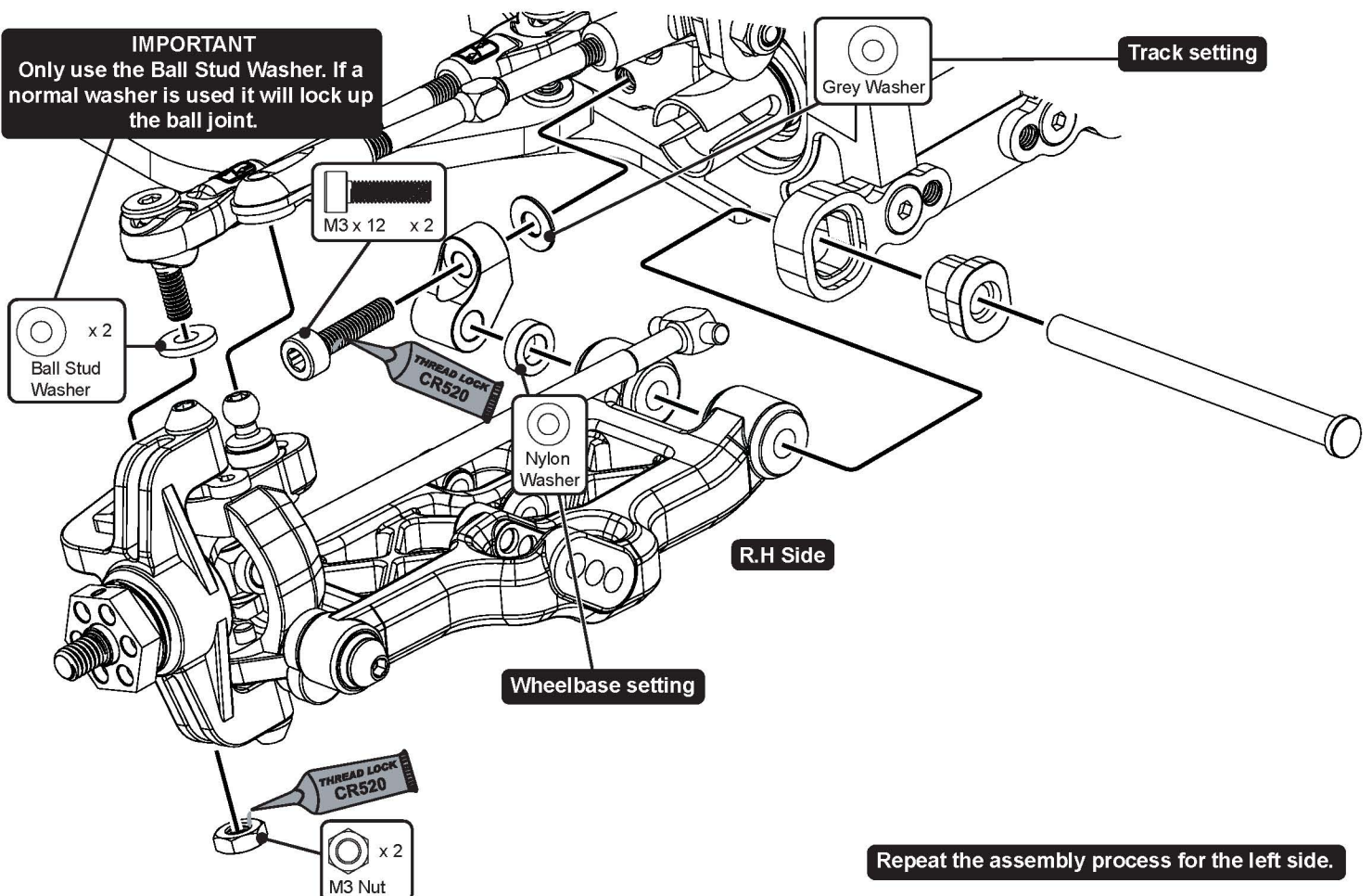


## B



## A

**Only use the Ball Stud Washer. If a normal washer is used it will lock up the ball joint.**

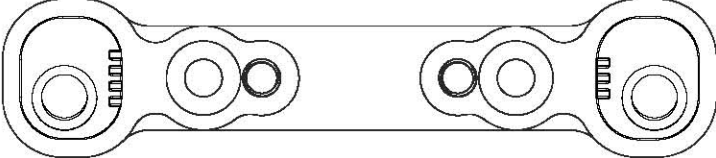
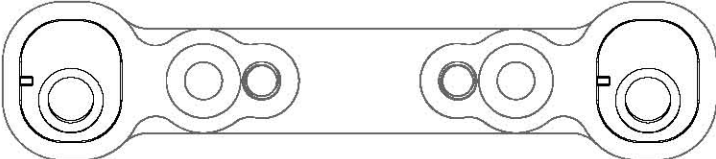
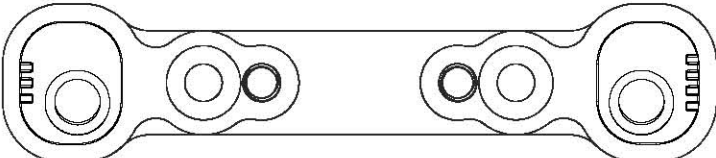
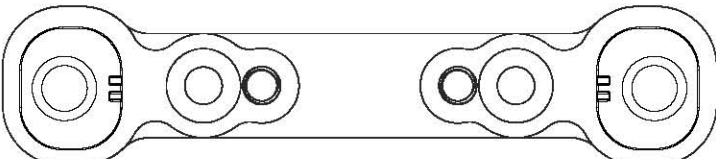

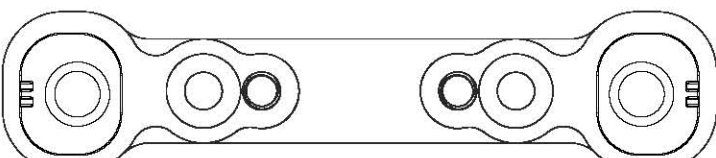
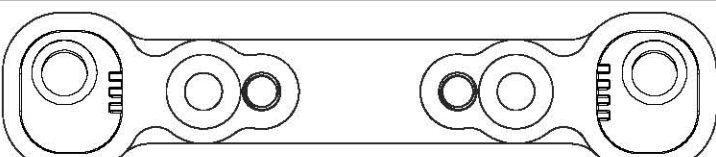
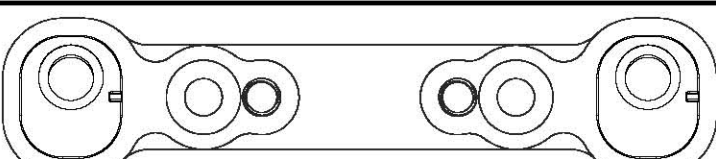
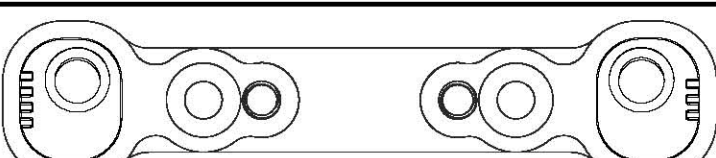


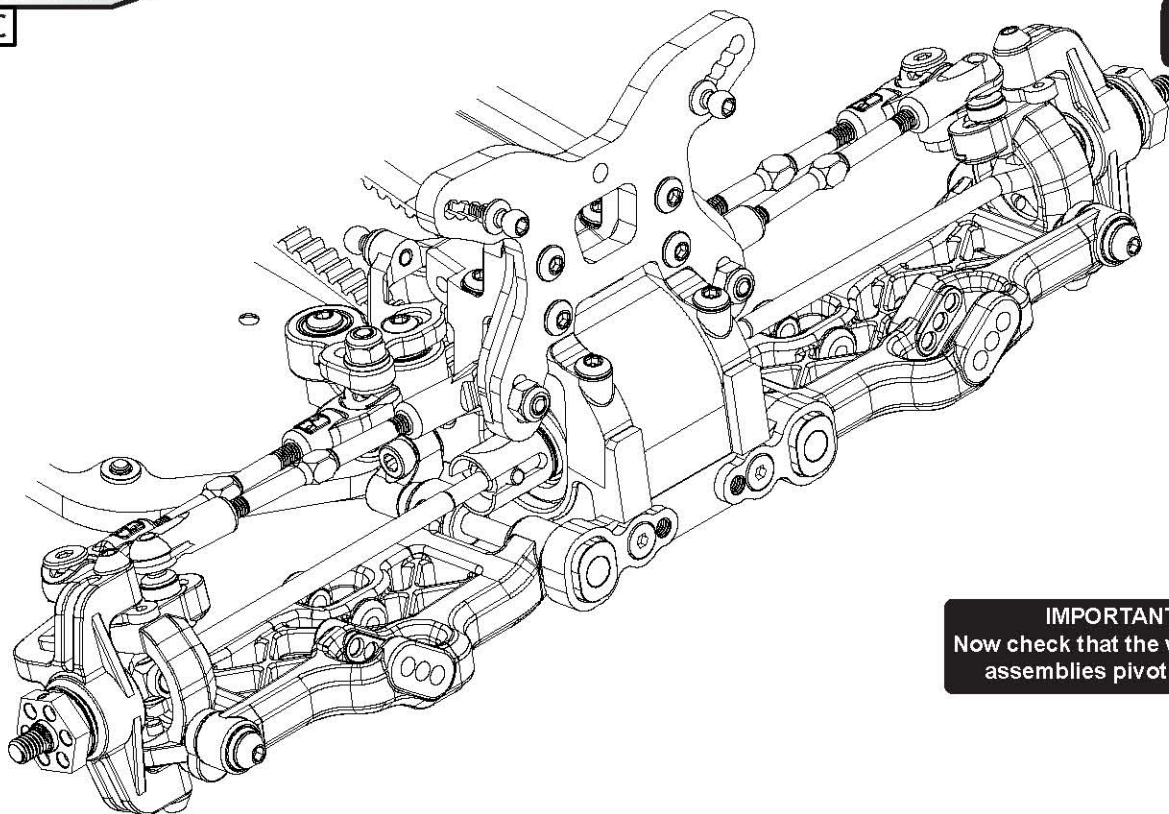
**Repeat the assembly process for the left side.**



The chart below shows all the suspension insert options.

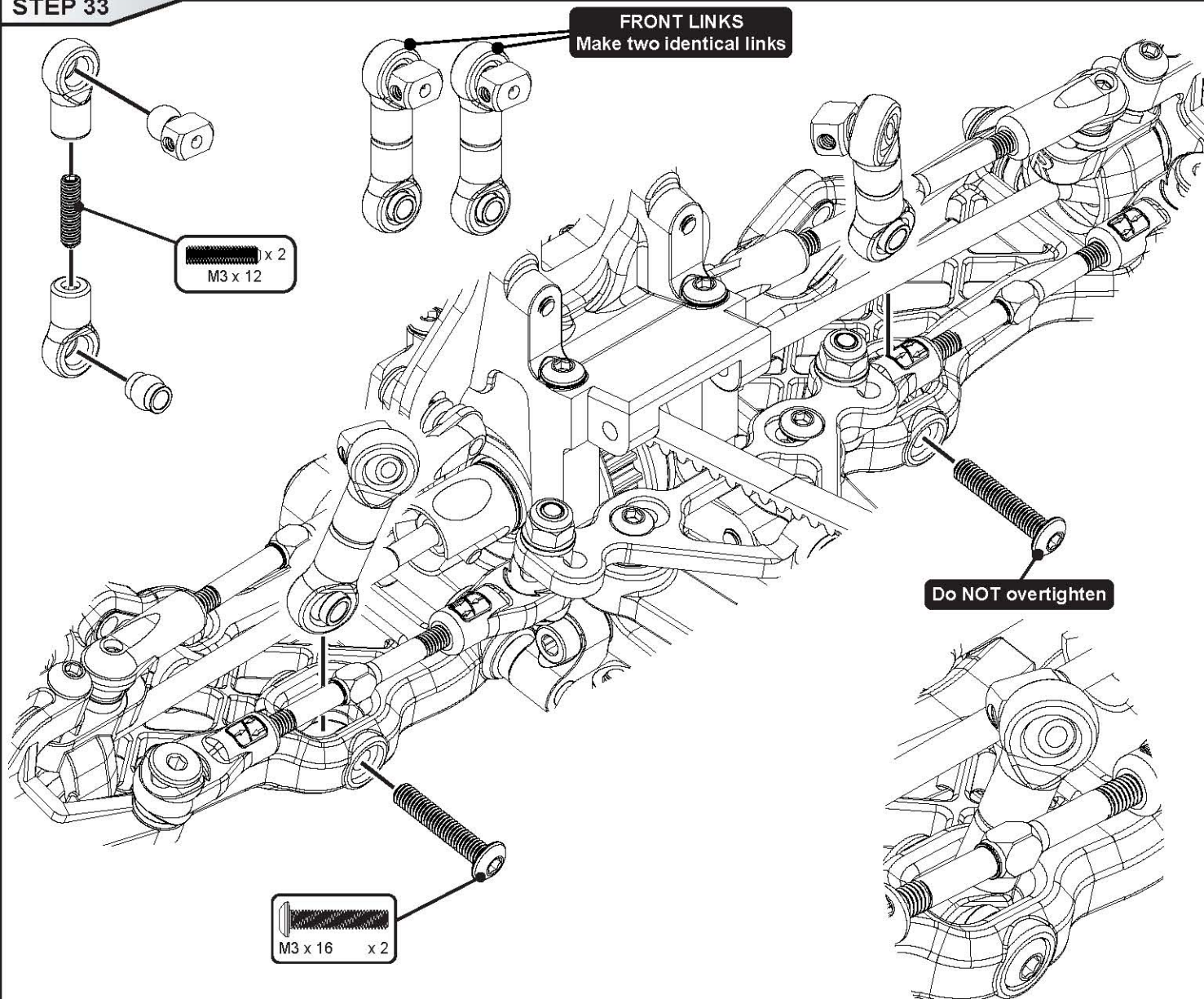
You must ensure that whichever insert option you choose, the wheelbase washer and the track washer match.

Front view of strap and inserts	Suspension Setting	Wheelbase Washer	Track Washer
	8° Rake Wide Track	2.00mm Black + 0.80mm White	1mm
	8° Rake Mid Track	2.00mm Black + 0.80mm White	0.50mm
	8° Rake Narrow Track	2.00mm Black + 0.80mm White	No washer
	10° Rake Wide Track	2.40mm White	1mm
	10° Rake Mid Track	2.40mm White	0.50mm
	10° Rake Narrow Track	2.40mm White	No washer
	12° Rake Wide Track	2.40mm White	1mm
	12° Rake Mid Track	2.40mm White	0.50mm
	12° Rake Narrow Track	2.40mm White	No washer

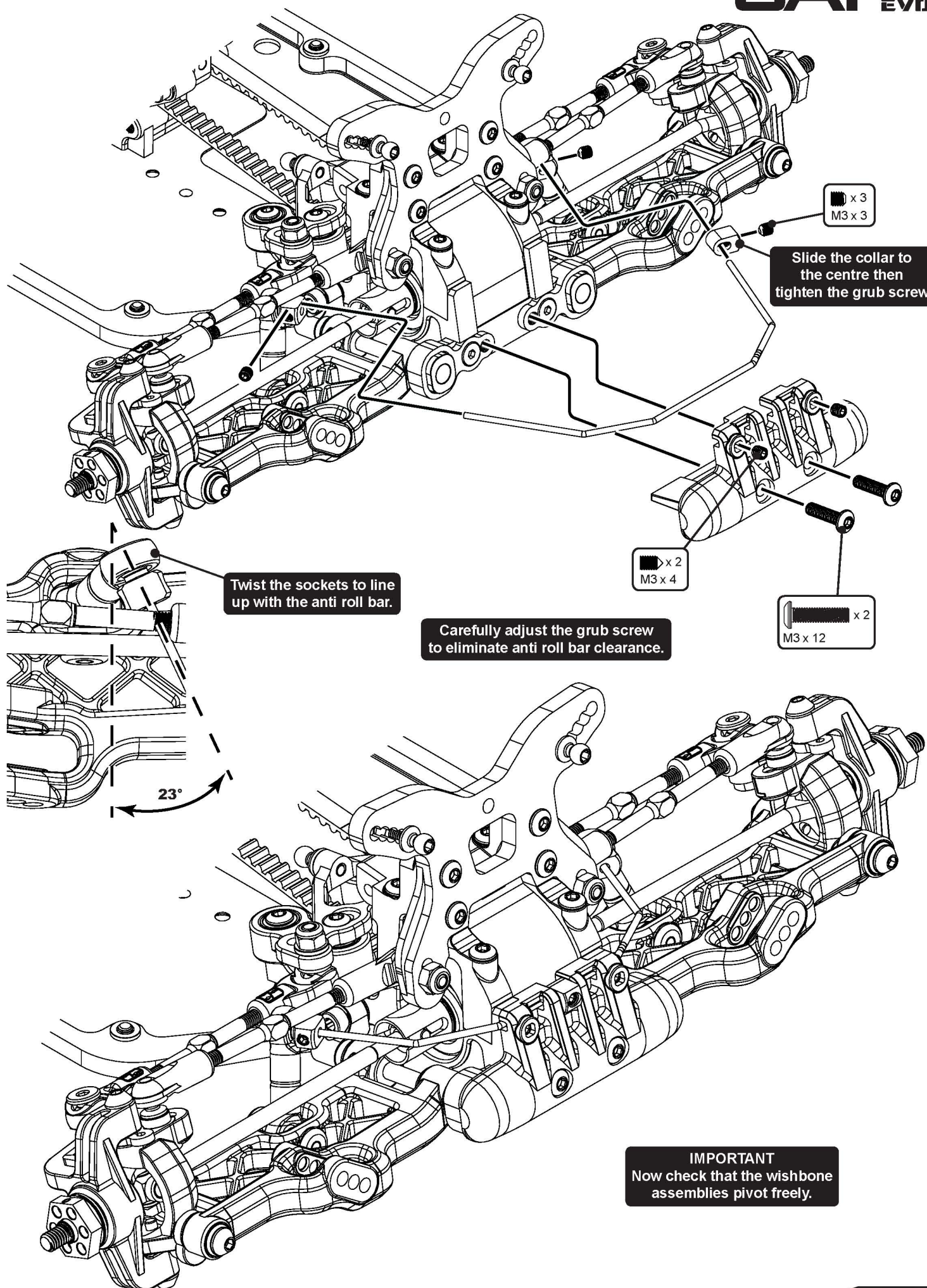


**IMPORTANT**  
Now check that the wishbone  
assemblies pivot freely.

## STEP 33









**ELECTRIC - OFF ROAD CARS**

K183 CAT L1 Evo - Kit

**CHASSIS PARTS**

U119 Aerial Tube - Pack 4  
 U122 Velcro 1/2metre x 16mm.  
 U4741 6mm Offset Servo Arms  
 U4765 Lipo Post Nut - CAT K2 - (2pcs)  
 U4773 Aerial Mount - CAT K2  
 U4778 LiPo Stops - CAT K2 - (4pcs)  
 U7045 Lipo Posts Standard - Cougar KC/D  
 U7046 Lipo Posts Short - Cougar KC/D  
 U7335 Wire Clamp Mouldings - CAT L1 (3pcs)  
 U7336 Front Bumper - CAT L1  
 U7339 Front Carpet Protector - CAT L1  
 U7351 Chassis Skin - CAT L1  
 U7376 C/F Rear Link Mount - CAT L1  
 U7379 C/F Lipo Straps - CAT L1 (pr)  
 U7380 C/F ESC Tray - CAT L1  
 U7381 C/F Receiver Tray - CAT L1  
 U7382 C/F Servo Mount - CAT L1  
 U7437 S2 Rear Shock Mount - CAT L1  
 U7438 S2 Front Shock Mount - CAT L1  
 U7685 C/F HD Front Top Decks 2.5mm - CAT L1 pr  
 U7686 C/F HD Centre Top Decks - CAT L1 pr  
 U7687 C/F HD Rear Top Decks 2.5mm - CAT L1 pr  
 U7849 Alloy Servo Post - Mi7  
 U7952 Wing Mouldings - CAT L1 EVO  
 U7953 Manual - CAT L1 EVO  
 U7957 Alloy Chassis - CAT L1 EVO  
 U7973 S2 Side Pod - CAT L1 EVO (pr)  
 U7974 S2 LiPo Locator - CAT L1 EVO (pr)

**BODYSHELLS AND DECALS**

AX004 Aerox Body Shell CAT L1 - 0.75mm  
 AX005 Aerox Wing CAT L1 - 1.0mm  
 AX006 Aerox Body Shell CAT L1 Ultra Light - 0.5mm  
 PCB002 Penguin CAT L1 Body + Mask  
 PCB003 Penguin CAT L1 EVO Body + Mask - 0.5mm  
 PCB004 Penguin CAT L1 EVO Body + Mask - 0.75mm  
 U3478 Decal sheet - Schumacher and racing-cars.com (pk3)  
 U5130 Claw Wing & Insert - White  
 U7954 Decals - CAT L1 EVO Pre-cut

**SUSPENSION**

U3305 Pivot Pin; Screw Type 12mm pr  
 U3708 Quick Clips 2.4 x 2.0mm (pk4) - 2WD/4WD  
 U3719 Pivot Pin; 45mm - Cougar SV  
 U3729 WishbonePivot Spheres - Cougar SV pk4  
 U4221 Tumbuckle Adjuster HTT - 24mm - pr  
 U4223 Tumbuckle Adjuster HTT - 45mm - pr  
 U4274 Pro Ball Stud Short - pk4  
 U4275 Pro Ball Stud Long - pk4  
 U4299 Tumbuckle HT - 52mm - pr  
 U4704 Fluted Ball Grippa - Grey (pk8)  
 U4736 Ball Stud Washer -CAT K2 - (8pcs)  
 U4737 Captive Ball Joint Short - CAT K2 - (4pcs)  
 U4738 Captive Ball Joint long - CAT K2 - (4pcs)  
 U4850 Low Ball Stud (pk4) - Atom/Eclipse  
 U7083 Rear Strap Spacers - Cougar KC/D  
 U7133 Quik Clips 2.4x1.5mm (pk4) - 2WD/4WD  
 U7337 Radius Arms - CAT L1 (pr)  
 U7352 Alloy Centre Track Rod - CAT L1  
 U7353 Front Strap Inserts - CAT L1 (8pcs)  
 U7354 Alloy Front Strap - CAT L1  
 U7355 Alloy Servo Mount - CAT L1  
 U7367 Rod End Ball Wide & Socket - CAT L1 (pr)  
 U7368 Rear Outboard Pivot Pin - CAT L1 (pr)  
 U7369 Front Inboard Pivot Pin - CAT L1 (pr)  
 U7370 Front Pivot Block - CAT L1  
 U7371 Alloy Rear Pivot Strap 43.6mm - CAT L1  
 U7384 Rear ARB Clamp - CAT L1  
 U7385 Alloy Roll Bar Ball (Dia 5.5mm) - CAT L1 (pr)  
 U7431 Rod End Socket (Dia 5.5mm) (pk4)  
 U7628 Rear Toe-In Inserts - Cougar-Laydown (8prs)  
 U7659 ARB Mounting Collar - Cougar-Laydown  
 U7948 Rear Hub Carrier - CAT L1 EVO (pr)

**SUSPENSION CONT....**

U7949 Front Hub Carriers - CAT L1 EVO  
 U7969 Alloy RF Strap - CAT L1 EVO  
 U7971 Alloy Steering Pivot and Spacer - CAT L1 EVO (pr)  
 U7986 Front Wishbones Med Flex - CAT L1 and L1 EVO  
 U7987 Rear Wishbones Med Flex - CAT L1 and L1 EVO  
 U7988 Yokes Med Flex 10 Deg - CAT L1 and L1 EVO

