



COUGAR

Designed for Dirt!

SVR

Instruction Manual



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

Additional Items Required

Transmitter and Receiver (including batteries for tx)

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



Servo



Electronic Speed Control



Li-Po Battery



Motor



Pinion Gear

Battery Charger CR161



Paint



Shock Oil



C4450

CS Superglue 20g

Tyres and Inserts (See page 42)



Tools



U2818
Schumacher Body Reamer



5.5 A/F Combination Wrench



HW010 Wiha Precision
Circlip Pliers



CR044 Curved Body Scissors



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



U2795 M3 Nut Driver
U2796 M4 Nut Driver



ED190009 Turnbuckle Wrench 4mm



Soldering Iron
CR268 40w
CR275 80w

U3107 - Solder

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

AM
ARROWMAX

CORE-RC
COM

CS-ELECTRONIC

EDS
Specialized RC Tools

GM

NISSAN

RHEINARD
R33D

Speed Passion
RC Technology Revolution

THUNDER POWER RC

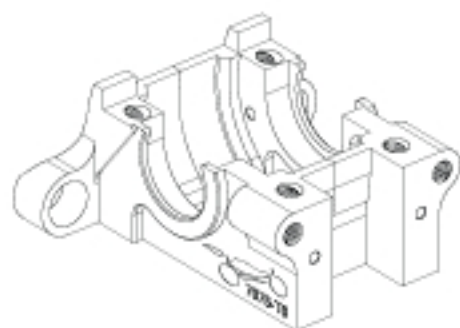
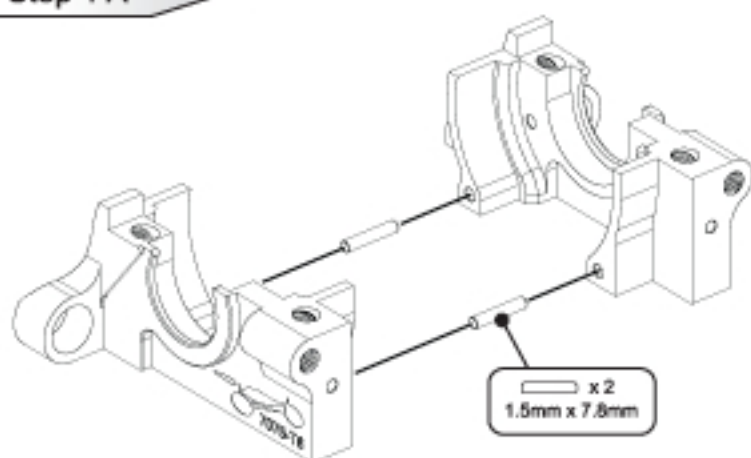
PLEASE NOTE THAT
SOME OF THE PRODUCT
RANGES ABOVE ARE
ONLY
AVAILABLE IN THE
UNITED KINGDOM.

IMPORTANT SAFETY NOTES

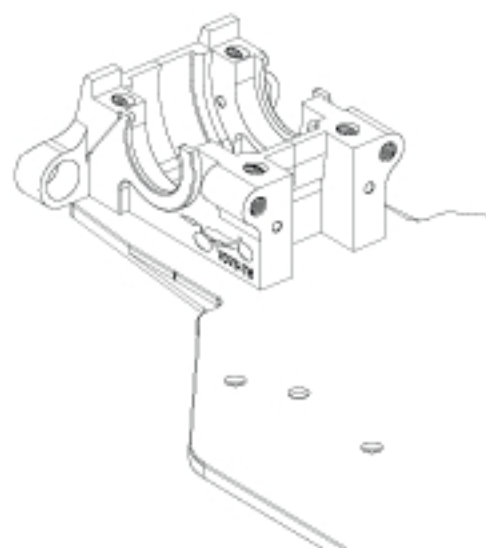
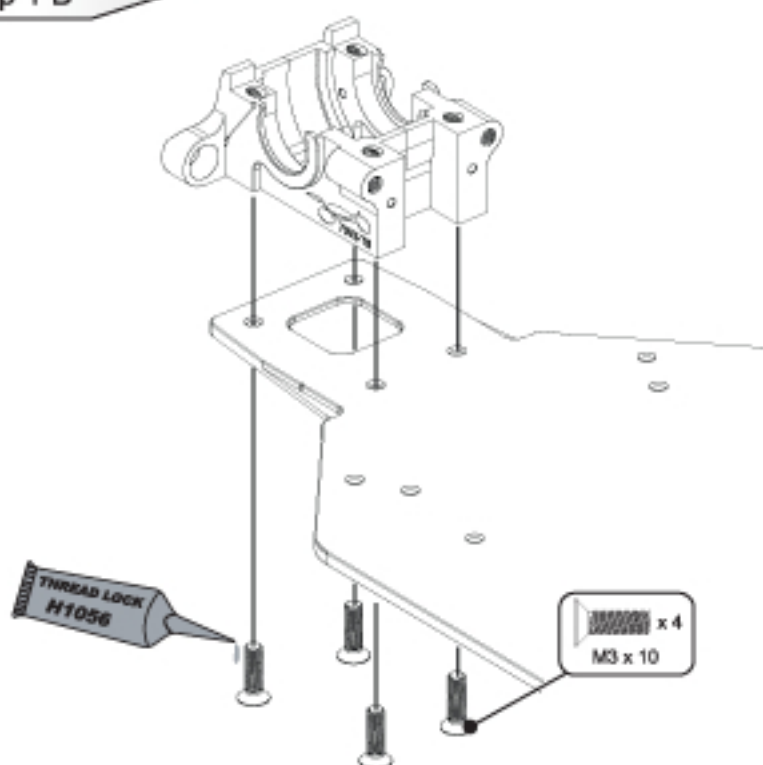
- This product is not suitable for children under the age of 14, without the direct supervision of an adult.
- Select an area for assembly that is away from the reach of small children. The parts in this kit are small and can be swallowed by children causing choking and possible internal injuries.
-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

Step 1 A

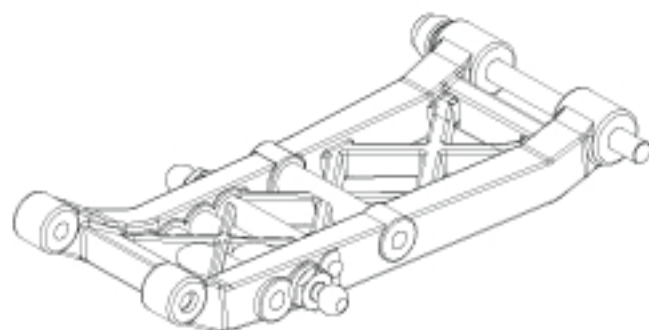
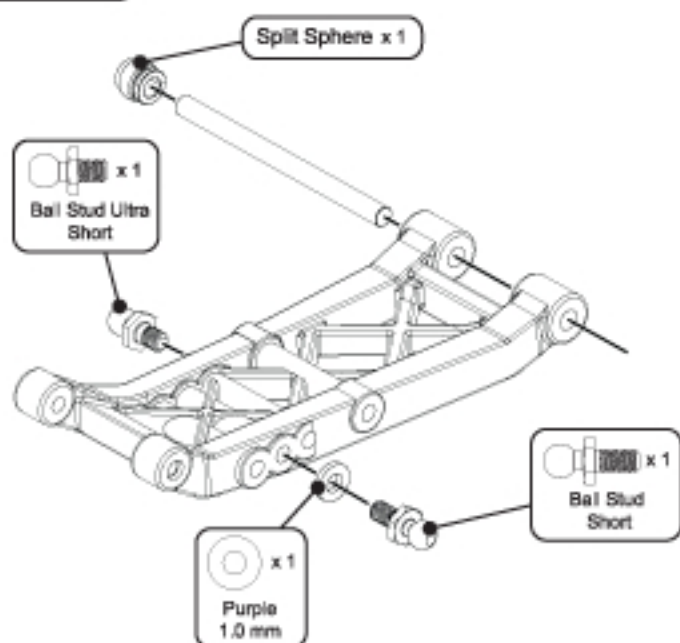
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Step 1 B