**BIG BORE SHOCKS**

RI-29101 Ride Shock Air Remover - Long  
 U3667 Big Bore Shock; Rebuild Kit - Off Rd pk4  
 U3670 Big Bore Piston; 2 Hole White 1.5 (pr)  
 U3671 Big Bore Piston; 4 Hole White 1.5 (pr)  
 U3672 Big Bore Piston; 6 Hole White 1.5 (pr)  
 U3770 Big Bore Piston; 3 Hole White 1.5 Rounded (pr)  
 U3771 Big Bore Piston; 5 Hole White 1.5 Rounded (pr)  
 U4110 Off Road Shock O Ring 1/8 Silicone Pk 8  
 U4285 Pro Shock Seal Blue - On Road - pk8  
 U4451 Big Bore Shock Collar O-ring - pk4  
 U4508 Big Bore Pro Bush - Off Road  
 U4701 Big Bore Piston - 3 Hole Black 1.6 Rounded (pr)  
 U4702 Shock Seal Housing V2 - Big Bore - (pr)  
 U4707 Short Ball Grippa - Grey (pk8)  
 U7084 Shock Top Ring (pr) - Cougar KC/D  
 U7085 Shock Top (pr) - Cougar KC/D  
 U7086 Big Bore Piston - 2 Hole Black 1.60 (pr)  
 U7087 Big Bore Piston - 2 Hole Red 1.70 (pr)  
 U7388 Alloy Med Shock Body - CAT L1 (pr)  
 U7389 Alloy Long Shock Body - CAT L1 (pr)  
 U7390 Alloy Spring Adjuster - CAT L1 (pr)  
 U7433 Big Bore Piston - Blank Tapered (pr)  
 U7434 Alloy Med Shock Body Kashima Coat - CAT L1 (pr)  
 U7435 Alloy Long Shock Body Kashima Coat - CAT L1 (pr)  
 U7632 Tapped Shock Shaft; Med - Off Road (pr)  
 U7633 Tapped Shock Shaft; Long - Off Road (pr)  
 U7625 Spring Hanger Low - (pr)  
 U7626 Spring Hanger High - (pr)  
 U7630 Shock Piston Support - Cougar-Laydown (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  
 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 - 12000cSt - 60ml  
 CR230 CORE RC Silicone Oil - 15000cSt - 60ml  
 CR502 CORE RC Silicone Oil - 650cSt - 60ml

**BIG BORE SPRINGS**

CR177 CORE RC Big Bore Spring Tuning Set; Med 7prs  
 CR178 CORE RC Big Bore Spring Tuning Set; Long 7prs  
 CR179 Big Bore Spring; Med White - 2.8 pr  
 CR180 Big Bore Spring; Med Red - 3.1 pr



**BIG BORE SPRINGS CONT....**

CR181	Big Bore Spring; Med Green - 3.4 pr
CR182	Big Bore Spring; Med Blue - 3.7 pr
CR183	Big Bore Spring; Med Black - 4.0 pr
CR184	Big Bore Spring; Long White - 1.8 pr
CR185	Big Bore Spring; Long Red - 2.0 pr
CR186	Big Bore Spring; Long Green - 2.2 pr
CR187	Big Bore Spring; Long Blue - 2.4 pr
CR188	Big Bore Spring; Long Black - 2.6 pr
CR635	Big Bore Spring; Med Orange - 4.3 pr
CR636	Big Bore Spring; Med Yellow - 4.6 pr
CR699	Big Bore Spring; Long Orange - 2.8 pr
CR700	Big Bore Spring; Long Yellow - 3.0 pr
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
U3684	Big Bore Spring; Long - 2.5 pr

**TRANSMISSION**

U2761	Diff Shims; 10x12x0.2 (pk8)
U3311	Axle Spacers 5x7- 2prs
U3351	Gear; 83t Spur - Slipper
U3364	Slipper Pad; PTFE Octagon pr
U4106	Slipper Spring
U4176	Gear Diff Gear Set - K1/KF
U4385	Gear Diff Rebuild Kit - KR/Laydown
U4672	Alloy Outer Slipper Plate - KF2
U4674	Slipper Spring Bush - KF2
U4705	Alloy Inner Slipper Plate - KF2
U4712	Gear Diff O-Rings
U7061	Reverse Gear - Cougar KC
U7062	Reverse Post - Cougar KC
U7065	Slipper Spring Twin Plate - 2WD/4WD
U7066	Diff Output Pin (pr) - Cougar KC
U7068	Eccentrics - Cougar KC (2 prs)
U7338	Dirt Covers - CAT L1 (3pcs)
U7340	Side Gear Cover - CAT L1
U7341	Alloy LH Lower Rear Trans - CAT L1
U7346	Alloy LH Lower Front Trans - CAT L1
U7347	Alloy RH Lower Front Trans - CAT L1
U7358	20T Side Gear - CAT L1
U7361	Layshaft Spacer - CAT L1
U7364	FAB Side Fence RH - CAT L1
U7365	FAB Side Fence LH - CAT L1
U7366	FAB Washer - CAT L1 (pr)
U7391	Gear Diff Output - CAT L1
U7394	Front Belt Tensioner - CAT L1
U7396	Rear Driveshaft - CAT L1 (pr)
U7397	Front Driveshaft - CAT L1 (pr)
U7398	Alloy Wheel Hex 6mm - CAT L1 (pr)
U7624	Diff Cross Pin - Cougar-Laydown
U7947	Diff Mouldings - CAT L1 EVO
U7950	Upper Front Trans - CAT L1 EVO
U7951	Upper Rear Trans - CAT L1 EVO
U7955	Belt Polyurethane 97T x 5mm Wide
U7956	Belt Polyurethane 155T x 5mm Wide
U7958	Tensioner Post - CAT L1 EVO (pr)
U7959	FAB Shaft - CAT L1 EVO
U7960	Layshaft - CAT L1 EVO
U7961	22T Front Pulley - CAT L1 EVO
U7962	22T Rear Pulley - CAT L1 EVO
U7963	FAB Side Gear - CAT L1 EVO
U7964	Laymount - CAT L1 EVO
U7965	Motor Mount - CAT L1 EVO
U7966	Alloy Lower RH Rear Trans - CAT L1 EVO
U7968	Rear Belt Tensioner - CAT L1 EVO
U7980	0.5mm 20T Bevel Gear Shim - CAT L1 EVO (pk4)

**PINIONS**

CRW2001	Pinion Caddy
U7517	Pinion; Long Boss Steel 48dp - 17T
U7518	Pinion; Long Boss Steel 48dp - 18T
U7519	Pinion; Long Boss Steel 48dp - 19T

**PINIONS CONT....**

U7520	Pinion; Long Boss Steel 48dp - 20T
U7521	Pinion; Long Boss Steel 48dp - 21T
U7522	Pinion; Long Boss Steel 48dp - 22T
U7523	Pinion; Long Boss Steel 48dp - 23T
U7524	Pinion; Long Boss Steel 48dp - 24T
U7525	Pinion; Long Boss Steel 48dp - 25T
U7526	Pinion; Long Boss Steel 48dp - 26T
U7527	Pinion; Long Boss Steel 48dp - 27T

**BEARINGS AND BALLS**

G200	ZX1 - Microlube
H1031	Bearing Blaster Aerosol 500ml
U1300	Axle Grease - Pot
U1301	Silicone Diff Lube - Pot
U1957	Moly Grease - Pot 5ml
U2698	Ball Bearing - 5x10x4 Red Seal - (pr)
U2699	Ball Bearing - 10x15x4 Red Seal - (pr)
U3075	Ball Bearing - 4x8x3mm Red Seal - (pr)
U3136	Ball Bearing - 5x8x2.5 - Shield (pr)
U3871	Ball Bearing - 5x9x3 Red Seal - (pr)
U4318	Ball Bearing - 5x10x3 Red Seal - (pr)
U4726	Pro Ball Bearing - 5x10x3 Shield - (pr)
U4946	Pro Ball Bearing 5 x 10 x 4 sealed - pr
U7088	Ball Bearing 5x10x4 Red Seal FL - (pr)
U7288	Pro Layshaft Bearing Set (pr) - Mi6
U7325	Pro-Ball Bearing 5x11x4 Sealed - pr
U7328	Ball Bearing - 5 x 11 x 4 Red Seal - (pr)
U7704	L1 EVO Bearing set - 33pcs
U7725	Pro-Ball Bearing 10x15x4 Sealed - (pr)
U7727	Pro-Ball Bearing 5x10x4 Flanged Sealed - (pr)
U7729	Pro-Ball Bearing 5x9x3 Sealed - (pr)
U7730	Pro-Ball Bearing 4x8x3 Sealed - (pr)

**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; Violet pk 4
CR060	Small Body Clip 1/10 - Gloss Black (8)
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)
CR196	CORE RC - Serrated Alloy M4 Nuts - Black - pk4
CR304	Titanium Wheel Nuts M4 - pk4
CR638	Rubber Body Clip Pulls - pk12
U1552	SPEED PACK - R Clips
U1606	SPEED PACK - Servo Tape - 30pk
U1633	SPEED PACK - Small Pins (pk)
U1960	SPEED PACK - O Rings; Various
U2128	SPEED PACK - Grub-Set Screws M3 M4
U2187	SPEED PACK - M3 Nyloc Nut - Purple Alloy (pk8)
U2856	SPEED PACK - Sticky Cable Clips (pk10)
U2857	SPEED PACK - Small Cable Ties (pk25)
U3021	SPEED PACK - M3x6 Csk Hd - (pk10)
U3022	SPEED PACK - M3x8 Csk Hd - (pk10)
U3023	SPEED PACK - M3x10 Csk Hd - (pk10)
U3131	SPEED PACK Alloy Spacers - M3x7mm 0.5;1;2mm (pk18)
U3572	SPEED PACK - M3x14 Grub Screw pk4
U3754	SPEED PACK - M2.5x10 Csk Hd pk8
U4124	SPEED PACK - Shims 5 x 7 x 0.4mm - pk6
U4155	SPEED PACK - M3 Csk Washers - Black Alloy (pk10)
U4210	SPEED PACK - Pinion Grub Screw Set pk10
U4220	'O' Ring 9.0x1.0 (pk10)
U4241	SPEED PACK - M3 Alloy Nyloc Nuts - Black - pk10
U4314	SPEED PACK - Alloy Black M3 Washers - 18pc
U4650	SPEED PACK - M3 Nyloc Nut Steel - Black (10pcs)
U4662	SPEED PACK - M3x4 Grub Screw - Cone Point (10pcs)
U4835	SPEED PACK - M3 Steel Nut Black (pk8)
U4987	SPEED PACK Needle Roller 1.5x11.8 (pk8)
U7090	SPEED PACK - M4x20 Grub Screw (pk4)
U7102	SPEED PACK - M3x4 Button Hd (pk10)
U7103	SPEED PACK - M3x6 Button Hd (pk10)
U7104	SPEED PACK - M3x8 Button Hd (pk10)



**SPEED PACKS CONT....**

U7105	SPEED PACK - M3x10 Button Hd (pk10)
U7106	SPEED PACK - M3x12 Button Hd (pk10)
U7107	SPEED PACK - M3x16 Button Hd (pk10)
U7108	SPEED PACK - M3x20 Button Hd (pk10)
U7109	SPEED PACK - M3x25 Button Hd (pk10)
U7112	SPEED PACK - M3x8 Cap Hd (pk10)
U7113	SPEED PACK - M3x10 Cap Hd (pk10)
U7114	SPEED PACK - M3x12 Cap Hd (pk10)
U7122	SPEED PACK - M3x12 Csk Hd (pk10)
U7223	SPEED PACK M3 X 12 Grub (pk10)
U7331	SPEED PACK - M3 X 30 Button Hd (pk10)
U7332	SPEED PACK WASHERS Dia 3.5 x 2.0 & 2.4mm (pk10)
U7611	SPEED PACK - M3x14 Button Hd (pk10)
U7677	SPEED PACK - M2.5x8 Csk Hd (pk10)
U7689	M3 Brass Inserts - pk10
U7699	Foam Strips 40 x 6 x 2mm thk - pk20
U7707	M3 Steel Washers (pk10)
U7709	M3 Black Alloy Washers 0.75mm (pk10)
U7710	M3 Black Alloy Washers 1.00mm (pk10)
U7711	M3 Black Alloy Washers 2.00mm (pk10)
U7791	SPEED PACK M2.5 x 4 CSK (pk4)
U7900	SPEED PACK Needle Roller 1.5x9.8 (pk10)
U7970	M2.5 Thread Insert (pk10)

**SPEED SECRET - OPTION PARTS**

CR280	Ti Pro Ball Studs - Short - (pr)
CR282	Ti Pro Ball Studs - Long - (pr)
CR697	Alloy Servo Arm Offset Short - 25T Futaba
CR698	Alloy Servo Arm Offset Short - 23T SANWA
KRC-CLEAR	Klinik RC Premium Clear Shock O-Rings (8)
KRC-INSERTS	Klinik RC M3 Thread Repair Inserts (10)
KRC-M3REPAIR	Klinik RC M3 Thread Repair Kit with Drill Bit (10)
U3348	Gear, CNC 80t Spur - Slipper
U3350	Gear, CNC 82t Spur - 2/4 Plate Slipper
U4177	Gear Diff Rebuild Kit - K1/KF/Laydown
U4350	Shims 5x7x0.1mm - pk8
U4890	Alloy Spring Seat - Off Road - pr
U7093	Front Wings - Cougar KC/D
U7313	Titanium Turnbuckle - 24mm - Silver - pr
U7317	Titanium Turnbuckle - 45mm - Silver - pr
U7318	Titanium Turnbuckle - 53mm - Silver - pr
U7321	Gear Diff Alloy Cross Pin - KD/KC/K2 - pr
U7333	Rear Wishbones - CAT L1 (pr)
U7334	Front Wishbones - CAT L1 (pr)
U7338	Dirt Covers - CAT L1 (3pcs)
U7342	Alloy LH Upper Rear Trans - CAT L1
U7348	Alloy LH Upper Front Trans - CAT L1
U7349	Alloy RH Upper Front Trans - CAT L1
U7373	C/F Side Pod - CAT L1 (pr)
U7377	C/F Front Shock Mount - CAT L1
U7378	C/F Rear Shock Mount - CAT L1
U7383	C/F Shorty Spacer - CAT L1 (pr)
U7386	Front Roll Bar Set - CAT L1 (7pcs)
U7387	Rear Roll Bar Set - CAT L1 (8pcs)
U7393	Front Yokes 10 Deg - CAT L1 (pr)
U7400	Titanium Low Profile M4 Serrated Nut (pk4)
U7401	Roche Double Jointed Front D/Shaft - CAT L1 (pr)
U7402	Alloy Wheel Hex 6.75mm - CAT L1 (pr)
U7403	Alloy Wheel Hex 7.5mm - CAT L1 (pr)
U7404	Alloy Radius Arms - CAT L1 (pr)
U7405	Titanium Front Inboard Pivot Pin - CAT L1 (pr)
U7406	Titanium Rear Inboard Pivot Pin - CAT L1 (pr)
U7408	Alloy Rear link Mount - CAT L1
U7412	Alloy Rear Hub Carriers - Off Road (pr)
U7413	Alloy Yoke 8 Deg - CAT L1 (pr)
U7414	Alloy Yoke 12 Deg - CAT L1 (pr)
U7415	Brass ESC Tray - CAT L1
U7416	Brass Receiver Tray - CAT L1
U7417	83T 3 Plate Slipper Spur Gear
U7418	3 Plate Slipper Clutch Conversion KC/KD/L1
U7419	Titanium M4 x 20 Grub Screw (pr)
U7424	Alloy Lightweight LiPo Nut - (pr)
U7425	3 Plate Slipper Alloy Disk
U7429	Front Wing Mount Mouldings - CAT L1
U7443	Alloy Yoke 10 Deg - CAT L1 (pr)
U7444	Alloy Hub Carrier Inserts - pr

**SPEED SECRET - OPTION PARTS CONT....**

U7449	Alloy Chassis Extra Flex - CAT L1
U7472	Captive Ball Joint Ti - Short - pr
U7473	Captive Ball Joint Ti - Long - pr
U7490	C/F Wishbones Rear - CAT L1 (pr)
U7491	C/F Wishbones Front - CAT L1 (pr)
U7492	C/F Front Bumper - CAT L1
U7615	80T 2,3,4 Plate Slipper Spur Gear
U7616	78T 2,3,4 Plate Slipper Spur Gear CNC
U7646	Alloy Wheel Hex (-0.75) - Cougar-Laydown (pr)
U7683	C/F HD Front Top Decks 3.0mm - CAT L1 pr
U7684	C/F HD Rear Top Decks 3.0mm - CAT L1 pr
U7967	Alloy Upper RH Rear Trans - CAT L1 EVO
U7972	C/F 2.0mm Rear Trans Spacer - CAT L1 EVO
U7975	Alloy Eccentric Mid - KC,KD,LD,L1 & LE EVO (pr)
U7976	Alloy Eccentric Hi-Lo - KC,KD,LD,L1 & L1 EVO (pr)
U7977	C/F RF Strap Spacer - CAT L1 EVO
U7978	Brass Front Strap - CAT L1 EVO
U7979	Alloy Diff Conversion - CAT L1 EVO
U7981	C/F Diff Mouldings - CAT L1 EVO
U7982	Alloy Spring Seat High - Off Road (pr)
U7983	S2 2.0mm Front Topdeck - CAT L1 EVO (pr)
U7984	Alloy LiPo Posts Short - KC,KD,LD,L1 & L1 EVO (pr)
U7985	Alloy LiPo Post Spacer - KC,KD,LD,L1 & L1 EVO (pk4)
U7989	Titanium Layshaft Lockout - CAT L1 EVO
U7990	Alloy Thrust Plate Lockout - CAT L1 EVO
U7991	Layshaft Lockout Conversion (Stock) - CAT L1 EVO
U7992	Alloy Diff Complete - CAT L1 EVO

**TEAM MERCHANDISE**

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
G345L	Schumacher Retro T Shirt - Large
G345M	Schumacher Retro T Shirt - Medium
G345S	Schumacher Retro T Shirt - Small
G345XL	Schumacher Retro T Shirt - X-Large
G345XXL	Schumacher Retro T Shirt - XX-Large
G345XXXL	Schumacher Retro T Shirt - XXX-Large
G346L	Schumacher Retro T Shirt - XXXX-Large
G346M	Schumacher Gilet - Frost Grey - Large
G346S	Schumacher Gilet - Frost Grey - Medium
G346XL	Schumacher Gilet - Frost Grey - Small
G346XXL	Schumacher Gilet - Frost Grey - X-Large
G347L	Schumacher Gilet - Frost Grey - XX-Large
G347M	Schumacher Arrows" T-Shirt - Large"
G347S	Schumacher Arrows" T-Shirt - Medium"
G347XL	Schumacher Arrows" T-Shirt - Small"
G347XS	Schumacher Arrows" T-Shirt - X-Large"
G347XXL	Schumacher Arrows" T-Shirt - X-Small"
G347XXXL	Schumacher Arrows" T-Shirt - XXL"
G347XXXXL	Schumacher Arrows" T-Shirt - XX-Small"
G347XXXXXL	Schumacher Arrows" T-Shirt - XXXL"
G347XXXXXXL	Schumacher Arrows" T-Shirt - XXXXL"
G347XXXXXXXL	Schumacher Arrows" T-Shirt - XXXXXL"
G348L	Schumacher Arrows" T-Shirt - XXXXXXL"
G348M	Schumacher Arrows" Hoody - Large"
G348S	Schumacher Arrows" Hoody - Medium"
G348XL	Schumacher Arrows" Hoody - Small"
G348XS	Schumacher Arrows" Hoody - XL"
G348XXL	Schumacher Arrows" Hoody - XS"
G348XXXL	Schumacher Arrows" Hoody - XXL"
G349L	Schumacher Arrows" Hoody - XXXL"
G349M	Schumacher Arrows" Zipped Hoody - Large"
G349S	Schumacher Arrows" Zipped Hoody - Medium"
G349XL	Schumacher Arrows" Zipped Hoody - Small"
G349XXL	Schumacher Arrows" Zipped Hoody - XL"
G350L	Schumacher Arrows" Zipped Hoody - XXL"
G350M	Schumacher Arrows" Polo Shirt-Large"
G350S	Schumacher Arrows" Polo Shirt-Medium"
G350XL	Schumacher Arrows" Polo Shirt-Small"
G350XXL	Schumacher Arrows" Polo Shirt-XL"
G350XXXL	Schumacher Arrows" Polo Shirt-XXL"





**TEAM MERCHANDISE CONT....**

G350XXXXL	Schumacher Arrows" Polo Shirt-XXXXL"
G350XXXXL	Schumacher Arrows" Polo Shirt-XXXXL"
G350XXXXXL	Schumacher Arrows" Polo Shirt-XXXXXL"
G355	Schumacher Hauler Bag
G360	Schumacher Snapback Flatbill Cap-Heather
G361	Schumacher Flexfit Cap S/M - Grey
G362	Schumacher Flexfit Cap L/XL - Grey

**ELECTRONICS**

AM174005	Arrowmax Diff Hardness Checker
AM174006	Diff Checker 1/8th GT-Buggy Adaptor Set
CR665	LiPo Voltage Checker
LRP65800	High Power Soldering Station
LRP65802	Soldering Tip 5.0mm - High Power Station
LRP65803	Soldering Tip 1.2mm - High Power Station
LRP65804	Handle Assembly - High Power Soldering Station
SK-500015	Corner Weight System
SK-600089-01	LED Pit Light 11-18V DC - Black
SK-600089-02	LED Pit Light 11-18V DC - Blue
SK-600114-01	DC Power Distributor

**SERVOS**

CR496	CORE RC - 9008TG Digital Servo 9Kg .08 Sec
CR497	CORE RC - 1012TG Digital Servo 10Kg .12 Sec
DA720702	DASH ST702 Super Torque High Voltage Servo A8
HSB200	Highest B200 (Speed) Servo
HSB210	Highest B210 (Torque) Servo
HSD1000PRO	Highest D1000PRO Servo
HSDR420	Servo (Speed) 1/10 .07s 6.2kg
HSDS1000	Servo (Speed) - 1/10 .08s 10.2kg
HSDS400	Servo (Speed) 1/10 .09s 7.2kg
HSDS700	Servo (Speed) 1/10 .08s 9.9kg
HSDT450	Servo (Torque) 1/10 .11s 7.9kg
HSDT750	Servo (Torque) 1/10 HV .12s 13.8kg
KO30123	KO RSx3-Response Servo
KO30201	KO Servo - BSx2 Response HC - .09 - 15.4Kg
SA107A54385A	Sanwa SRG-BX Type R Servo
SA107A54523A	Sanwa PGS-CX Servo Hi Torque
SA107A54526A	Sanwa PGS-CX2 Servo
SA107A54563A	Sanwa PGS-XB2 Servo
SA107A54566A	Sanwa PGS-XR2 Servo

**TRANSMITTERS AND RECEIVERS**

CR277	CODE 2.4G FHSS Steerwheel Radio TxRx
CR278	CODE 2.4G FHSS - Rx Only
KO21011	KO KR-418FH 4 Channels Receiver - 2.4GHz
KO80576	KO EX-RR w/KR-415FHD
KO80620	KO EX-RR w/KR-418FH
KO80700	KO Esprit IV - Stick Radio Combo
SA101A31971A	Sanwa MT-S Radio Set with RX482
SA101A32071A	Sanwa EXZES ZZ Radio Set with RX472
SA101A32171A	Sanwa MT-44 Radio Set with RX-482
SA101A32371A	Sanwa M12S-RS Radio Set with RX482
SA101A32471A	Sanwa M17 Radio Set with RX491
SA101A32571A	Sanwa MX-6 Radio Set with RX-391W
SA107A41044A	Sanwa RX-461 Receiver for MT-4
SA107A41074A	Sanwa RX-380 FHSS-3 Receiver
SA107A41111A	Sanwa RX-471 Receiver
SA107A41117A	Sanwa RX-472 Telemetry/SSL Receiver
SA107A41131A	Sanwa RX-471WP FH4 Waterproof Receiver
SA107A41144A	Sanwa RX-371WP FHSS-2 Waterproof Receiver
SA107A41151A	Sanwa RX-471 Dual ID Receiver
SA107A41251A	Sanwa RX-481 Receiver
SA107A41257A	Sanwa RX-482 Telemetry/SSL Receiver
SA107A41311A	Sanwa RX-481WP Built in Antenna Receiver
SA107A41353A	Sanwa RX-491 Receiver
U4831	Aerial Tube Cap - Black - 6pk

**CHARGERS AND DISCHARGERS**

AM701000	AM Auto Balance Charger&Discharger
CR031	CORE RC Charger Connector Set - 8pcs (10Amps max)
CR114	UDC Balance Adaptor Set JST-XH to JST-EH 2-6S
LRP41410EU	Pulsar Sport AC/DC Charger 50W/6A -EU
LRP41410US	Pulsar Sport AC/DC Charger 50W/6A - US
SK-100084	Imax B6 Mini Charger 6A 60W DC
SK-100103	Extreme Quick Charger 50W/4A - 2-4S
SK-100104	Q200 Quattro Charger

**CHARGERS AND DISCHARGERS CONT....**

SK-100107-04	E430 Lipo/LiFe Charger AC 3A 30W 2-4s
SK-100122	e450 Charger 50W - 4A -AC
SK-100123	D400 Charger
SK-100124	PC1080 Dual Charger
SK-100129	Ultimate Duo D250 Charger
SK-100131	D100 v2 AC/DC Dual Balance Charger
SK-100134	B6 nano Charger
SK-100146	SKY RC B6 Nano Duo AC Charger
SK-100149	SKY RC e680 AC/DC 80W Charger
SK-100151	SKY RC B6 Lite DC Charger
SK-100155-04	SKY RC T200 AC/DC 12A Charger
SK-100161-01	SKY RC Charger B6 - V2
SK-100162	SKY RC T100 Battery Charger
SK-200013-01	eFuel 30A 540W Power Supply
SK-200015	eFuel 50A 1200W Power Supply
SK-200023	SKY RC 380W 24v Power Supply

**BRUSHLESS MOTORS**

DA740085	DASH R-Tune 540 Sensored BL Motor 8.5T
DA740095	DASH R-Tune 540 Sensored BL Motor 9.5T
HW30401107	XERUN-V10-5.5T-Black-G3-BL-Motor
HW30401109	XERUN-V10-6.5T-Black-G3-BL-Motor
HW30401110	XERUN-V10-7.5T-Black-G3-BL-Motor
HW30401111	XERUN-V10-8.5T-Black-G3-BL-Motor
HW30404311	QUICRUN - 3650 - G2 - Motor - 8.5T
HW30404312	QUICRUN - 3650 - G2 - Motor - 6.5T
LRP520000	X22 Modified Motor 3.5T
LRP520004	X22 Modified Motor 5.5T
LRP520005	X22 Modified Motor 6.0T
LRP520006	X22 Modified Motor 6.5T
LRP520007	X22 Modified Motor 7.0T
LRP520008	X22 Modified Motor 7.5T
LRP520009	X22 Modified Motor 8.0T
LRP520010	X22 Modified Motor 8.5T
LRP520011	X22 Modified Motor 9.0T
LRP520012	X22 Modified Motor 9.5T
LRP520014	X22 Modified Motor 10.5T
SK-400003-56	ARES Pro V2.1 Modified Motor 6.5T
SK-400003-63	ARES Pro V2.1 Modified Motor 5.5T
SK-400003-64	ARES Pro V2.1 Modified Motor 7.5T
SK-400003-65	ARES Pro V2.1 Modified Motor 8.5T
SK-400003-66	ARES Pro V2.1 Modified Motor 9.5T
SP000149	1/10 Competition MMM Series 5.5R BL Motor
SP1385V3	Speed Passion V3.0 Comp BL Motor; 5.5T
SP1386V3	Speed Passion V3.0 Comp BL Motor; 6.5T
SP1388V3	Speed Passion V3.0 Comp BL Motor; 8.5T

**BRUSHLESS ACCESSORIES**

CR133	Core Sensor Lead; 80mm
CR134	Core Sensor Lead; 180mm
CR252	90mm Flat Bonded Flex Sensor Wire
CR253	110mm Flat Bonded Flex Sensor Wire
CR254	150mm Flat Bonded Flex Sensor Wire
CR255	200mm Flat Bonded Flex Sensor Wire
CR256	270mm Flat Bonded Flex Sensor Wire
CR264	Freeze 30 x 30mm Cooling Fan with JST Plug
CR650	90mm Super Flex 26GA Silicone Sensor Wire
CR651	150mm Super Flex 26GA Silicone sensor Wire
CR652	125mm Super Flex 26GA Silicone Sensor Wire
DA770106	Ultra High Speed ESC Cooling Fan 30x30x10mm Plast
DA771001	DASH Receiver Cable 200mm
DA771002	DASH On/Off Switch
DA771050	DASH Anti-Tweak Sensor Wire 50mm
DA771100	DASH Anti-Tweak Sensor Wire 100mm
DA771125	DASH Anti-Tweak Sensor Wire 125mm
DA771150	DASH Anti-Tweak Sensor Wire 150mm
DA771175	DASH Anti-Tweak Sensor Wire 175mm
HW2362000	XERUN - Sensor Cable - 200mm
HW30502000014	XERUN - EZRUN - Multifunction - LCD - Program Box
HW30503000	WiFi - Express Module
HW30810000	XERUN - Sensor Cable - 140mm
HW30860200010	XERUN - Fan - 2510SH - 13000RPM - 5V/0.16A for 2S
HW86020010	XERUN - EZRUN - Program Card for ESC
HW86030030	XERUN - Capacitors
HW86080120	EZRUN - Heat Sink with Fan for 3660,3674 Motors



**BRUSHLESS ACCESSORIES CONT....**

HW86080130	EZRUN - Heat Sink with Fan for 4465 Motors
LRP819307	Sensor Wire Highflex 70mm
LRP819310	Sensor Wire Highflex 100mm
LRP819315	Sensor Wire Highflex 150mm
LRP819320	Sensor Wire Highflex 200mm
MR33-CF30	MR33 Cooling Fan 30mm
SK-300046-01	Program Box

**BRUSHLESS SPEEDCONTROLS**

CR174	PACE 45R/60R Programming Card
CR199	PACE 60R Brushless ESC 1S/2S
DA770004	DASH AI Pro V2 - 1/10 Comp ESC
HW30112601	XERUN - XR10 - Pro - V4 - Orange
HW30112605	XERUN - XR10 - Pro Waterproof - Black
HW30112606	XERUN - XR10 - Pro - V4-G2 - Red
HW30112607	XERUN - XR10 - Pro - V4-G2 - Orange
HW30112608	XERUN - XR10 - Pro - V4-G2 - Black
HW30125000	Quicrun-10BL120-Sensored
HW81020170	XERUN - V2.1 - BL - ESC - 120A - Blue
LRP500003	Flow X Off Road
LRP80970	Flow Works Team BL Speed Control
SA107A41265A	Sanwa SV-Plus Zero ESC
SA107A41268A	Sanwa SV-Plus Zero ESC for EU
SA107A54257A	Sanwa Super Vortex Sport ESC
SA107A54393A	Sanwa Super Vortex Stock ESC SVZ Stock
SA107A54413A	Sanwa Super Vortex Generation 2 ESC SVZ G2
SA107A54503A	Sanwa Super Vortex Gen2 Pro
SK-300044-01	Toro TS 120A ESC
SK-300062-01	Toro TS 120A Alloy ESC - Blue
SK-300062-02	Toro TS 120A Alloy ESC - Black
SK-300064-01	Toro TS 160 ESC

**BATTERIES**

AM199502	Lipo Safe Bag (185 x 75 x 60mm)
AM700201	AM Lipo 4600mAh 2S Shorty - 7.4V - 55C/110C
AM700202	AM Lipo 5000 mAh 2S Shorty - 7.4V 55/110C
AM700203	Lipo 6000mAh 2S Shorty - 7.6V 55/110C
AM700204	AM Lipo 5200mAh 2S Shorty-7.4V-60/120C Si-Graphene
AM700720	Lipo 4800mAh LCG Mid-Shorty-7.4V 120C Si-Graphene
AM700721	Lipo 5300mAh LCG Mid Shorty - 7.6V 120C Si-Graphene
CR007	CORE RC Silicone Wire 12g - Red/Black 2x50cm
CR009	CORE RC RED Connector with 2x4mm Males
CR050	CORE RC Silicone Wire 12AWG - Red 1 Metre
CR051	CORE RC Silicone Wire 12AWG - Black 1 Metre
CR052	CORE RC Silicone Wire 12AWG - Blue 1 Metre
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
CR287	Silicone Wire Black 14 AWG - 1Mtr
CR288	Silicone Wire Black 16 AWG - 1Mtr
CR653	Core RC Silicone Wire 13AWG- Black-1 Mtr
DA771003	DASH 12AWG Wire Black
DA771004	DASH 13AWG Wire Black
DA771005	DASH 14AWG Wire Black
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
IPBG2S4200HVR	Intellect LiHV Battery Shorty 4200mAh 50C 7.6V 5mm
IPBG2S5000HV4	Intellect Lipo LiHV 120C 2S Shorty 5000mAh 7.6V
IPBG2S6000HV4	Intellect Lipo LiHV 120C 2S Shorty 6000mAh 7.6V
IPLP2S3600HV4	Intellect Lipo LiHV 120C 2S LP Shorty 3600mAh 7.6V
IPLP2S4200HV4	Intellect Lipo LiHV 120C 2S LP Shorty 4200mAh 7.6V
LRP65845	Lipo Safe - 23 x 30cm
LRP65846	Lipo Safe - 18 x 22cm
LRP65847	Lipo Safe Box - Small 15 x 6 x 5cm
LRP65848	Lipo Safe Box - Large 18 x 8 x 6cm
MR33-SB2	MR33 Lipo Battery Safety Bag - V2
MR-SB	MR33 Lipo Bag
SK-500007-01	SKY RC Lipo Pal

**GENERAL ACCESSORIES**

CR043	CORE RC - Silver X-Weights 16pcs
CR058	CORE RC - Black X-Weights 16pcs
CR197	CORE RC - Glass Setup Board

**GENERAL ACCESSORIES CONT....**

CR297	CORE RC - Neoprene Bag
CR518	Super Glue Nozzles - pk10
CR520	Medium Thread Lock 3ml
CR521	Super Glue Activator 63ml
CR522	CORE RC - 522 Pro Tyre Glue + 2 Nozzles
CR548	CORE RC - Tool Bag
CR549	CORE RC - Oil Bag
CR725	Double Sided Tape - Clear/Rubber - 25mm x 1m
CR726	Double Sided Tape - Grey/Foam - 25mm x 1m
DF4260269080410	Dry-Fluid Extreme RC Car - 20ml
DF4260269080731	Dry-Fluid Extreme Gear Lube - 10ml
G353	Schumacher Glass Setup Board
G354	Schumacher - Neoprene Bag
H1057	Loctite Precision Super Glue - 5g
J003	Contact RC - Glass Setup Board
MR-CSOFFROAD	MR33 Car Stand Off Road
MR-SUPER GLUE	MR33 Perfect Super Glue for Rubber Tyres
SXT00080	SXT Ice Tyre Glue
SXT00081	SXT Tyre Glue Bands (4pcs)
SXT00085	SXT Silk Anti Wear Grease

**TOOLS**

CR044	CORE RC - Curved Body Scissors
CR045	CORE RC - Straight Body Scissors
CR100	Shock Shaft Pliers - Purple
CR101	Shock Shaft Pliers - Black
CR148	CORE RC - Polybutler Pit Box; Black
CR233	Piston Drilling Kit-1.1-1.8mm (8 bits)
CR262	Piston Drilling Kit - 1.5 - 2.2mm (8 Bits)
CR271	4 Way Wrench Small - 4.0,4.5,5.5,7.0mm
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

**1-10 BUGGY ON ROAD TYRES**

JY35	1/10 Buggy Foam Donuts Rear 35Sh
JY45	1/10 Buggy Foam Donuts Front 45Sh

**1-10 BUGGY OFF ROAD TYRES**

T650	Full Spike 2 - Rear Tyres - Yellow CAT (pr)"
T652	Full Spike - Front Tyres - Yellow 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)
U6607	Mini Pin - Yellow - Front - 2.2 (pr)
U6608	Mini Pin - Yellow - Rear - 2.2 (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)
U6786	Block - Rear Tyres - Yellow - CAT pr
U6787	Block - Front Tyres - Yellow - CAT pr
U6791	Mini Pin -Pre-Glued Yellow Front Hex Drive (pr)
U6793	Mini Spike2 -Pre-Glued Yellow Front 4WD hex (pr)
U6794	Mini Spike2 -Pre-Glued Yellow Rear Hex Drive(pr)
U6797	Stud 2 Row Front - Yellow (pr)
U6803	Mini Pin 2 Rear- 1/10 - Blue - (pr)
U6804	Mini Pin 2 Rear - 1/10 - Yellow - (pr)
U6805	Mini Pin 2 Rear - 1/10 - Silver - (pr)
U6806	Mini Pin 2 Rear - 1/10 - Yellow - Pre-Glue - (pr)
U6810	Wide Stagger Rib - 1/10 - Yellow (pr)
U6811	Wide Stagger Rib - 1/10 - Silver (pr)
U6812	Wide Stagger Rib - 1/10 -Yellow-Pre-Glued (pr)
U6817	Mini Pin 1 - Rear - 1/10 - Yellow-pr
U6818	Mini Pin 1 - Rear - 1/10 - Yellow - Pre-Glued



**1-10 BUGGY OFF ROAD TYRES CONT....**

U6819	Mini Pin 1 - Rear - 1/10 - Blue - pr
U6820	Mini Pin 1 - Rear - 1/10 - Silver - pr
U6821	Mini Pin 2 - Front - 1/10 - Yellow pr
U6822	Mini Pin 2 - Front - 1/10 - Yellow-Pre-Glued pr
U6825	Mini Dart 1/10 - Front - 4WD - Yellow (pr)
U6826	Mini Dart 1/10 - Rear - Yellow (pr)
U6828	Mini Dart 1/10 - Front - 4WD - Blue (pr)
U6829	Mini Dart 1/10 - Rear - Blue (pr)
U6831	Mini Dart 1/10 - Front - 4WD - Silver (pr)
U6832	Mini Dart 1/10 - Rear - Silver (pr)
U6834	Mini Dart 1/10-Front-4WD-Pre-Glued-Yellow (pr)
U6835	Mini Dart 1/10 - Rear - Pre-Glued-Yellow (pr)
U6838	Cactus 1/10 - Rear - Yellow - pr
U6839	Cactus 1/10 - Rear - Yellow - Pre-Glued - pr
U6840	Cactus 1/10 - Front - 4WD - Yellow - pr
U6841	Cactus 1/10 - Front - 4WD - Yellow-Pre-Glued - pr
U6842	Cactus 1/10 - Rear - Silver - pr
U6843	Cactus 1/10 - Front - 4WD - Silver - pr
U6844	Cactus 1/10 - Rear - Blue - pr
U6845	Cactus 1/10 - Front - 4WD - Blue - pr
U6846	Wide Stagger Rib - 1/10 - Blue (pr)
U6855	Cactus Fusion 1/10 -Front-4WD-Yellow-pr
U6856	Cactus Fusion 1/10-Fr-4WD-Yellow-Pre-Glued-pr
U6857	Cactus Fusion 1/10-Front-4WD-Blue-pr
U6858	Cactus Fusion 1/10-Front-4WD-Silver-pr
U6861	Honeycomb 1/10-Front-4WD-Yellow-pr
U6862	Honeycomb 1/10-Front-4WD-Yellow-Pre-Glued
U6863	Honeycomb 1/10-Rear-Yellow-pr
U6864	Honeycomb 1/10-Rear-Yellow-Pre-Glued
U6872	Mini Dart 1/10-Front-4WD-Pre-Glued-Silver-pr
U6873	Mini Dart 1/10 Rear - Pre-Glued-Silver-pr
U6874	Honeycomb 1/10 Fr-4WD-Yell+Cragg Insert-Pre-Glued
U6875	Honeycomb 1/10 Rr-Yell+Cragg Insert-Pre-Glued
U6876	Honeycomb 1/10 Fr-2WD-Yell+Cragg Insert-Pre-Glued

**1-10 BUGGY WHEELS AND INSERTS**

CR687	1/10 Closed Cell Inserts - Rear - pr
CR688	1/10 Closed Cell Inserts - 4WD Front - pr
MC0001	Cragg KWF Inserts 1/10th 4WD Front pr
MC0002	Cragg KWF Inserts 1/10th Rear pr
U4365	Wheel; Hex Rear - Black - Off Road - pr
U4366	Wheel; Hex Rear - White - Off Road - pr
U4495	Wheel; Hex Front - Black - 4wd - pr
U4496	Wheel; Hex Front - White - 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)
U7458	Wheel Front 4WD - Neon Yellow - pr
U7459	Wheel Front 4WD - Neon Yellow - 5pr
U7460	Wheel Rear Off-Road - Neon Yellow - pr
U7461	Wheel Rear Off-Road - Neon Yellow - 5pr
U7468	Wheel Front 4WD - White - 5pr
U7469	Wheel Rear Off-Road - White - 5pr

**PAINT**

CR599	Spraygun Pro for Core paint
CR600	Aerosol Paint - White Knight
CR601	Aerosol Paint - Yellow Taxi
CR602	Aerosol Paint - Fire Red
CR603	Aerosol Paint - French Blue
CR604	Aerosol Paint - Petrol Blue
CR605	Aerosol Paint - Racing Green
CR606	Aerosol Paint - Jet Black
CR607	Aerosol Paint - Lime Green
CR608	Aerosol Paint - Tangerine
CR609	Aerosol Paint - Hot Pink
CR610	Aerosol Paint - Berry Purple
CR611	Aerosol Paint - Neon Yellow
CR612	Aerosol Paint - Neon Orange
CR613	Aerosol Paint - Neon Red
CR614	Aerosol Paint - Neon Green
CR615	Aerosol Paint - Neon Fire
CR616	Aerosol Paint - Neon Carrot

**PAINT CONT....**

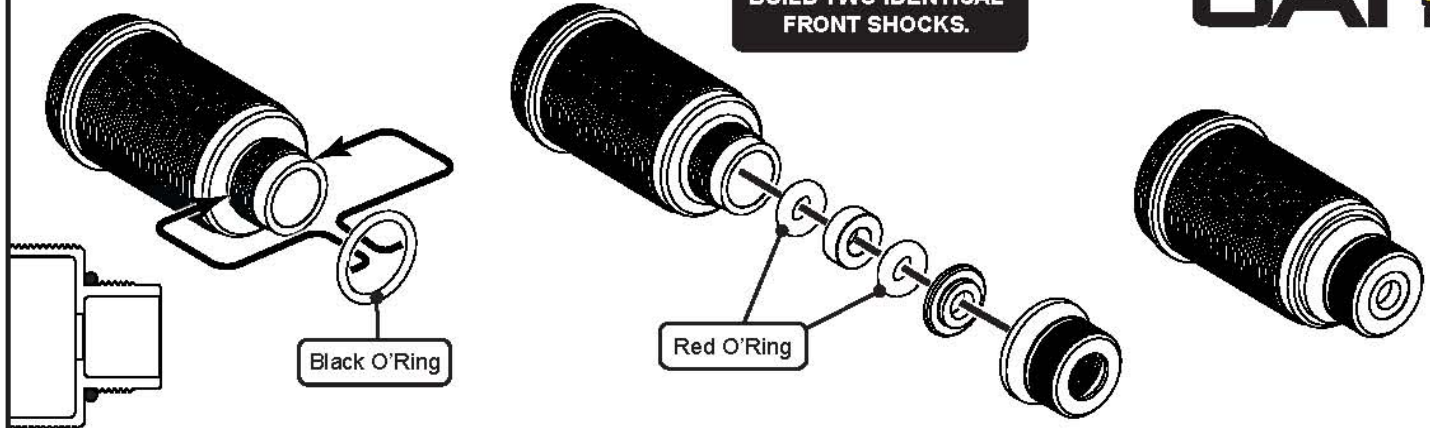
CR617	Aerosol Paint - Neon Pink
CR618	Aerosol Paint - Neon Blue
CR619	Aerosol Paint - Metallic Blue
CR620	Aerosol Paint - Metallic Graphite
CR621	Aerosol Paint - Metallic Silver
CR622	Aerosol Paint - Metallic Purple
CR623	Aerosol Paint - Metallic Green
CR624	Aerosol Paint - Metallic Red
CR625	Aerosol Paint - Metallic White
CR626	Aerosol Paint - Clear Sparkle
CR627	Aerosol Paint - True Chrome
CR628	Aerosol Paint - Clear Backing
CR629	Aerosol Paint - Window Tint
CR631	Aerosol Paint - Spearmint
CR666	Aerosol Paint - Flat Matt Finish
CR667	Aerosol Paint - Glacier Sapphire
CR668	Aerosol Paint - Glacier Raspberry
CR669	Aerosol Paint - Glacier Gold
CR670	Aerosol Paint - Glacier Plum
CR671	Aerosol Paint - Shark Grey
CR672	Aerosol Paint - Bullion Gold
HN20000	Airbrush Bottle Adapter for 60ml/120ml
HN20010	Airbrush Paint Clear Coat - 60ml
HN20020	Airbrush Paint SP Reducer/Cleaner 60ml
HN20021	Airbrush Paint SP Reducer/Cleaner 120ml
HN21000	Airbrush Paint Chrome 60ml
HN22000	Airbrush Paint Solid White 60ml
HN22001	Airbrush Paint Solid White 120ml
HN22020	Airbrush Paint Solid Grey 60ml
HN22030	Airbrush Paint Solid Black 60ml
HN22031	Airbrush Paint Solid Black 120ml
HN22040	Airbrush Paint Solid Yellow 60ml
HN22050	Airbrush Paint Solid Orange 60ml
HN22060	Airbrush Paint Solid Red 60ml
HN22080	Airbrush Paint Solid Aqua Blue 60ml
HN22090	Airbrush Paint Solid Sky Blue 60ml
HN22100	Airbrush Paint Solid Blue 60ml
HN22110	Airbrush Paint Solid Green 60ml
HN22130	Airbrush Paint Solid Brown 60ml
HN23000	Airbrush Paint Transparent Yellow 60ml
HN23010	Airbrush Paint Transparent Orange 60ml
HN23020	Airbrush Paint Transparent Pink 60ml
HN23030	Airbrush Paint Transparent Red 60ml
HN23040	Airbrush Paint Transparent Purple 60ml
HN23050	Airbrush Paint Transparent Blue 60ml
HN23060	Airbrush Paint Transparent Green 60ml
HN23070	Airbrush Paint Transparent Grey Tint 60ml
HN24000	Airbrush Paint Pearl White 60ml
HN24010	Airbrush Paint Pearl Silver 60ml
HN24020	Airbrush Paint Pearl Gold 60ml
HN24030	Airbrush Paint Pearl Orange 60ml
HN24050	Airbrush Paint Pearl Red 60ml
HN24060	Airbrush Paint Pearl Copper 60ml
HN24070	Airbrush Paint Pearl Blue 60ml
HN24080	Airbrush Paint Pearl Key-Lime Green 60ml
HN24090	Airbrush Paint Pearl Green 60ml
HN24100	Airbrush Paint Pearl Charcoal Grey 60ml
HN24110	Airbrush Paint Pearl Black 60ml
HN25000	Airbrush Paint Neon Yellow 60ml
HN25010	Airbrush Paint Neon Flame Orange 60ml
HN25020	Airbrush Paint Neon Orange 60ml
HN25030	Airbrush Paint Neon Pink 60ml
HN25040	Airbrush Paint Neon Raspberry 60ml
HN25050	Airbrush Paint Neon Red 60ml
HN25060	Airbrush Paint Neon Purple 60ml
HN25070	Airbrush Paint Neon Blue 60ml
HN25080	Airbrush Paint Neon Green 60ml
HN26000	Airbrush Paint Iridescent Yellow 60ml
HN26010	Airbrush Paint Iridescent Candy Red 60ml
HN26020	Airbrush Paint Iridescent Red 60ml
HN26030	Airbrush Paint Iridescent Purple 60ml
HN26050	Airbrush Paint Iridescent Teal Green 60ml
HN26060	Airbrush Paint Iridescent Turquoise 60ml
HN27000	Airbrush Paint Change Gold 60ml
HN27010	Airbrush Paint Change Red 60ml
HN27020	Airbrush Paint Change Purple 60ml
HN27030	Airbrush Paint Change Blue 60ml
HN27040	Airbrush Paint Change Green 60ml