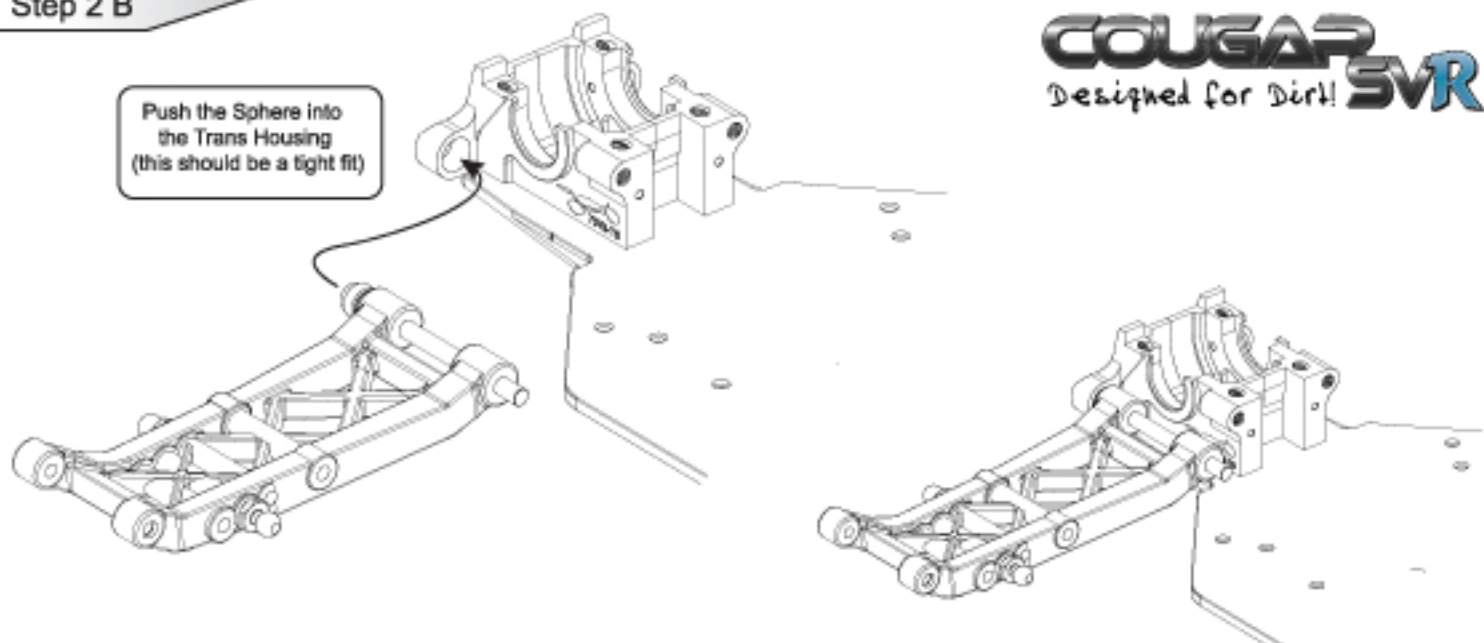
Step 2 A



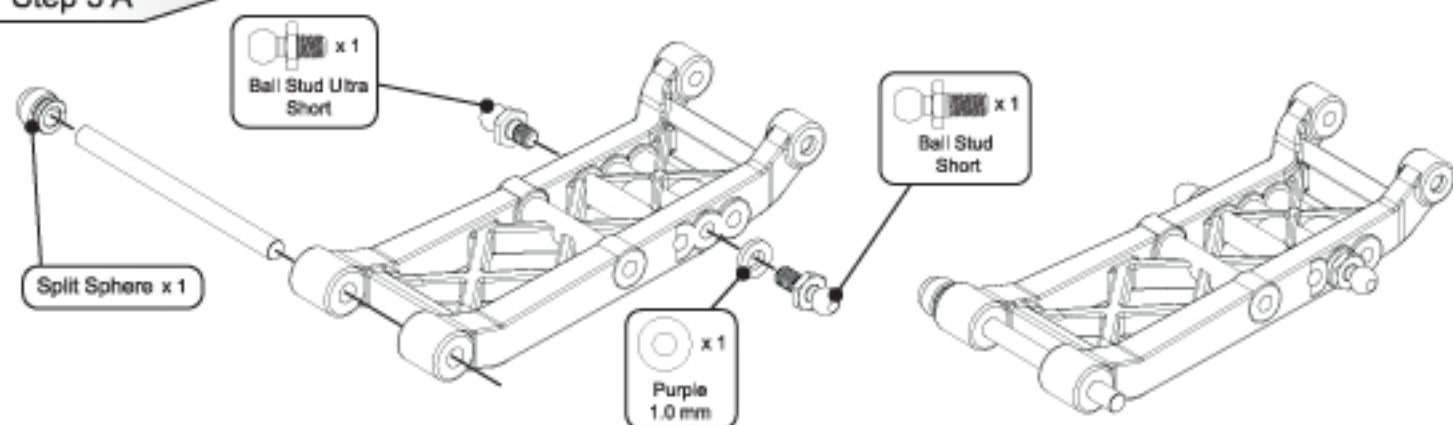
Step 2 B

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Push the Sphere into the Trans Housing (this should be a tight fit)