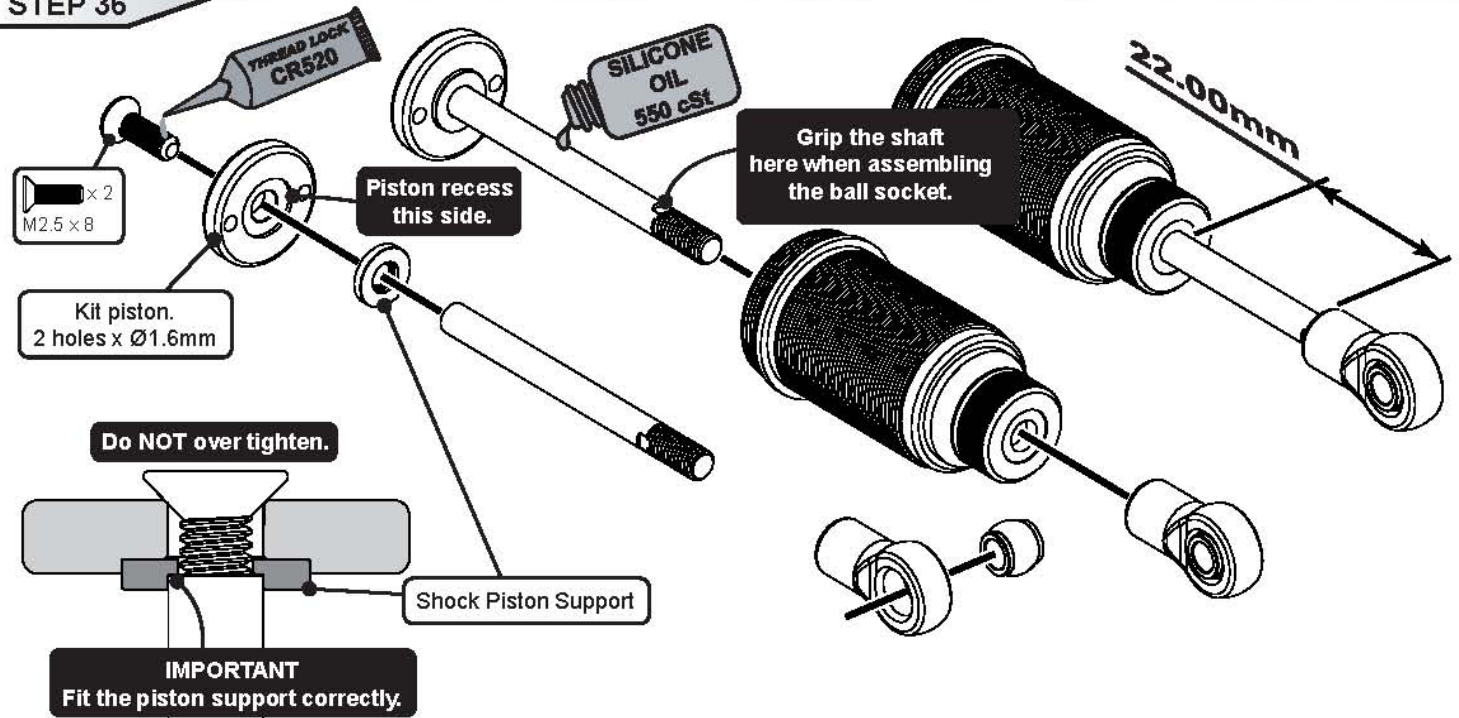
# STEP 35



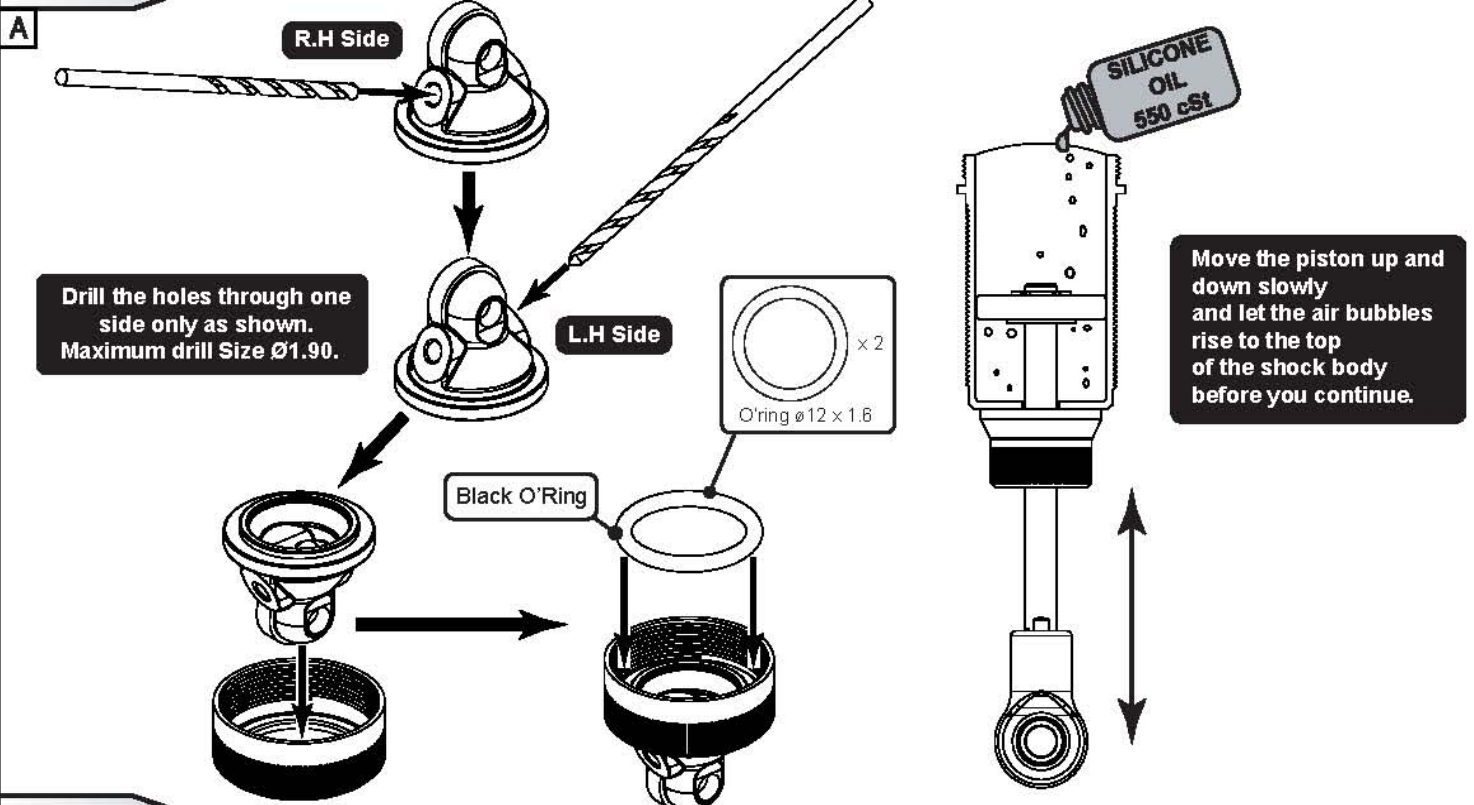
**BUILD TWO IDENTICAL FRONT SHOCKS.**



# STEP 36



# STEP 37

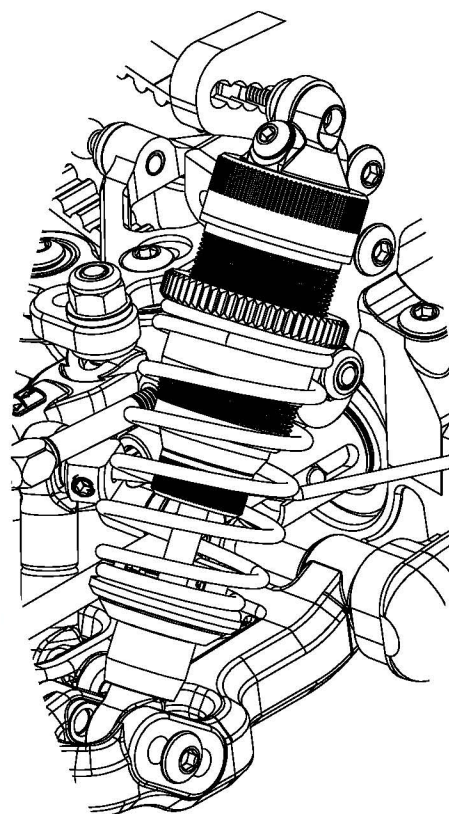
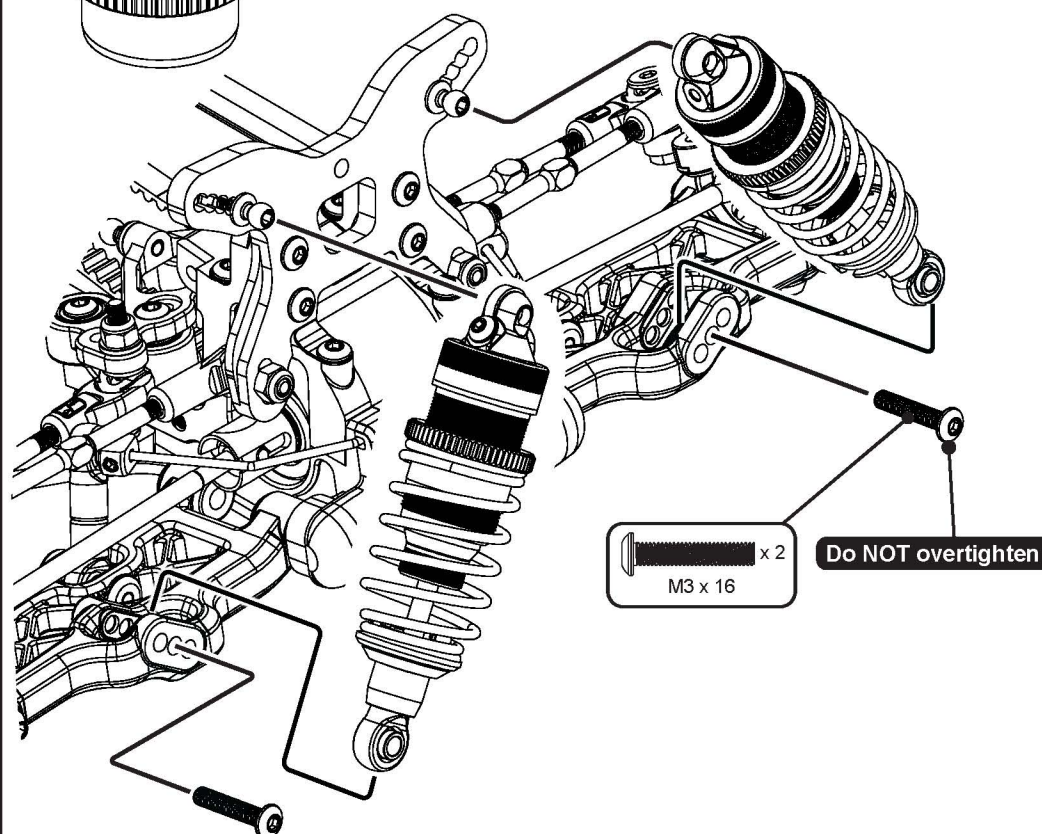
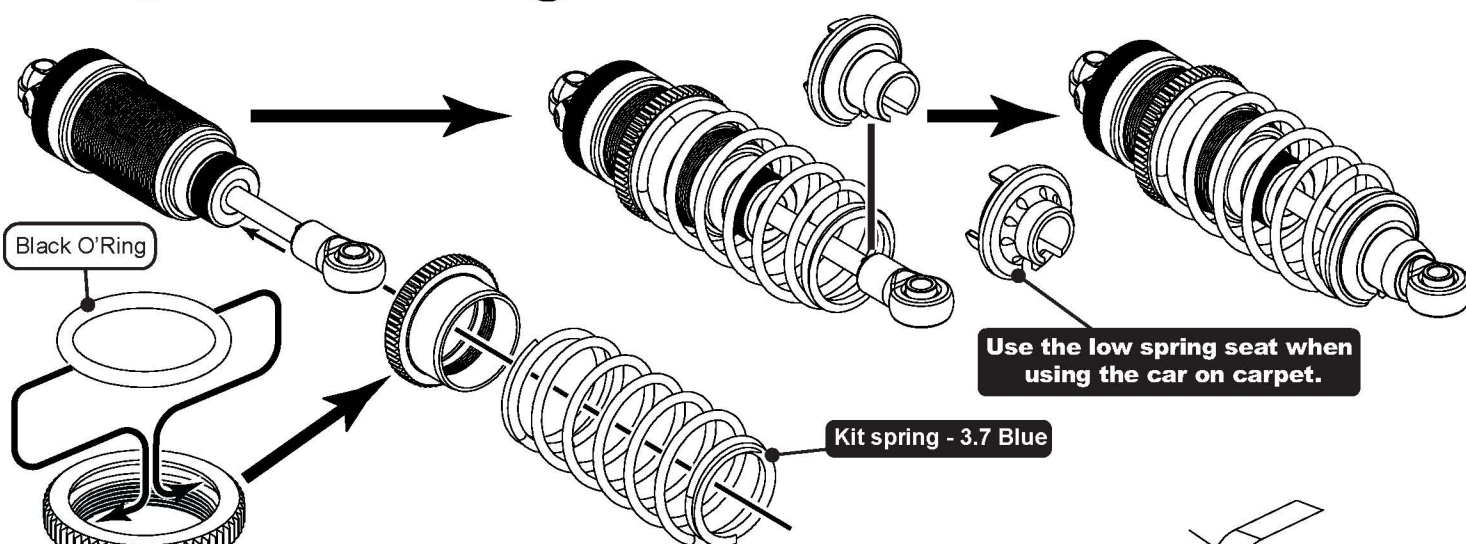




Screw the cap and O'ring onto the body.  
Then tighten the cap fully.

Fully compress the shock.  
Once the excess oil has been expelled,  
seal off the cap with the screw.

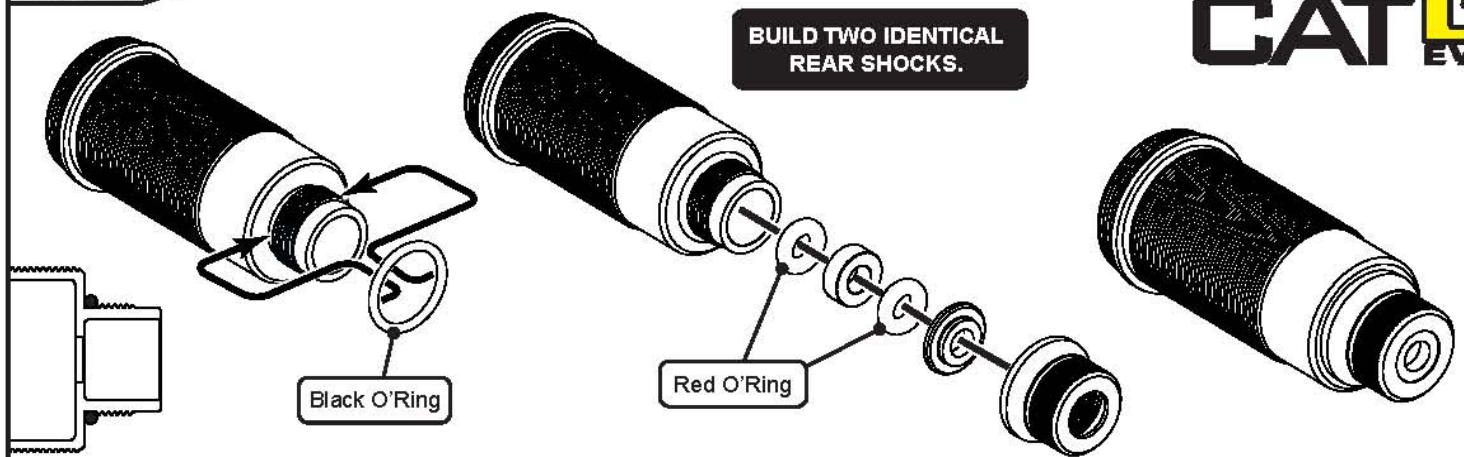
x 2  
M2.5 x 4



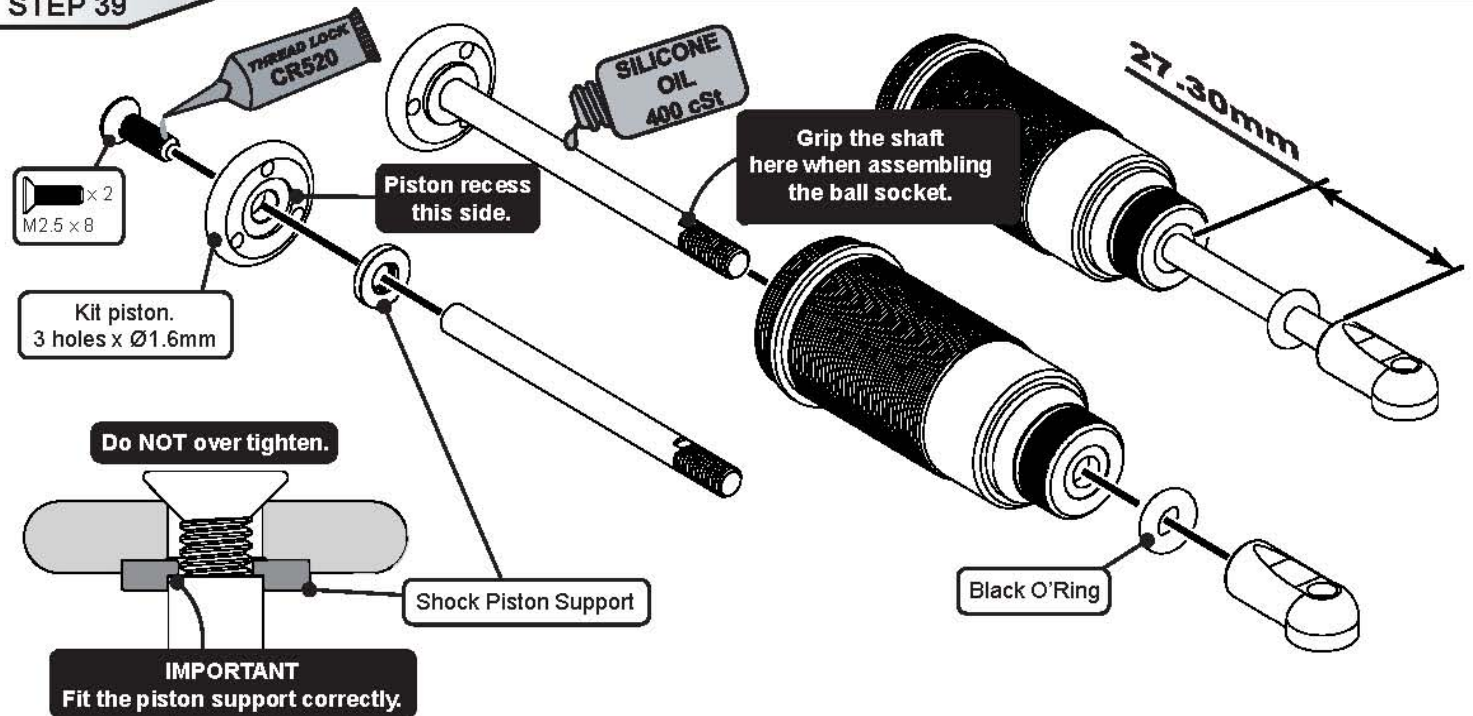
# STEP 38



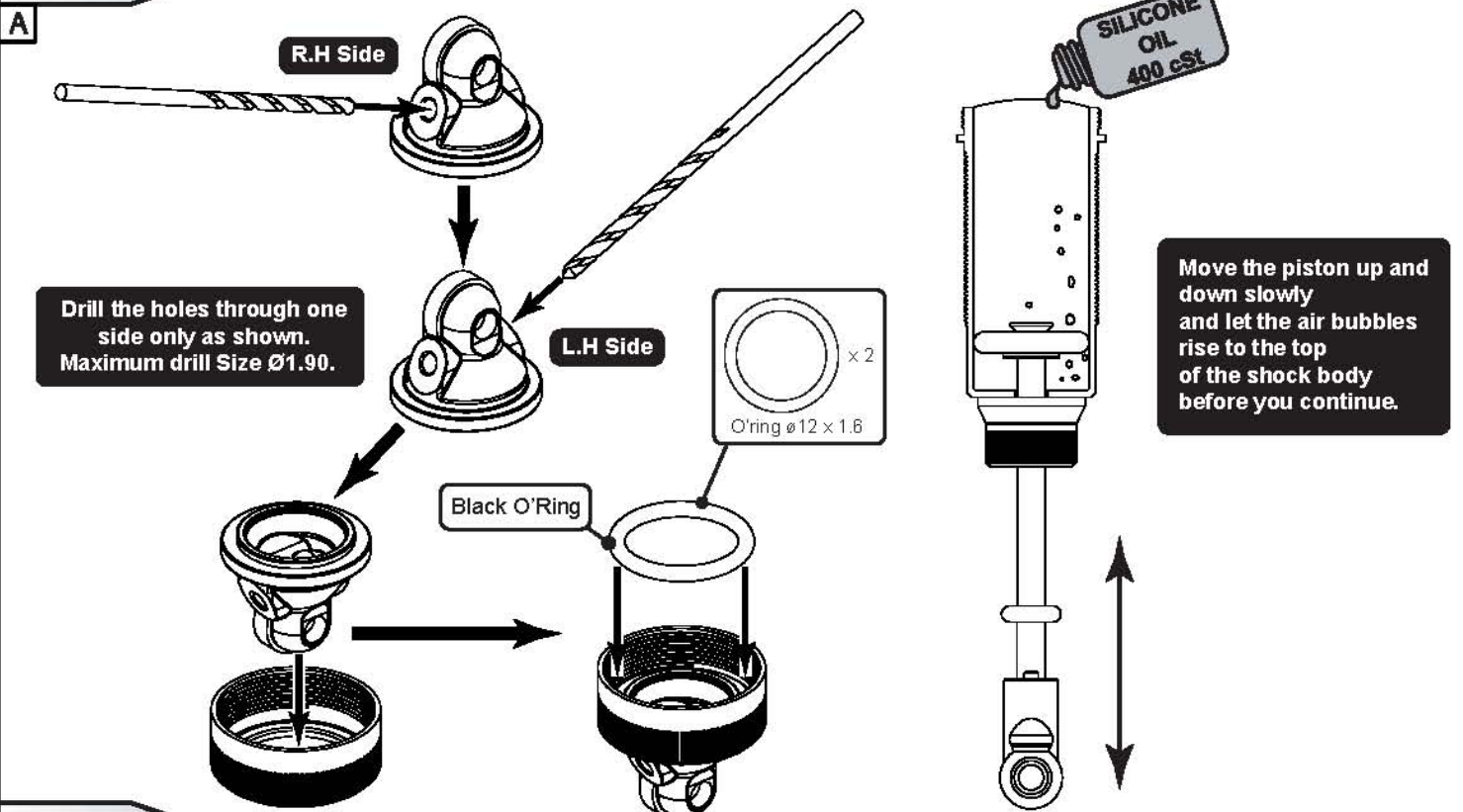
**BUILD TWO IDENTICAL REAR SHOCKS.**



# STEP 39



# STEP 40





Screw the cap and O'ring onto the body.  
Then tighten the cap fully.

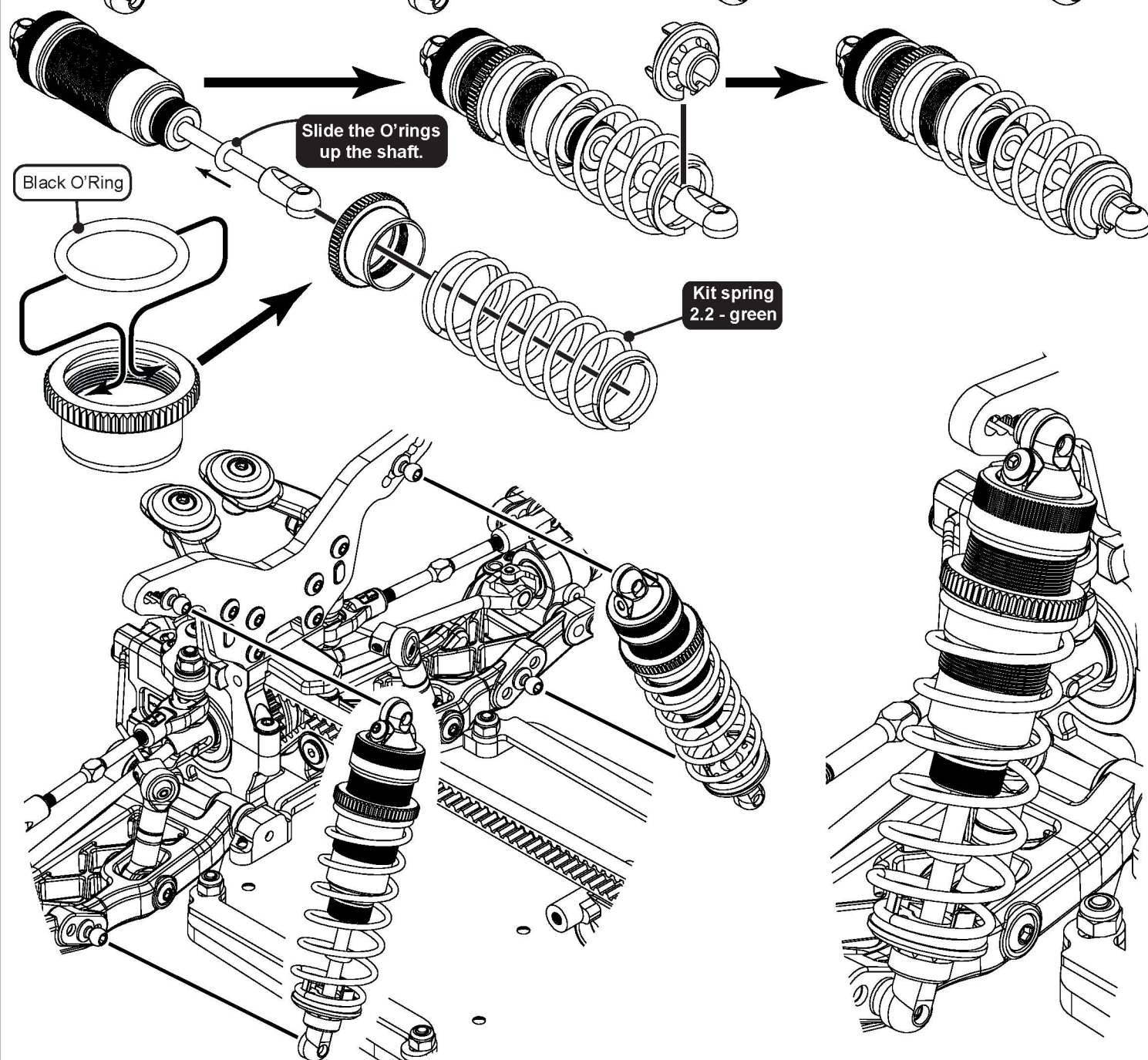
Fully compress the shock.  
Once the excess oil has been expelled,  
seal off the cap with the screw.

x 2  
M2.5 x 4

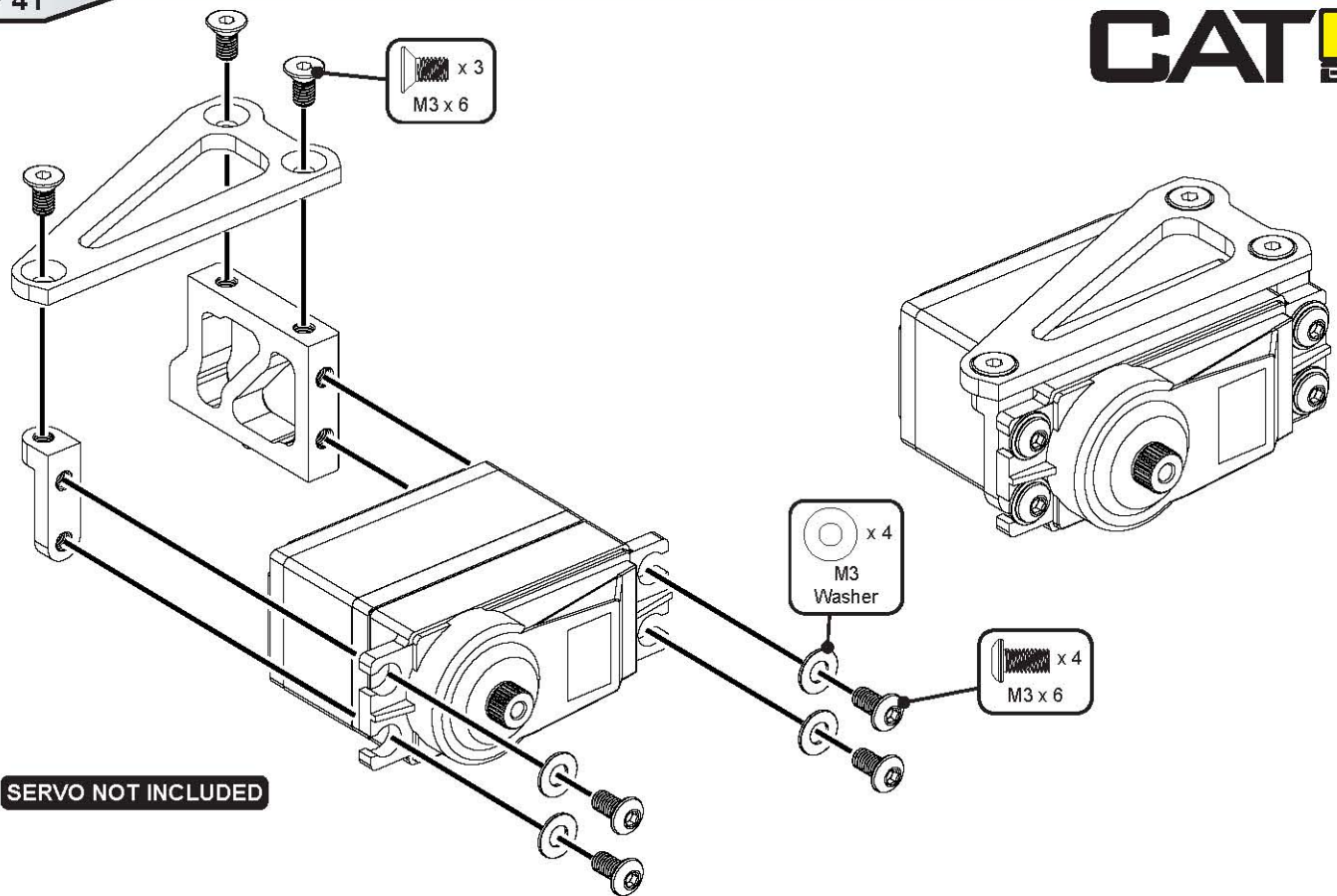
Slide the O'ring  
up the shaft.

Black O'Ring

Kit spring  
2.2 - green

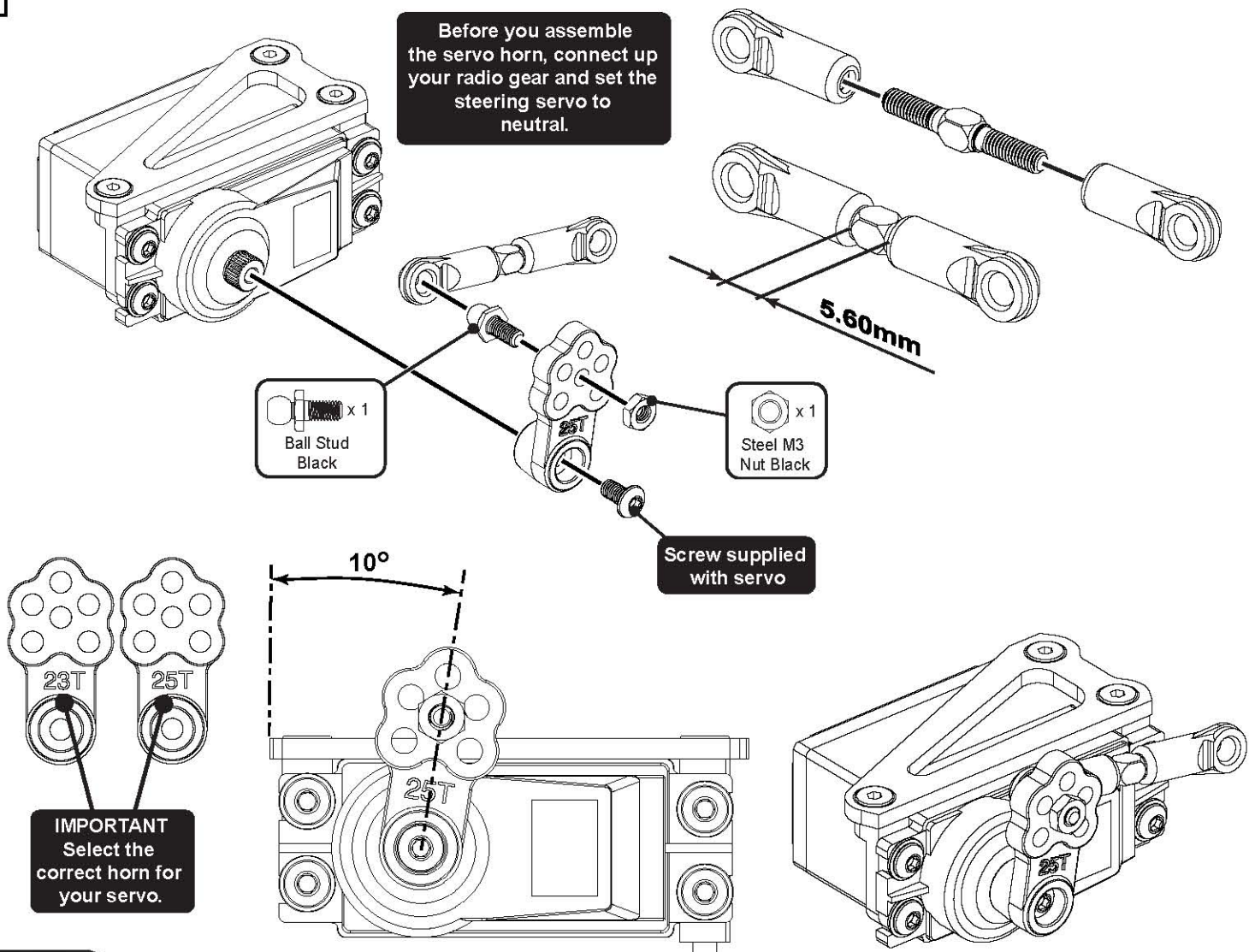


# STEP 41

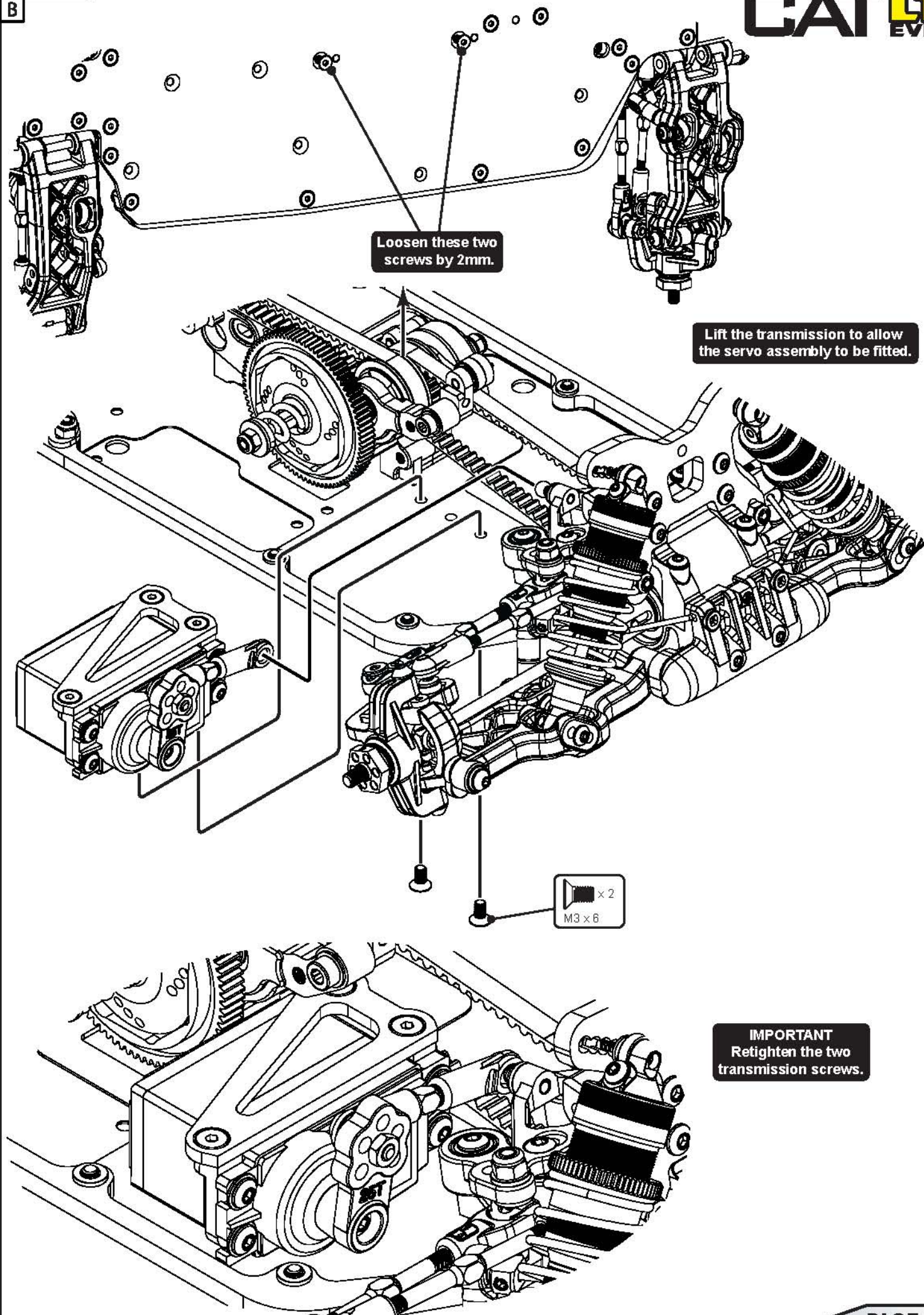


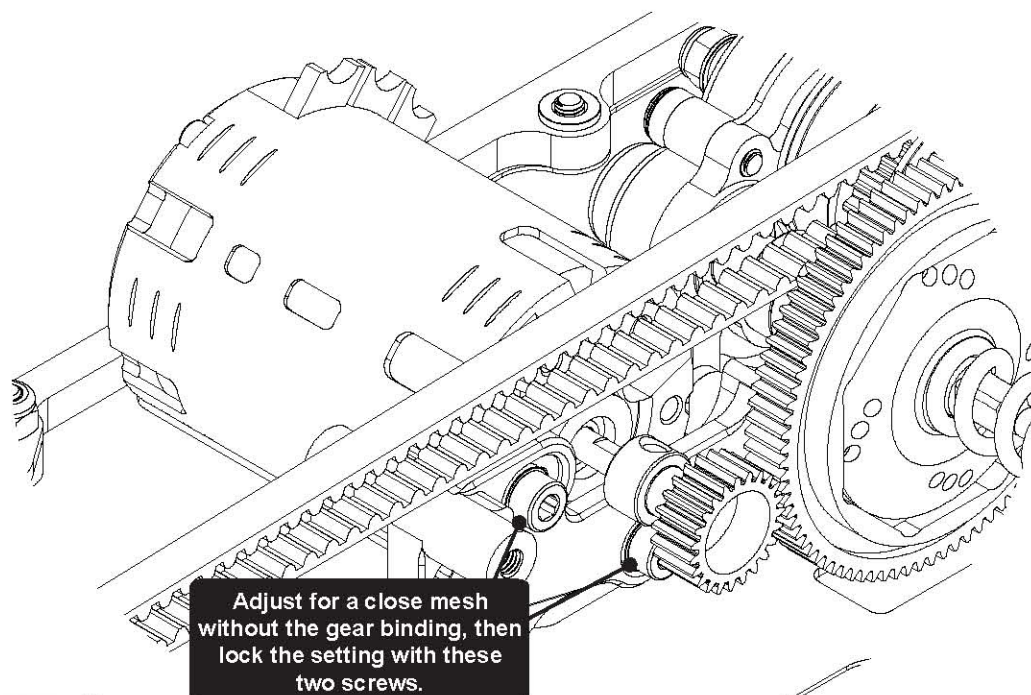
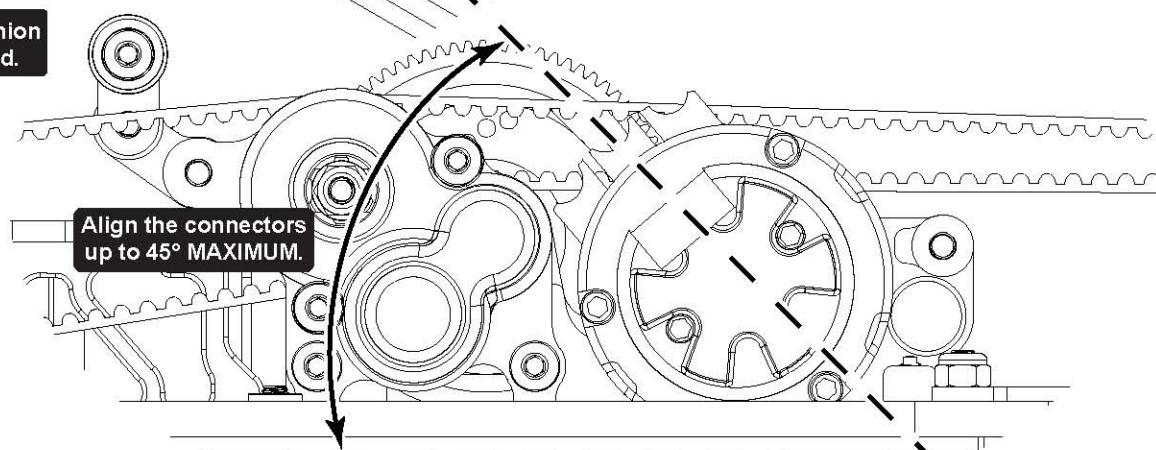
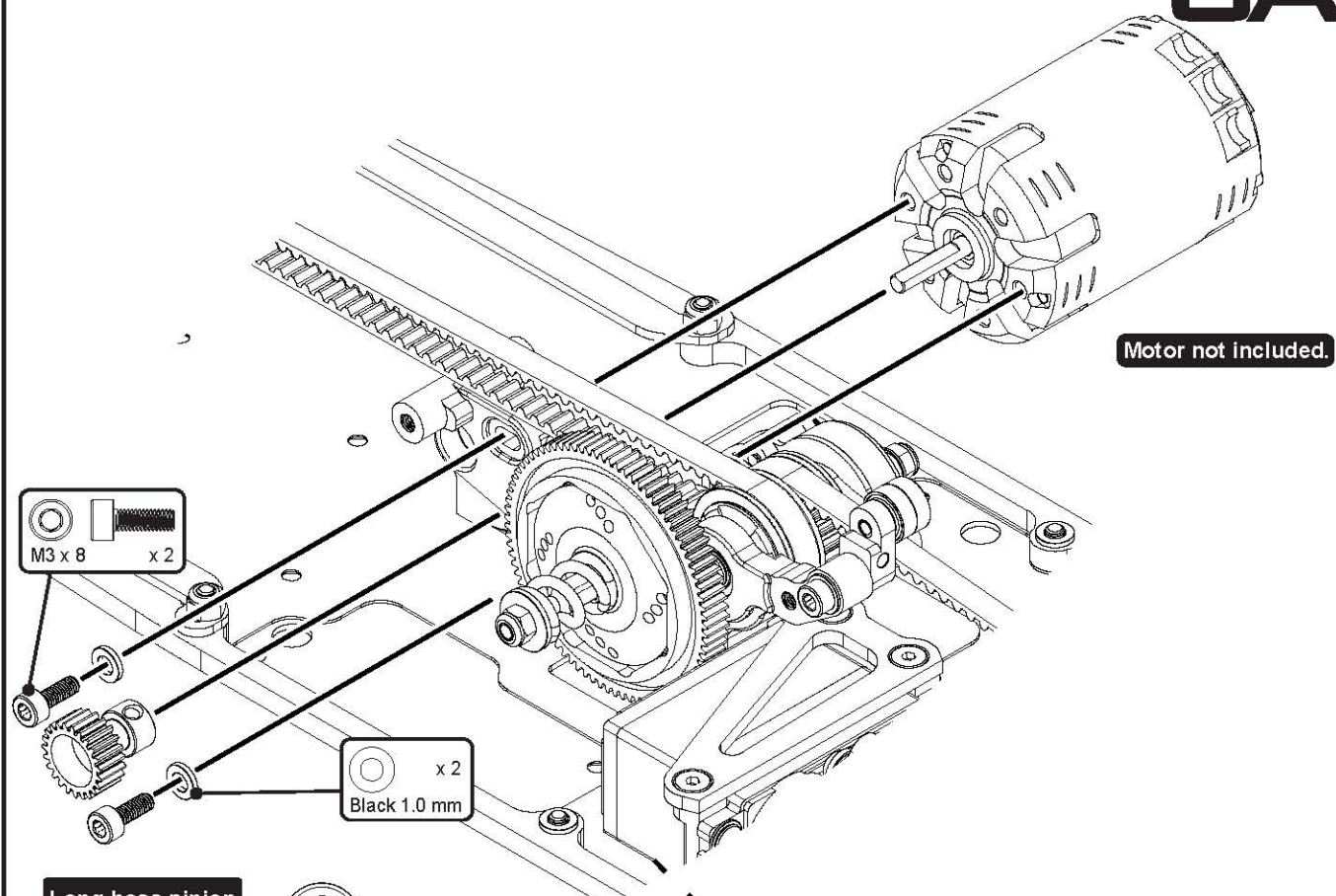
# STEP 42

**A**

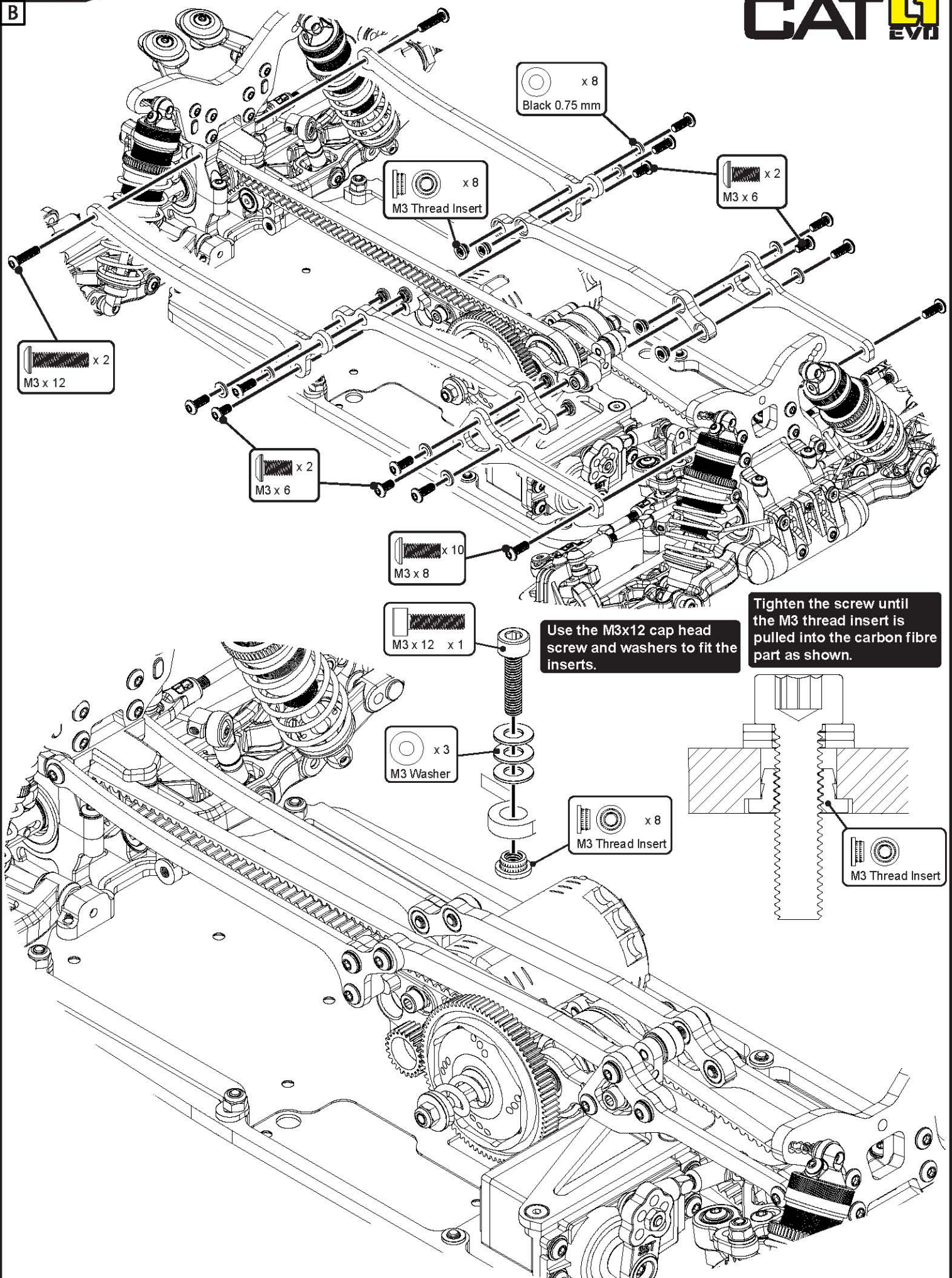










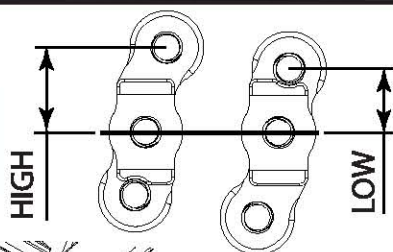




## STEP 43

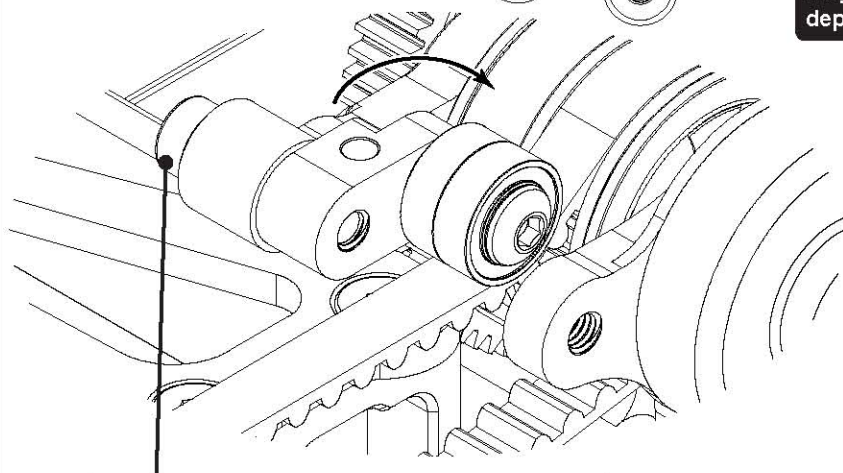
C

**IMPORTANT**  
Some parts have been hidden for assembly clarification only  
DO NOT disassemble your car.

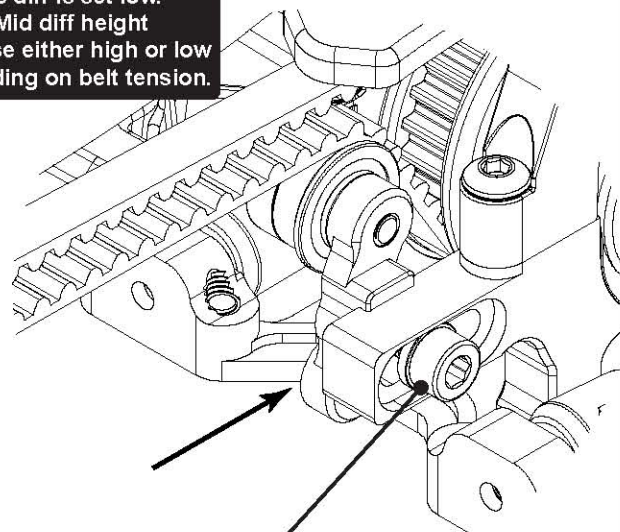


The belt tensioner has two bearing heights. High bearing is used when the diff is set high. Low bearing is for when the diff is set low. Mid diff height may use either high or low depending on belt tension.