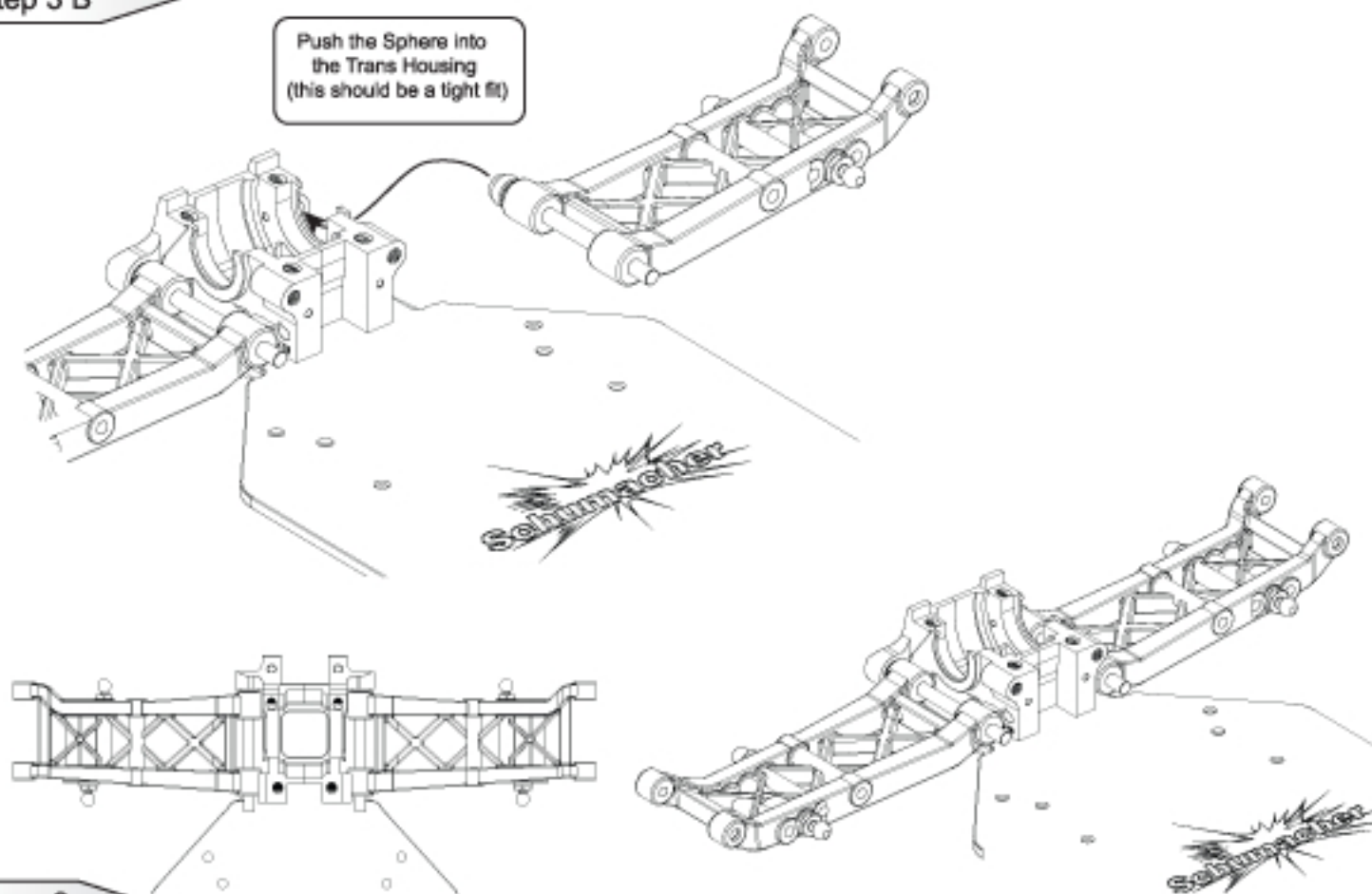


Step 3 A



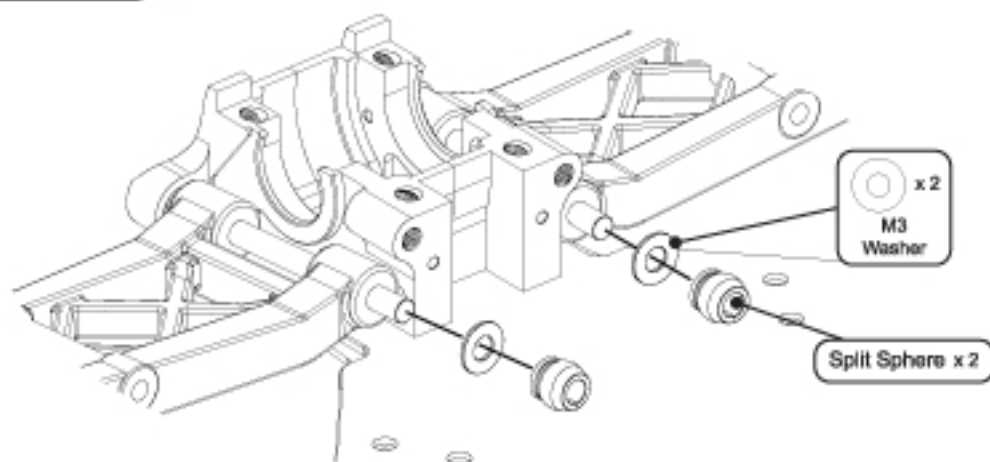
Step 3 B

Push the Sphere into the Trans Housing (this should be a tight fit)