**CAT L1**  
EVII



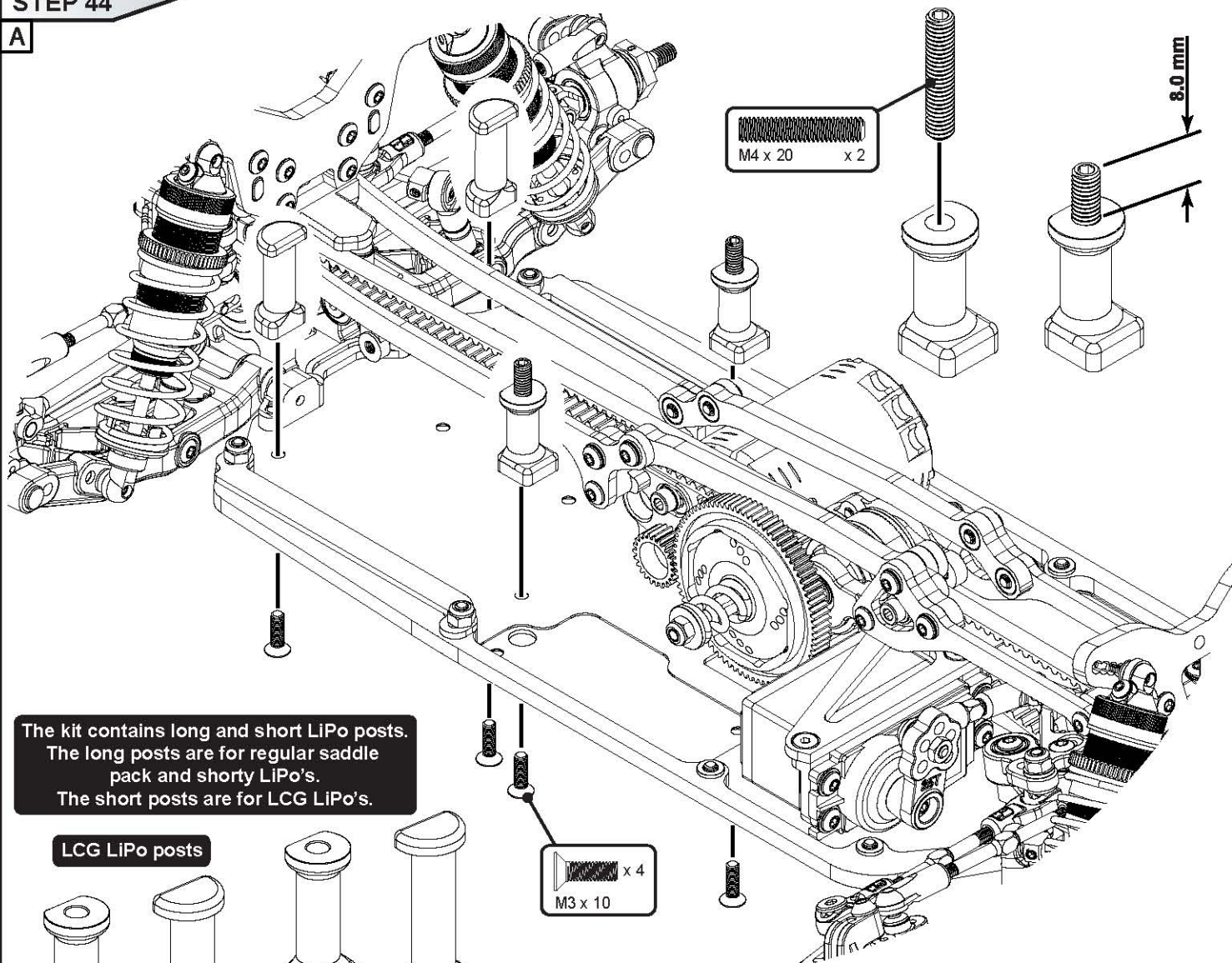
**Setting Front Belt Tension**  
Loosen the screw and rotate the belt tensioner to set the tension, then tighten the screw.



**Setting Rear Belt Tension**  
Loosen the screw and slide the belt tensioner to set the tension, then tighten the screw.

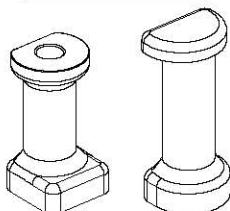
## STEP 44

A



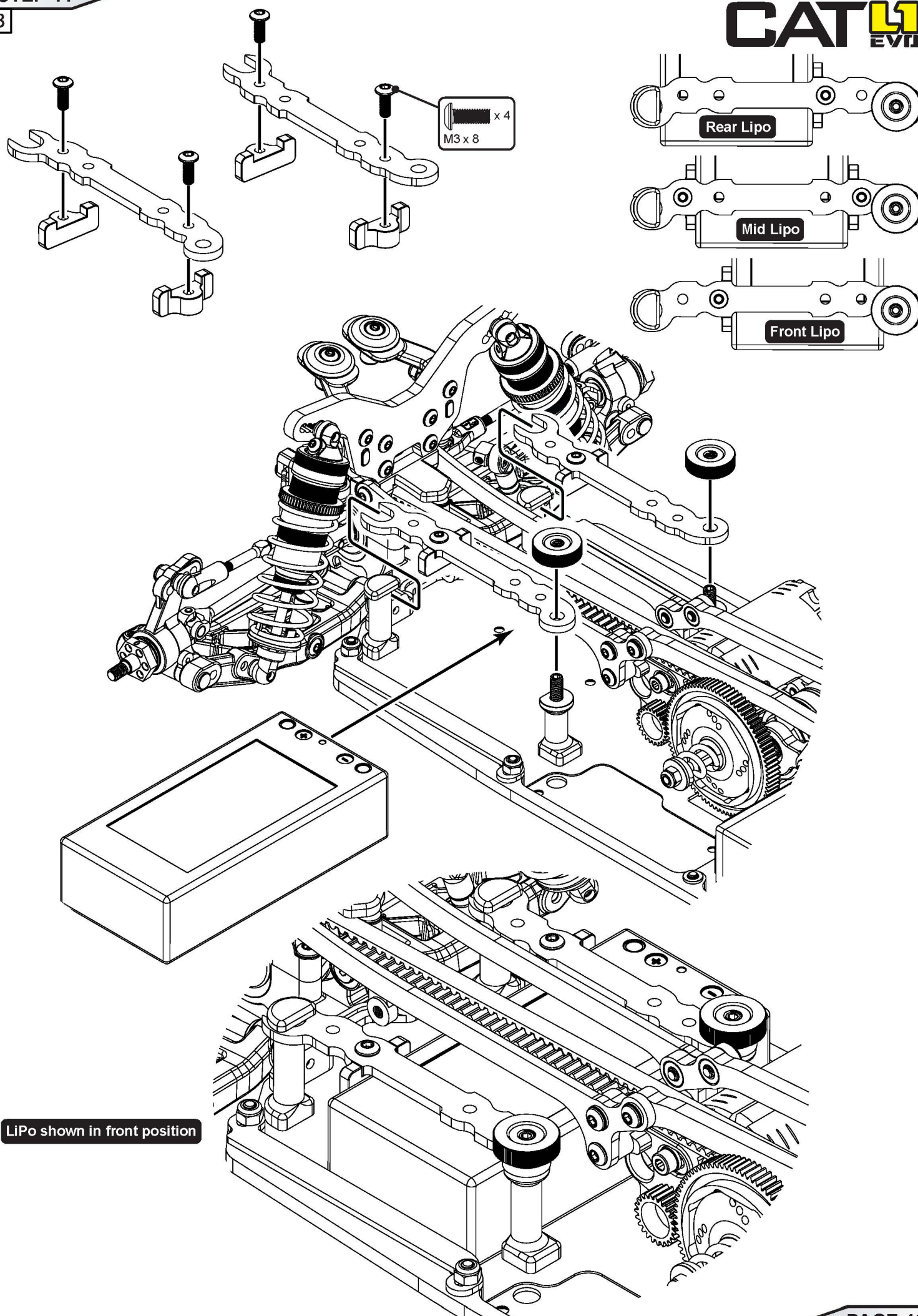
The kit contains long and short LiPo posts. The long posts are for regular saddle pack and shorty LiPo's. The short posts are for LCG LiPo's.

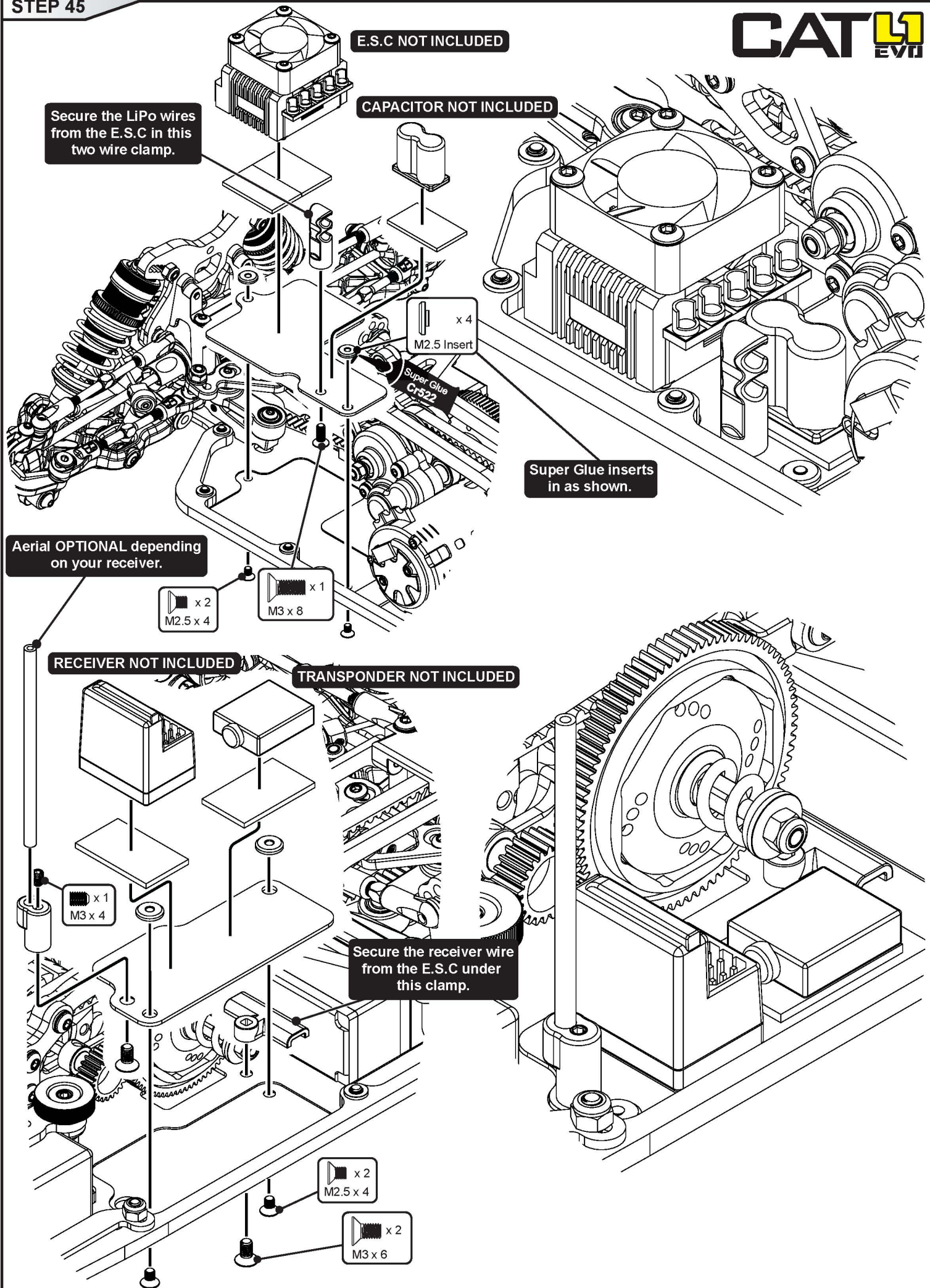
LCG LiPo posts



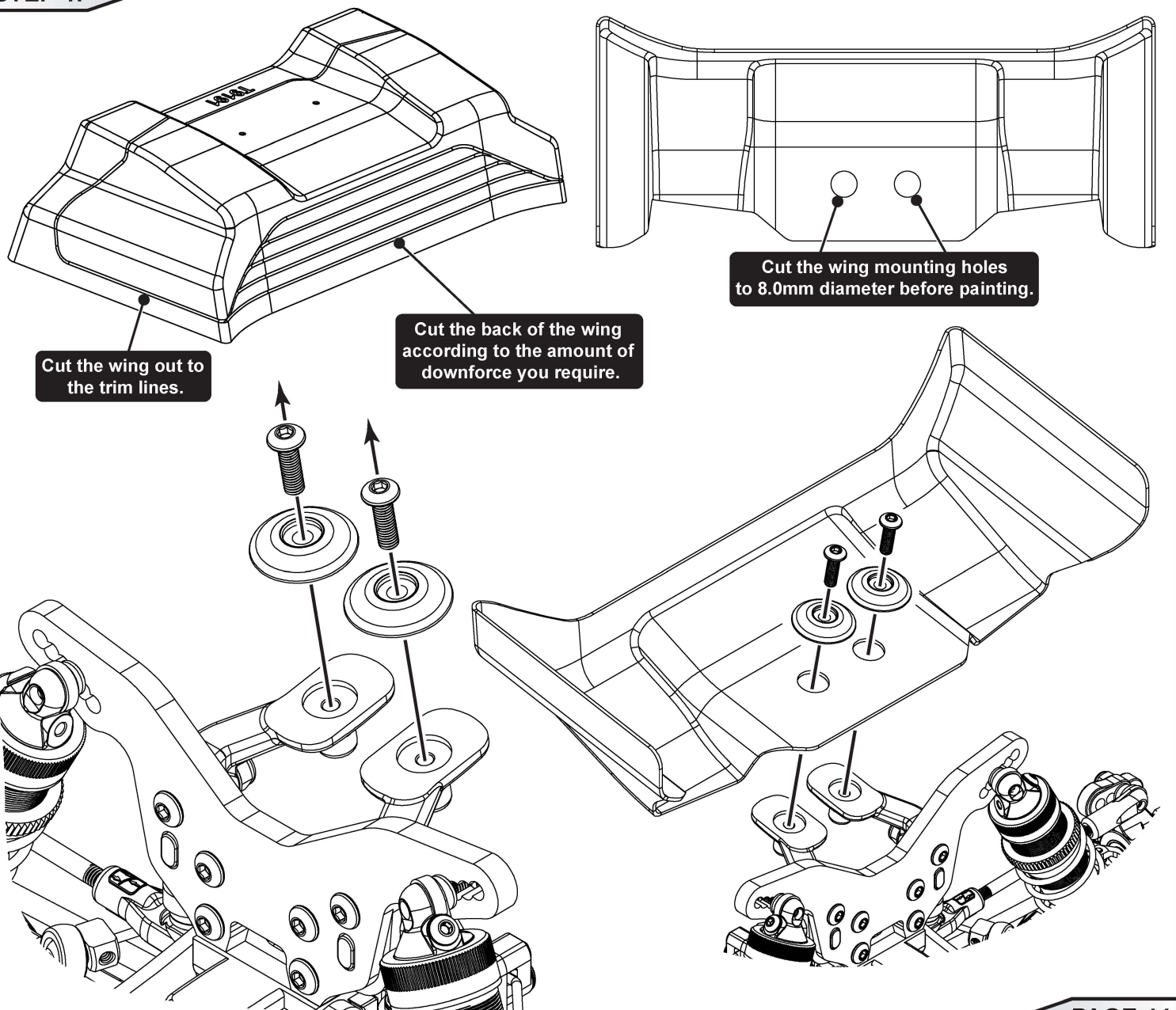
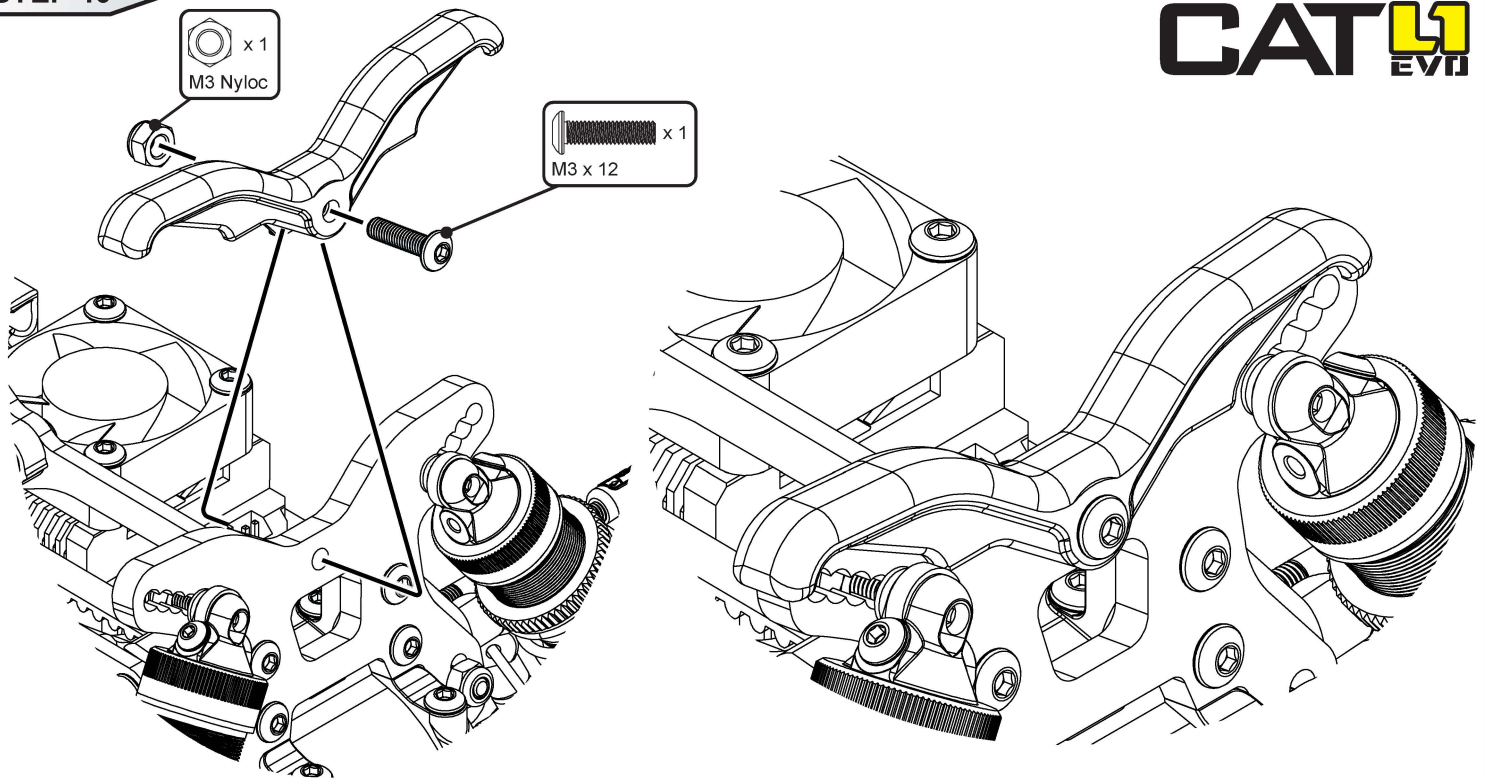
Regular LiPo posts

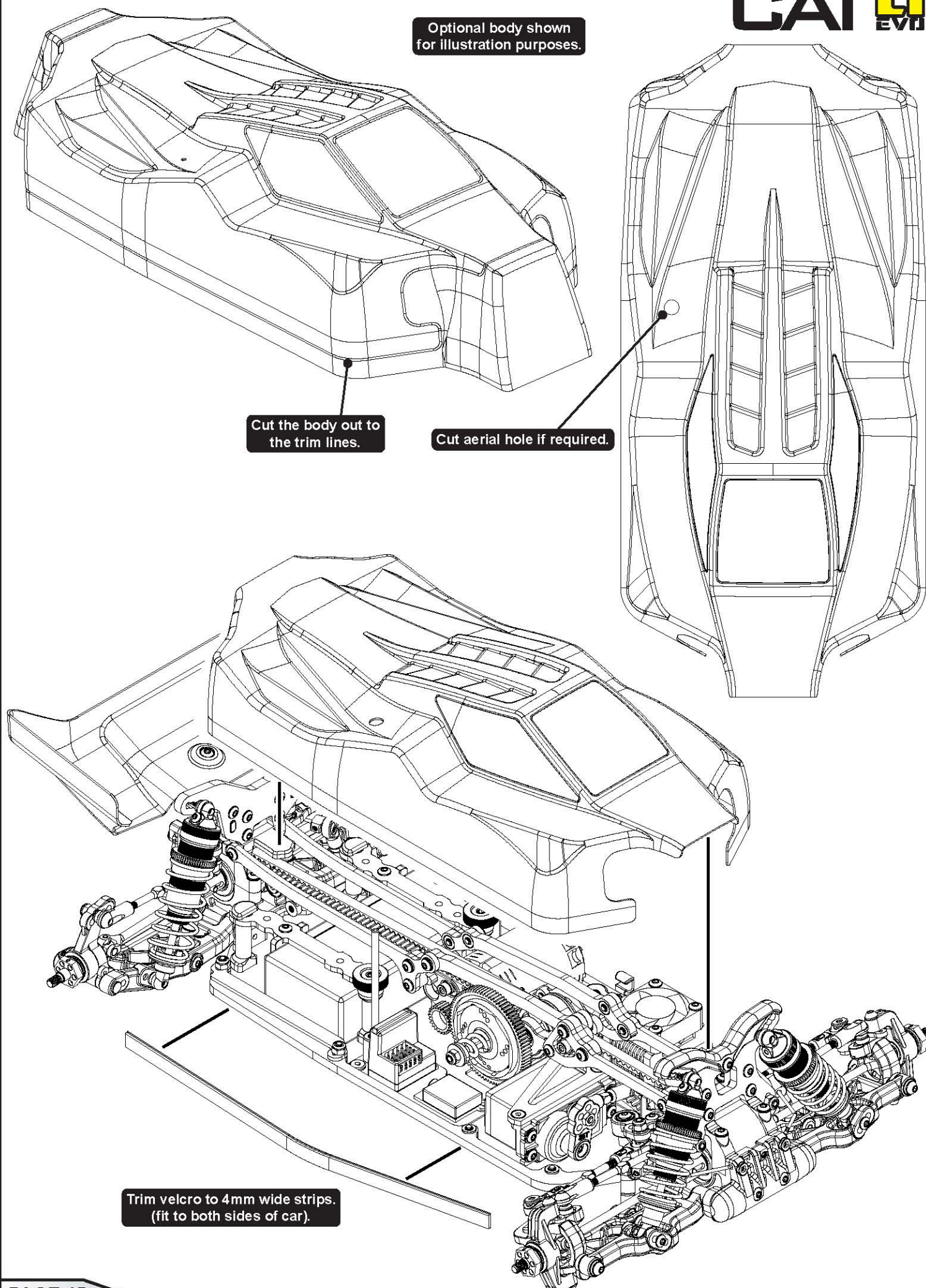




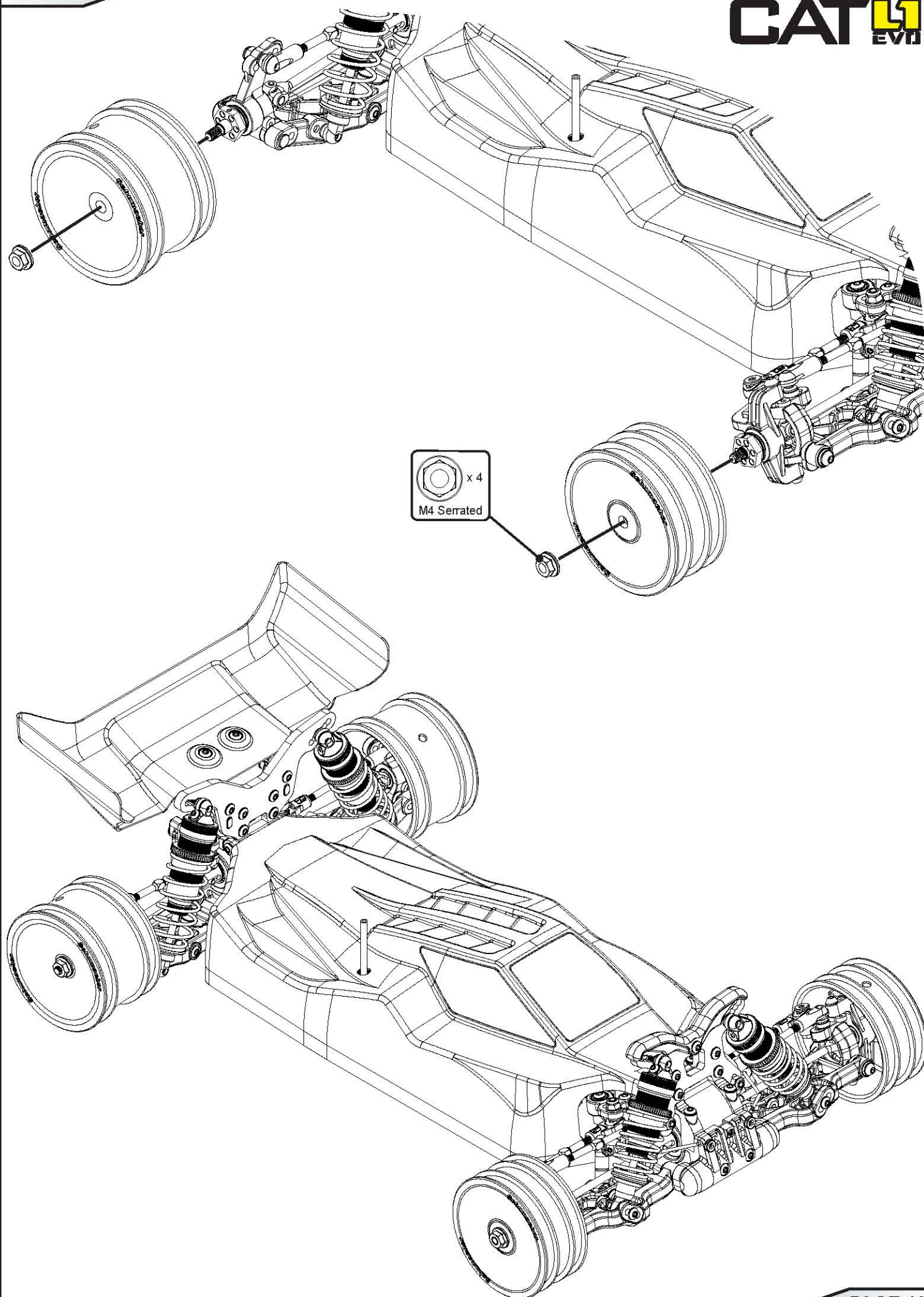






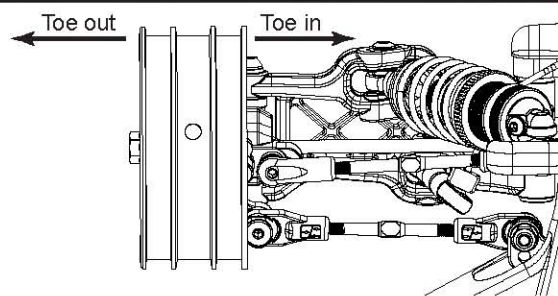






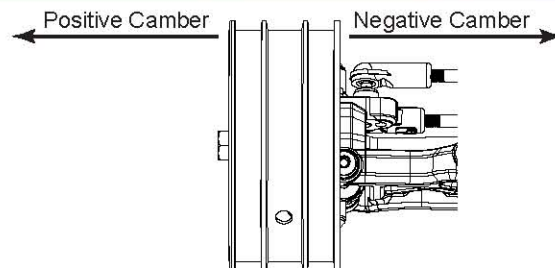
## Front Toe

The team generally run  $1^\circ$  toe out, this will be the best setting for most track conditions. Adding slight toe out will increase initial turn in. 0 toe will make the car more reactive on the exit of the corner.



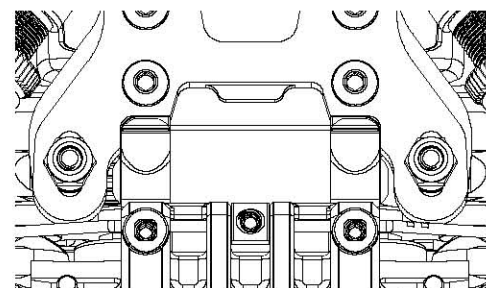
## Front Camber

The usual team setting for static front camber is  $1^\circ$  -  $2^\circ$  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. For dirt tyres with a flatter profile use between  $0.8^\circ$  -  $1.5^\circ$  to keep the contact patch more consistent.



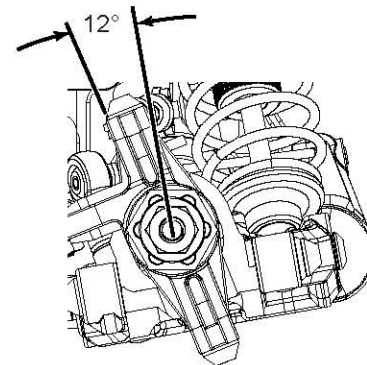
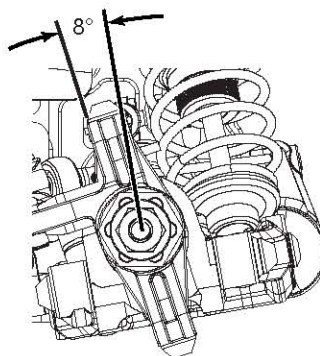
## Front Camber Links

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 initial steering at high speed. It is also not quite as good on very bumpy tracks. We would 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.



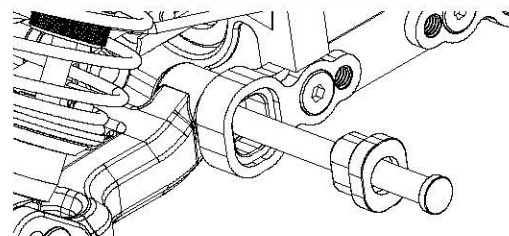
## Front Yoke / Caster Angle

The kit build uses Medium Flex 10 degree yokes with options of 8, 10 and 12 degree alloy versions. When using one of the alloy options the team generally uses 8 degree yokes. Decreasing the angle to 8 from the kit 10 offers more initial steering and on power stability so you can lean on the front out of the corner. 12 degrees does the opposite with stability into the corner and more on power steering. Running more Caster on the front also helps the car over bumpy conditions.



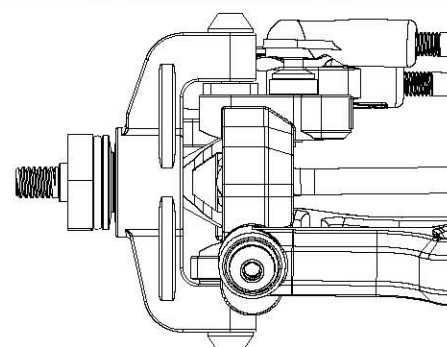
## Adjustable Rake Angle and Track Width

Less rake will give more on power steering but off power stability will be reduced. More rake will go through the bumpy sections easier and you will be able to lean on the car when going through the corners. Running the inserts narrow will give the most steering, using the wider setting will increase stability.



## Front Yoke Height and Front Hub Height

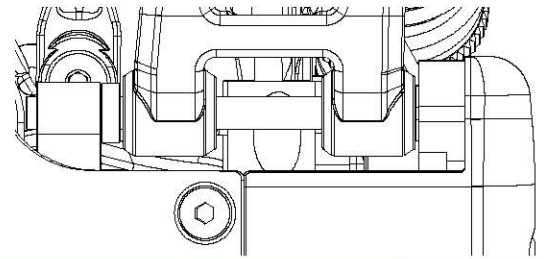
By changing these settings you will be adjusting the axle height. When changing the height with the clip you move the axle 1.5mm and when you change the height with the yoke holes it moves it 3.5mm. If you change the holes in the yoke then you will have changed the front link angle so bear this in mind as you can always compensate for this with washers. When you raise the axle you will gain on power steering and when you go into the corner under braking you will have a safer car which will have less initial steering. When you lower the axle you will gain initial steering and when on power you can lean on the front more and will have the feeling of more drive from the front. If you find the back of the car breaking loose on power out of corners this is normally because of either the axle being too high or too much caster angle.





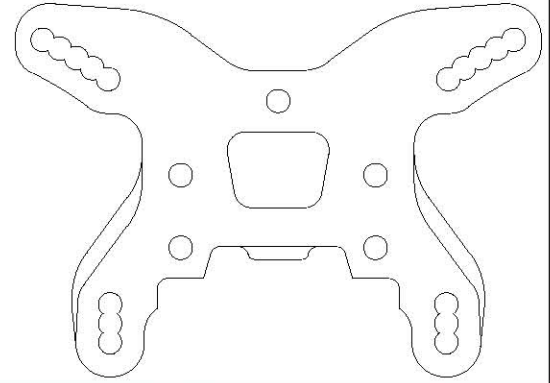
## Front Wheelbase Options

Moving the front wishbones backwards offers more load transfer when loading up the front going into the corner. This will promote more steering in general as there is more pressure over the front wheels. This change also means the drive shaft angle has increased, so naturally gives the car more drive. But all of that comes at the price of bump handling. A softer damper setup would be used in this case.



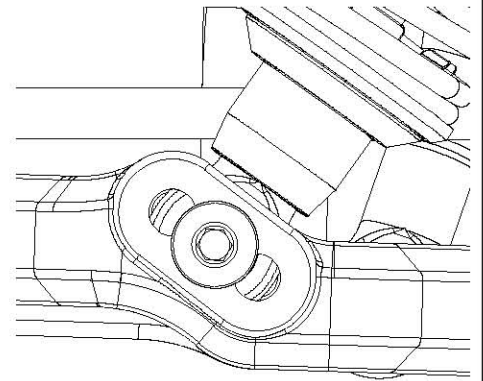
## Front Shock Mount

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. Moving the shock to the inner hole will soften the suspension, slow down 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 to feel the same.



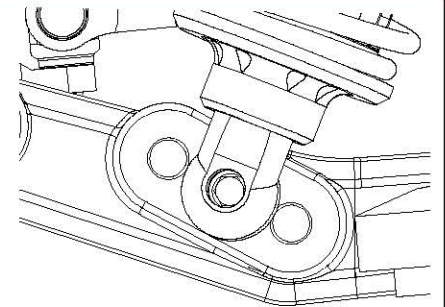
## Front Wishbone Shock Mounting Hole

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 the car to have a little too much initial steering. Using the inside hole will soften the suspension 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.



## 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. If the grip level is low and the track is bumpy, try the inside hole with a harder spring and a thicker oil.



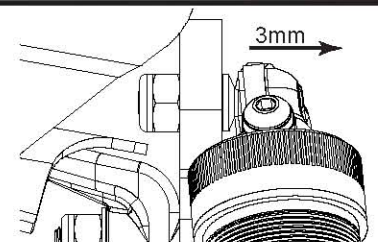
## Rear Shock Spacing Top

Angling the top of the rear shock forwards 3mm will help jump landings with the sacrifice of bump handling, it also increases initial steering.

You will need to fit a longer ball stud and add washers to do this.

**U4700 - Pro Ball Stud - Ultra Long**

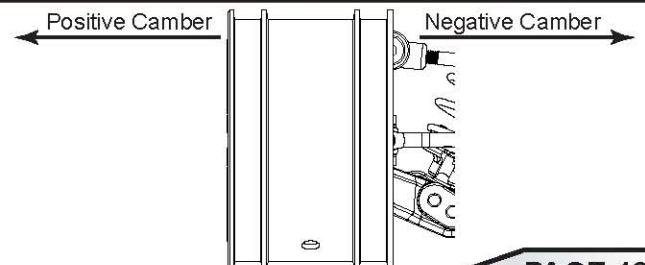
**U7712 - M3 Black Alloy Washers 3.00mm (pk10)**



## Rear Camber

The usual team setting for static rear camber is 1°- 2° negative at ride height (the top of the wheel is leaning inwards towards the car). Decreasing the static camber will generally increase the mid corner steering, whereas increasing the static camber usually makes the car smoother to drive by reducing the steering response.

For dirt tyres with a flatter profile use between 0.8°- 1.5° to keep the contact patch more consistent.



## Rear Camber Link

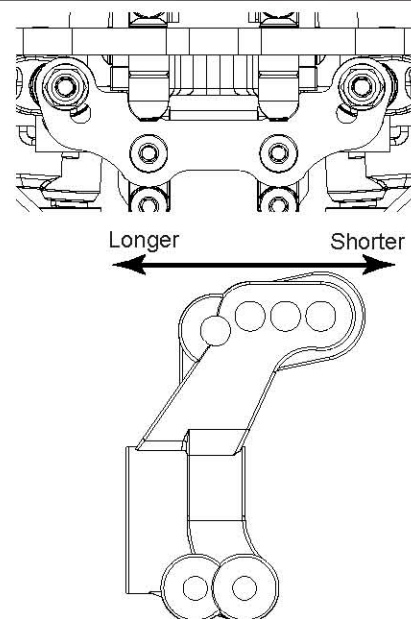
The rear camber link position can be changed on the rear camber plate and on the rear hub.

You can lower the ball stud on the camber plate as well as using the different hole positions. Lowering the ball stud by adding washers increases grip/traction and removing washers decreases traction.

For carpet tracks the team will raise the ball stud and run 1mm or even 0mm under the ball stud if the rear end is too locked in and they want to free the car up. In some cases the team have run 5mm of washers on super low grip tracks but you will need the alloy speed secret **U7408** to do this. Also the 2mm spacer on the rear anti-roll bar link would need to be removed otherwise the turnbuckle will foul on the roll-bar link. 4mm of washers is the maximum you can run on the carbon plate, which is all that's needed 99% of the time.

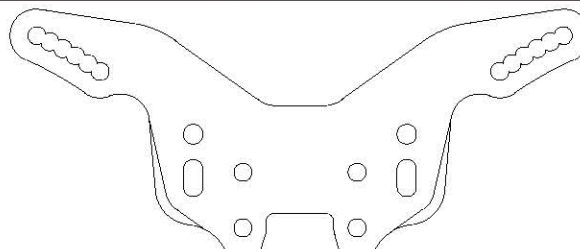
The wider setting stops the car from rolling as much and makes the car more responsive. The inner position, therefore lengthening the link, will make the car roll more and gain side traction. With this change you will have a less responsive, easier to drive car with a little less forward traction. The team use the outer/widest hole on the camber plate as this offers good drive and steering in the middle of the corner.

When lengthening the rear link on the hub you will gain more side traction and roll, the car will also carry more corner speed but isn't as reactive to steering input. A longer link increases on power steering but you will find the rear end is locked in when you lead the car into the corner and you won't be able to rotate the car as easily as before. Shortening the link will increase forward drive at the expense of side traction going into the corners. You will also find, on some tracks, the short link can lock the rear end in on power, so you will have good forward traction but the car may not turn so well on power. This setting will make a big difference to the feeling of the car.



## Rear Shock Mount

The third hole on the shock mount gives the best all round results. Moving the shock to the outer hole will stiffen the suspension and increase initial steering. However the car won't be as compliant 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.



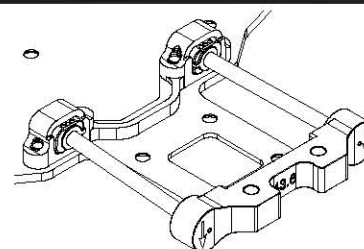
## Rear Toe-In Blocks

The standard rear toe in is  $3^\circ$  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.

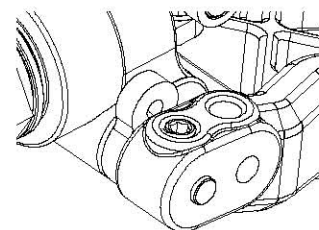
Usually the team use less toe in on high grip tracks and more on low grip tracks.



## Variable Length Wishbone

The base setting is long wishbone. This setting gives the most on power steering and is the most stable on jump landings.

The short wishbone setting will give more rear grip on loose surfaces. When running this setting you need to soften the suspension.



## Rear Anti Squat Spacers

The strap is in the low pin position when the arrows are pointing down, the standard antisquat is set at  $2^\circ$ . The team have found that this works best on most tracks, and with the included parts this can be increased or decreased.

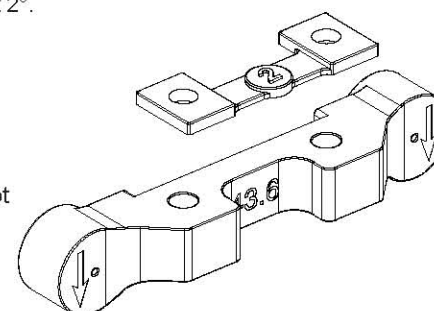
Generally less antisquat allows the suspension to work better over large bumps but usually gives less power on traction.

Increasing antisquat gives more forward traction, up to the point that the car starts to pull wheelies.

Backing off the slipper is not always an option to compensate for this as good initial drive is needed to clear big jumps. Reducing the antisquat seems to make the car handle better over small ripples but not large bumps.

**When using the rear strap with arrows up (high pin) you MUST fit U7977 - C/F RF Strap Spacer.**

With the spacer fitted you have raised the roll centre. This will stiffen the car in roll, which should make the car change direction quicker, but with a loss of side bite. We recommend this setting for tight high grip tracks. The high pin position increases forward traction.

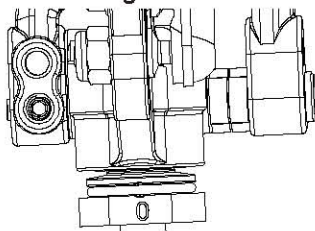




## Rear Wheelbase Options

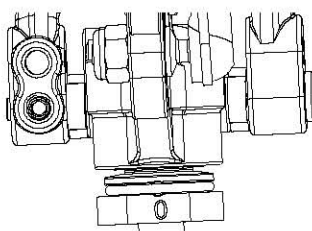
The CAT L1 Evo has 3 wheelbase options at the rear, short, mid and long. This can be adjusted by repositioning the kwik clips on the outer wishbone pin. Moving the rear hub carrier forwards will give more traction at the expense of stability over rough sections of the track, and moving the hub carrier to the middle or rear position usually improves stability over the rough sections, running the car in the long wheelbase position also frees up the car on sweeping sections of the track.

Long Wheelbase

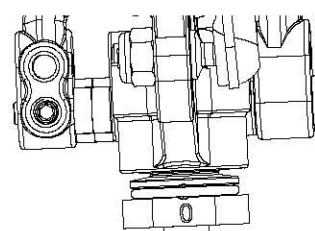


(Kit Setting)

Mid Wheelbase



Short Wheelbase

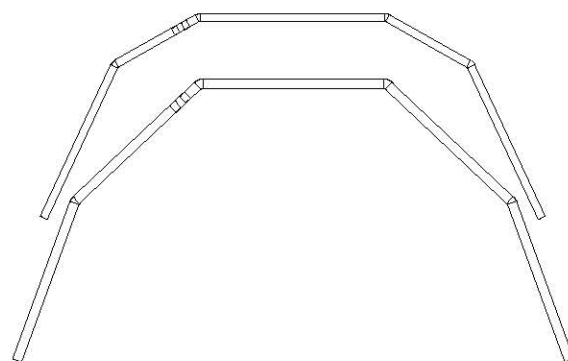


Front of car



## Anti-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 anti-roll bars allows you to run softer suspension on bumpy tracks while reducing the roll in corners thus maintaining stability through the turns. If you find the rear wheel is picking up when going into the corner it can be either the rear roll bar is too stiff or the front roll bar is too soft. If this does not fix it, soften up the rear of the car by lengthening the link slightly or laying the shock over to increase roll. If the rear wheel is still lifting, stiffen the front of the car. If the front wheel is lifting up coming out of the corner then go through the same procedure to stop this happening.

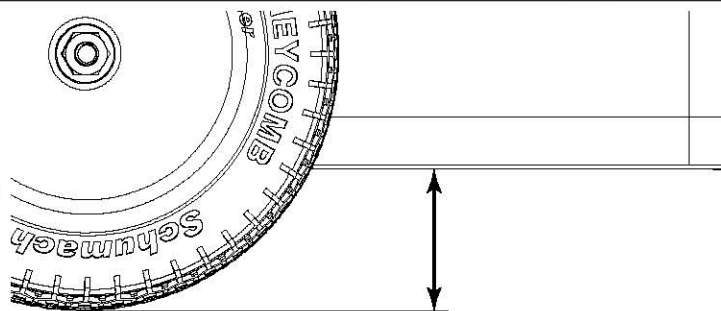


## Ride Height

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

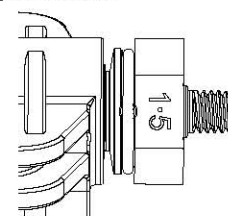
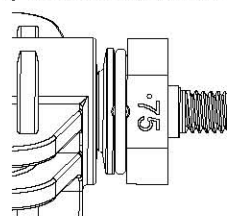
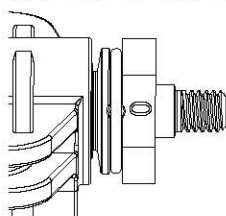
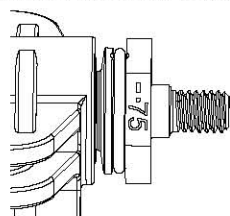
For carpet tracks use 14-16mm as a starting point for ride height.

For clay tracks use 20-22mm as a starting point for ride height.



## Hex Width

The hex width in the kit is 0mm, with the use of the option hexes you can narrow and widen the track of the car. Widening the rear Hex will give more forward drive and more initial steering, which comes at a cost to side traction. To get more side traction on the rear use a narrower Hex as this will allow the car to roll a little more on the side of the tyre. This will also give you more on power steering due to the added roll to the rear of the car. For the front of the car, as the axle is connected to the steering hub, a wider hex makes the car more aggressive. So by running a narrower hex the car is smoother and easier to drive. A wider front hex is usually used on tracks with lots of slow, tight, corners.



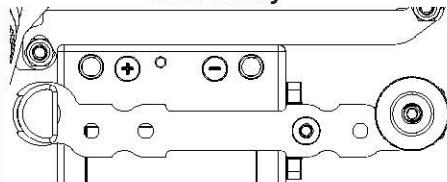
## LiPo Position

There are 3 shorty LiPo positions available to fine tune the chassis weight balance.

For increased steering run the front LiPo position.

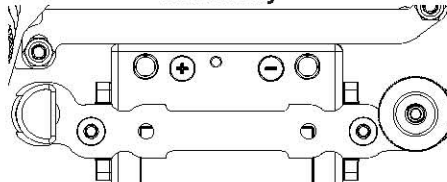
The team generally run the forward position on all surfaces. Moving it back makes the car more neutral. It does not increase rear traction as it overloads the car and adds pendulum.

Rear Shorty

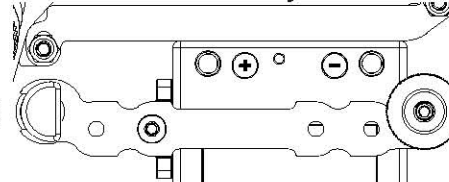


(Kit Setting)

Mid Shorty



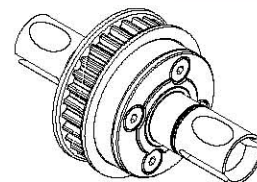
Front Shorty



Front of car

## Gear Differential

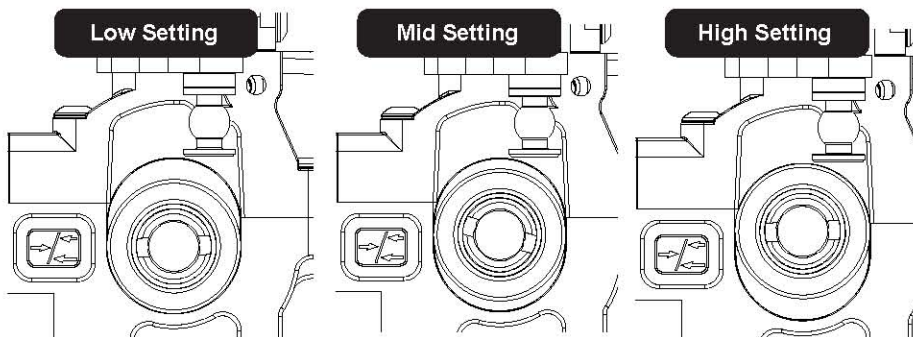
Geared Diffs can give different driving characteristics. The handling of the diff is tuned by changing the oil. A recommended starting point is 12,000 cSt (CR229). Recommended option oils would be 10,000 cSt (CR222) and 7,000 cSt (CR221). Running two gears will give more drive and off power steering. Use 7,000cSt on high grip tracks, if you start spinning a wheel on power, go up on oil until it stops. We recommend changing the oil more often when running 2 gears.



## Differential Height

The L1 Evo has diff height adjustability on the front and the rear. When we lower the rear diff we gain traction on low grip conditions, it allows the car to roll while the transmission is loaded up. When we raise the diff we lose grip, the high diff position is the position the team runs to give the car more rotation on most surfaces. On dirt we like to use low diff in most cases.

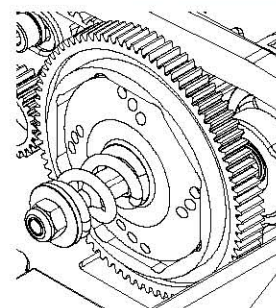
The front diff when in the high position is like the rear but you lose steering as well.



## Slipper Clutch

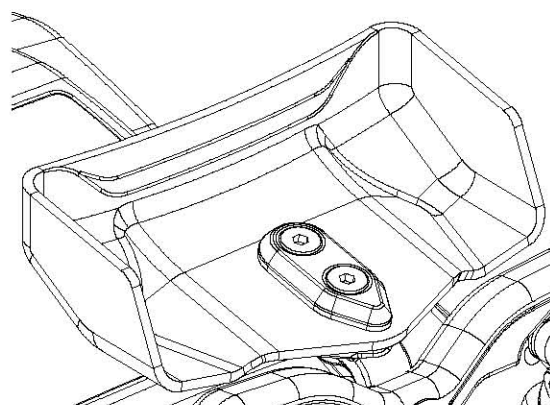
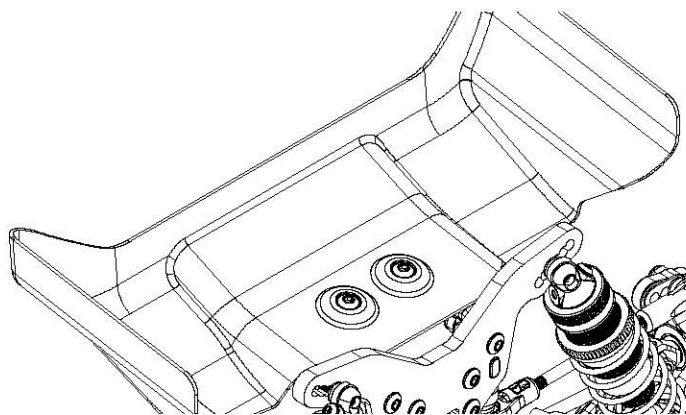
On most tracks it is best to start with the slipper on a **LOOSE** setting, and gradually tighten the spring tension until you achieve the most consistent drive away from turns without spinning the car or pulling wheelies. Make sure you still have enough drive when launching the car from the up ramps.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

If you are generating too much heat at your preferred setting, use the **U7418 - 3 Plate Slipper Clutch Conversion** this will give you a more durable slipper clutch.



## Front and Rear Wings

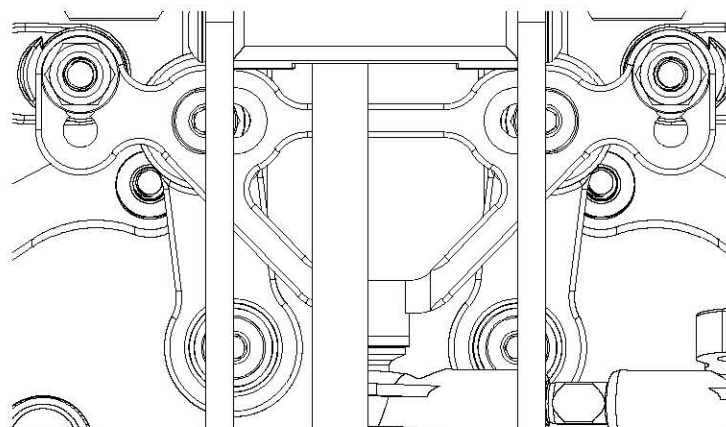
The front wings will add more downforce to the front of the car, use the large wing for maximum downforce. Trimming the gurney on both front and rear wings will reduce downforce.



## Ackerman

Using the kit most forward ackerman setting will smooth the steering out, the rearward setting will make the car more aggressive.

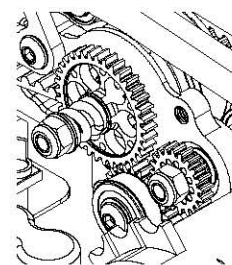
Using the inboard setting (radius arms parallel) will calm the steering down with a slower response. Using the outer hole will make the steering feel more lively.





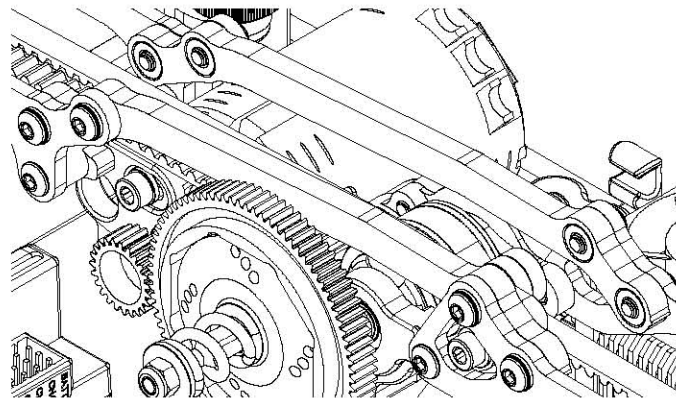
## F.A.B.

The front adjustable brake (F.A.B.) should be set tight with a small amount of slip to stop the car loading up the front too much and causing grip roll. As you loosen the F.A.B. you will get more initial steering but reduced braking.



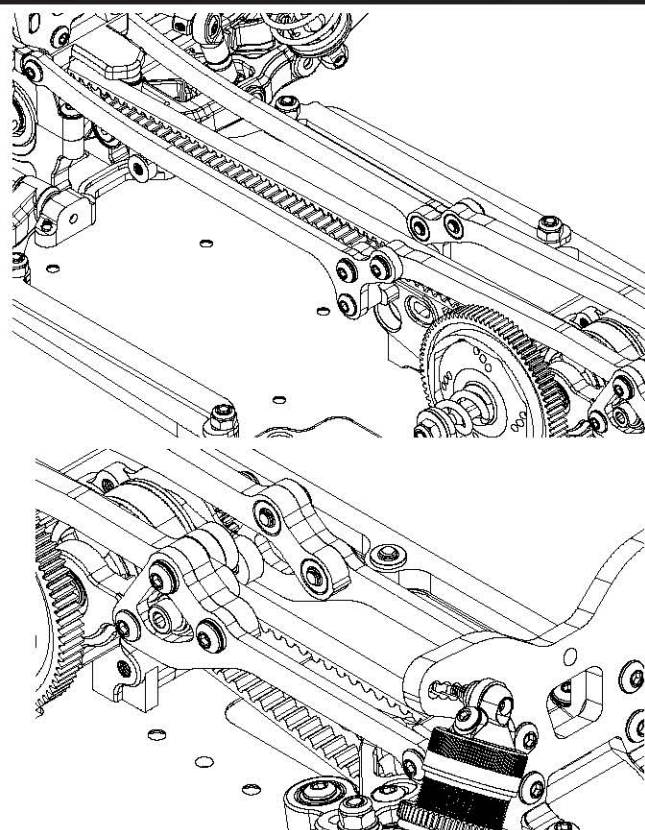
## Topdecks

Using the thicker front and rear topdecks (U7409 - CAT L1 C/F Front Topdeck 3.00mm and U7410 - CAT L1 C/F Rear Topdeck 3.00mm) will give more steering and make the car more reactive. The team use the 2.5mm kit topdeck to keep the flex in the car.



## Belt Settings

It is important to run the front Belt tighter than the rear. It is also important not to over tighten the rear belt as it will promote a rear braking action and on lower grip surfaces you will find the back of the car unstable when off power. A tiny amount of belt skip on the upslope of the jump when the chassis is flexing is ok, if you over tighten the rear belt you will suffer failures.



## Gear Ratio's (2.45:1)

## Pinion Gear

Spur Gear

	17	18	19	20	21	22	23	24	25	26	27
83	11.96	11.29	10.70	10.16	9.68	9.24	8.83	8.47	8.13		
82		11.16	10.57	10.04	9.56	9.12	8.73	8.36	8.03	7.72	
80				9.79	9.33	8.90	8.51	8.16	7.83	7.53	7.25
78						8.69	8.31	7.96	7.64	7.35	7.10

Tooth Sum 100 Minimum to 108 Maximum

**CR280** - Ti Pro Ball Studs - Short - (pr)  
**CR282** - Ti Pro Ball Studs - Long - (pr)

**CR697** - Alloy Servo Arm Offset Short - 25T Futaba  
**CR698** - Alloy Servo Arm Offset Short - 23T SANWA

**U7313** - Titanium Turnbuckle - 24mm - Silver - pr  
**U7317** - Titanium Turnbuckle - 45mm - Silver - pr  
**U7318** - Titanium Turnbuckle - 53mm - Silver - pr

**U4177** - Gear Diff Rebuild Kit - K1/KF/Laydown (steel pins)  
**U7321** - Gear Diff Alloy Cross Pin - KD/KC/K2 - pr

**U7401** - Roche Double Jointed Front D/Shaft - CAT L1 (pr)

**U7400** - Titanium Low Profile M4 Serrated Nut (pk4)

**U3348** - Gear; CNC 80t Spur - Slipper  
**U3350** - Gear; CNC 82t Spur - 2/4 Plate Slipper  
**U7417** - 83T 3 Plate Slipper Spur Gear  
**U7418** - 3 Plate Slipper Clutch Conversion KC/KD/L1  
**U7425** - 3 Plate Slipper Alloy Disk  
**U7615** - 80T 2,3,4 Plate Slipper Spur Gear  
**U7616** - 78T 2,3,4 Plate Slipper Spur Gear CNC

**U7093** - Front Wings - Cougar KC/D  
**U7429** - Front Wing Mount Mouldings - CAT L1

**U7405** - Titanium Front Inboard Pivot Pin - CAT L1 (pr)  
**U7406** - Titanium Rear Inboard Pivot Pin - CAT L1 (pr)

**U7424** - Alloy Lightweight LiPo Nut - (pr)

**U7683** - C/F HD Front Top Decks 3.0mm - CAT L1 pr  
**U7684** - C/F HD Rear Top Decks 3.0mm - CAT L1 pr  
**U7983** - S2 2.0mm Front Topdeck - CAT L1 EVO (pr)

**U7412** - Alloy Rear Hub Carriers - Off Road (pr)  
**U7444** - Alloy Hub Carrier Inserts - pr

**U7419** - Titanium M4 x 20 Grub Screw (pr)

**U7404** - Alloy Radius Arms - CAT L1 (pr)

**U7402** - Alloy Wheel Hex 6.75mm - CAT L1 (pr)  
**U7403** - Alloy Wheel Hex 7.5mm - CAT L1 (pr)  
**U7646** - Alloy Wheel Hex (-0.75) - Cougar-Laydown (pr)

**U7408** - Alloy Rear link Mount - CAT L1

**U7979** - Alloy Diff Conversion - CAT L1 EVO  
**U7981** - C/F Diff Mouldings - CAT L1 EVO  
**U7992** - Alloy Diff Complete - CAT L1 EVO

**U7393** - Front Yokes 10 Deg - CAT L1 (pr)  
**U7413** - Alloy Yoke 8 Deg - CAT L1 (pr)  
**U7414** - Alloy Yoke 12 Deg - CAT L1 (pr)  
**U7443** - Alloy Yoke 10 Deg - CAT L1 (pr)

**U7989** - Titanium Layshaft Lockout - CAT L1 EVO  
**U7990** - Alloy Thrust Plate Lockout - CAT L1 EVO  
**U7991** - Layshaft Lockout Conversion (Stock) - CAT L1 EVO

**U4890** - Alloy Spring Seat - Off Road - pr  
**U7982** - Alloy Spring Seat High - Off Road (pr)





**U7472 - Titanium Captive Ball Joint - Short (pr)**

**U7473 - Titanium Captive Ball Joint - Long (pr)**



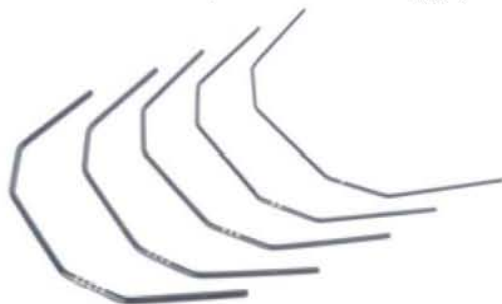
**U7333 - Rear Wishbones - CAT L1 (pr)**

**U7490 - C/F Wishbones Rear - CAT L1 (pr)**



**U7334 - Front Wishbones - CAT L1 (pr)**

**U7491 - C/F Wishbones Front - CAT L1 (pr)**



**U7386 - Front Roll Bar Set - CAT L1 (7pcs)**

**U7387 - Rear Roll Bar Set - CAT L1 (8pcs)**



**U7377 - C/F Front Shock Mount - CAT L1**

**U7378 - C/F Rear Shock Mount - CAT L1**



**U7492 - C/F Front Bumper - CAT L1**



**U7342 - Alloy LH Upper Rear Trans - CAT L1**

**U7348 - Alloy LH Upper Front Trans - CAT L1**

**U7349 - Alloy RH Upper Front Trans - CAT L1**

**U7967 - Alloy Upper RH Rear Trans - CAT L1 EVO**



**U7338 - Dirt Covers - CAT L1 (3pcs)**



**U7383 - C/F Shorty Spacer - CAT L1 (pr)**



**U7415 - Brass ESC Tray - CAT L1**

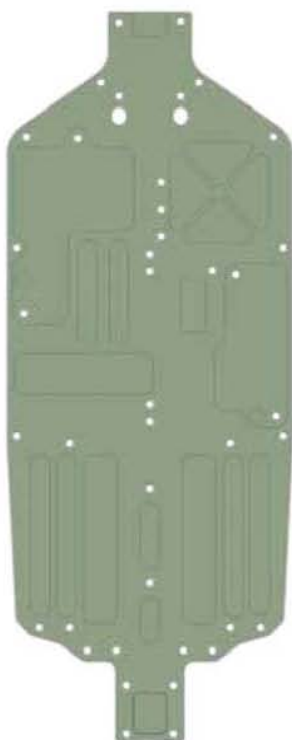
**U7416 - Brass Receiver Tray - CAT L1**



**U7373 - C/F Side Pod - CAT L1 (pr)**



**U4350 - Shims 5x7x0.1mm - pk8**



**U7449 - Alloy Chassis Extra Flex - CAT L1**



**U7984 - Alloy LiPo Posts Short - KC,KD,LD,L1 & L1 EVO (pr)**

**U7985 - Alloy LiPo Post Spacer - KC,KD,LD,L1 & L1 EVO (pk4)**



**U7975 - Alloy Eccentric Mid - KC,KD,LD,L1 & LE EVO (pr)**

**U7976 - Alloy Eccentric Hi-Lo - KC,KD,LD,L1 & L1 EVO (pr)**



**U7972 - C/F 2.0mm Rear Trans Spacer - CAT L1 EVO**



**U7977 - C/F RF Strap Spacer - CAT L1 EVO**



**U7978 - Brass Front Strap - CAT L1**

2WD Slim Mini Spike 2



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

2WD Slim 2 Row Stud



T654 - Yellow Compound (pair)

4WD 2 Row Stud



U6797 - Yellow Compound (pair)

4WD Wide Stagger Rib



U6810 - Yellow Compound (pair)  
U6811 - Silver Compound (pair)

4WD Mini Spike 2



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

4WD Mini Pin



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

4WD 2.2" Full Spike



U6595 - Yellow Compound (pair)

'The Original' 2"  
4WD Full Spike



T652 - Soft Compound (pair)

4WD 2" Block



T693 - Blue Compound (pair)  
U6787 - Yellow Compound (pair)

4WD Mini Pin 2



U6821 - Yellow Compound (pair)

Rear Mini Pin



Rear 2" Block



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

'The Original'  
Rear 2" Full Spike



T650 - Soft Compound (pair)

Rear 2.2" Full Spike



U6596 - Yellow Compound (pair)

Rear Mini Spike 2



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

Rear Mini Pin 1



U6817 - Yellow Compound (pair)  
U6819 - Blue Compound (pair)  
U6820 - Silver Compound (pair)

Rear Mini Pin 2



U6803 - Blue Compound (pair)  
U6804 - Yellow Compound (pair)  
U6805 - Silver Compound (pair)

4WD Mini Dart



U6825 - Yellow Compound (pair)  
U6828 - Blue Compound (pair)  
U6831 - Silver Compound (pair)

Rear Mini Dart



U6826 - Yellow Compound (pair)  
U6829 - Blue Compound (pair)  
U6832 - Silver Compound (pair)

4WD Cactus



U6840 - Yellow Compound (pair)  
U6843 - Silver Compound (pair)  
U6845 - Blue Compound (pair)

Rear Cactus



U6838 - Yellow Compound (pair)  
U6842 - Silver Compound (pair)  
U6844 - Blue Compound (pair)

Rear Mini Spike 2"



U6849 - Yellow Compound (pair)

4WD Cactus Fusion



U6855 - Yellow Compound (pair)  
U6857 - Blue Compound (pair)  
U6858 - Silver Compound (pair)

4WD Honeycomb



U6861 - Yellow Compound (pair)

Rear Honeycomb



U6863 - Yellow Compound (pair)

## Foam Inserts

Medium Front

Rear



CR688 - Closed Cell (pair)  
MC0001 - Cragg KWF (pair)  
U6652 - Hard (pair)  
U6733 - Med (pair)  
U6746 - Med Tubby (pair)  
CR687 - Closed Cell (pair)  
MC0002 - Cragg KWF (pair)  
U6653 - Hard (pair)  
U6668 - Soft Ultra Wide (pair)  
U6669 - Hard Ultra Wide (pair)  
U6734 - Med (pair)  
U6747 - Med Tubby (pair)

## Wheels

Neon Yellow

U7458 - 4wd Front (Pair)  
U7459 - 4wd Front (5 Pairs)  
U7460 - Rear (Pair)  
U7461 - Rear (5 Pairs)

White

U4366 - Rear (Pair)  
U4496 - 4wd Front (Pair)  
U7468 - 4wd Front (5 Pairs)  
U7469 - Rear (5 Pairs)

Black

U4365 - Rear (Pair)  
U4495 - 4wd Front (Pair)



## Pre-Glued

White 12mm Hex Wheels

4WD FRONT

Yellow

U6791 - Mini Pin  
U6793 - Mini Spike2  
U6812 - Wide Stagger Rib  
U6822 - Mini Pin 2  
U6834 - Mini Dart  
U6841 - Cactus  
U6856 - Cactus Fusion  
U6862 - Honeycomb

Silver

U6872 - Mini Dart

REAR

Yellow

U6794 - Mini Spike2  
U6806 - Mini Pin 2  
U6818 - Mini Pin 1  
U6835 - Mini Dart  
U6839 - Cactus  
U6864 - Honeycomb

Silver

U6873 - Mini Dart



		Tarmac	Carpet	Dry Astro	Dry Grass	Wet Grass	Wet Astro	Gym Floor
4WD Wide Stagger Rib	U6810 Yellow		★★	★★	★			
	U6811 Silver	★★					★★	
4WD Mini Spike 2	U6557 Yellow	★	★★	★★★★	★★★★			
	U6515 Green	★		★		★★★	★★	
	U6517 Blue	★			★★★★	★★		
	U6762 Silver	★★				★★	★★★	
4WD 2 Row Stud	U6797 Yellow		★	★	★★	★		
4WD 2" Block	T693 Blue							
	U6787 Yellow	★	★	★	★			
4WD Mini Pin	U6601 Blue	★	★★	★				
	U6607 Yellow	★	★★★★	★★				
	U6777 Silver	★★				★★	★★★	
4WD Mini Dart	U6825 Yellow	★	★★★★	★★★★				
	U6828 Blue		★	★★				
	U6831 Silver	★★					★★★	
4WD Cactus	U6840 Yellow	★	★★★★	★				
	U6843 Silver	★★						
	U6845 Blue		★★				★★	
4WD Cactus Fusion	U6855 Yellow	★	★★★★	★★				
	U6857 Blue		★★	★				
	U6858 Silver	★★					★★	
4WD 2.2" Full Spike	U6595 Yellow		★	★	★★			
'Original' 4WD 2.2" Full Spike	T652 Soft	★	★	★	★			
4WD Mini Pin 2	U6821 Yellow	★	★★	★★★★				
2WD Slim 2 Row Stud	T654 Yellow		★	★★	★★			
4WD Honeycomb	U6859 Yellow	★	★					★★★
2WD Slim Mini Spike 2	U6549 Blue		★	★★★★	★★★★			
	U6550 Green			★		★★★	★★	
	U6581 Yellow	★	★★	★		★★		
	U6761 Silver	★★				★★	★★	
'Original' Rear 2" Full Spike	T650 Soft	★	★	★★	★			
Rear Mini Pin	U6608 Yellow	★	★★★★	★★★★	★			
Rear Mini Spike 2"	U6849 Yellow	★		★★	★			
Rear Mini Spike 2	U6558 Yellow	★	★★	★★★★	★★★★			
	U6516 Green			★		★★★	★★	
	U6518 Blue		★		★★	★★		
	U6763 Silver	★★				★★	★★★	
Rear Mini Pin 1	U6817 Yellow	★	★★★★	★★★★	★			
	U6819 Blue		★★	★★				
	U6820 Silver	★★				★	★★★	
Rear Mini Pin 2	U6804 Yellow	★	★★★★	★★				★
	U6803 Blue		★					
	U6805 Silver	★★				★	★★★	
Rear Mini Dart	U6826 Yellow	★	★★★★	★★★★	★			
	U6829 Blue		★	★★				
	U6832 Silver	★★				★	★★★	
Rear 2.2" Full Spike	U6596 Yellow	★	★		★★	★		★★
Rear 2" Block	U6786 Yellow	★	★	★★★★				
	T692 Blue			★				
Rear Cactus	U6838 Yellow	★	★★★★	★★				
	U6842 Silver	★★					★	
	U6844 Blue		★★					
Rear Honeycomb	U6863 Yellow	★	★					★★★

Excellent Grip ★★★    Good Grip ★★    Fair Grip ★



**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



**Schumacher Arrows Hoody**

G348XS	Extra Small
G348S	Small
G348M	Medium
G348L	Large
G348XL	X Large
G348XXL	XX Large
G348XXXL	XXX Large



**Schumacher Gilet - Frost Grey**

G346S	Small
G346M	Medium
G346L	Large
G346XL	X-Large
G346XXL	XX-Large



**Schumacher Team RETRO TEE!**

G345S	- Small
G345M	- Medium
G345L	- Large
G345XL	- X-Large
G345XXL	- XX-Large
G345XXXL	- XXX-Large
G345XXXXL	- XXXX-Large



**Schumacher Arrows Zipped Hoody**

G349S	Small
G349M	Medium
G349L	Large
G349XL	X Large
G349XXL	XX Large



**Schumacher Arrows T-Shirt**

G347XXS	XX Small
G347XS	X Small
G347S	Small
G347M	Medium
G347L	Large
G347XL	X Large
G347XXL	XX Large
G347XXXL	XXX Large
G347XXXXL	XXXX Large
G347XXXXXL	XXXXX Large
G347XXXXXXL	XXXXXX Large



**Schumacher Snapback Flatbill Cap - Heather**

G360 One Size Fits All



**Schumacher Arrows Polo Shirt**

G350S	Small
G350M	Medium
G350L	Large
G350XL	X Large
G350XXL	XX Large
G350XXXL	XXX Large
G350XXXXL	XXXX Large
G350XXXXXL	XXXXX Large



**Schumacher Flexfit Cap - Grey**

G361	Small / Medium
G362	Large / X Large



**Towels**

G315 Schumacher Pit Towel