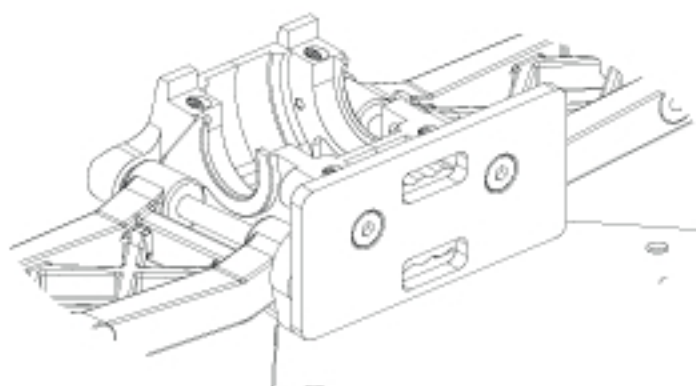
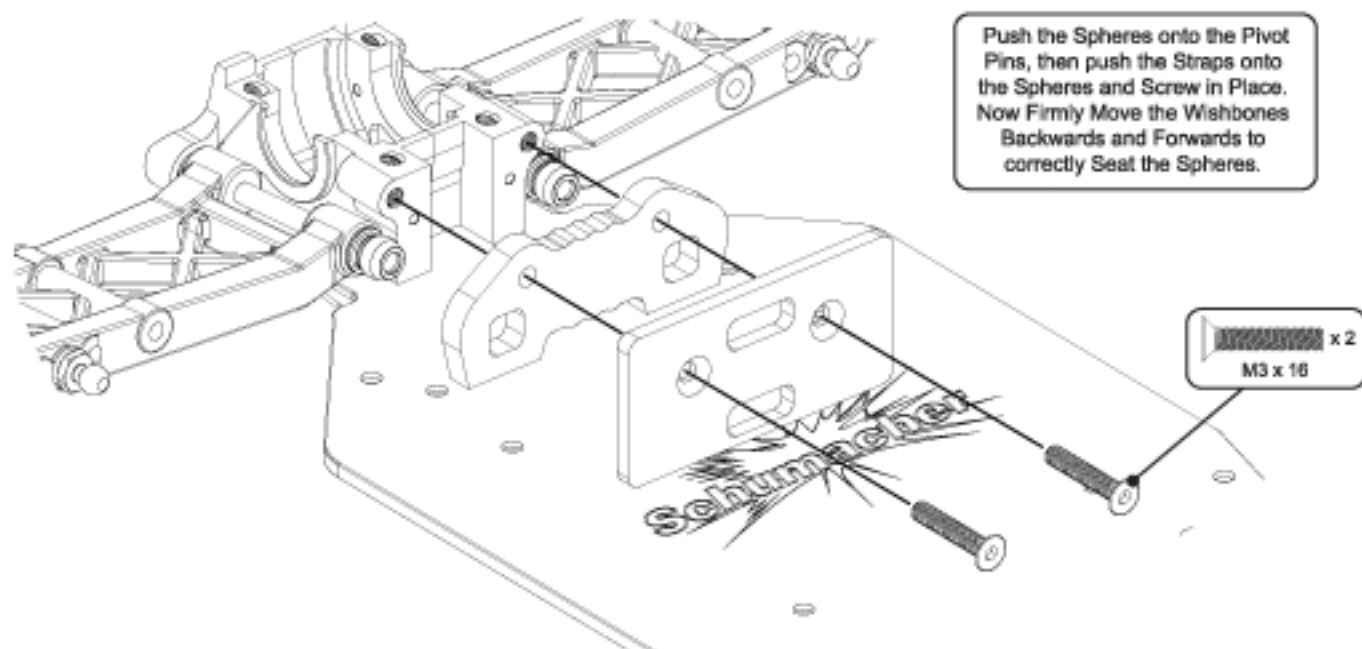


Step 4 A

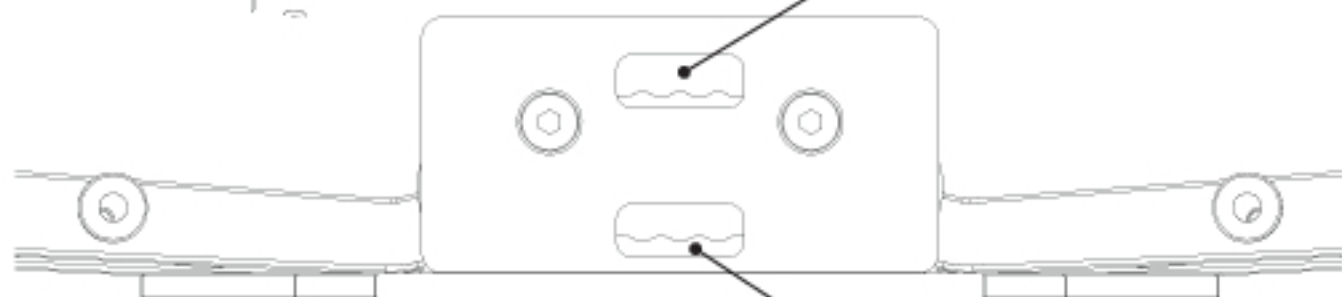
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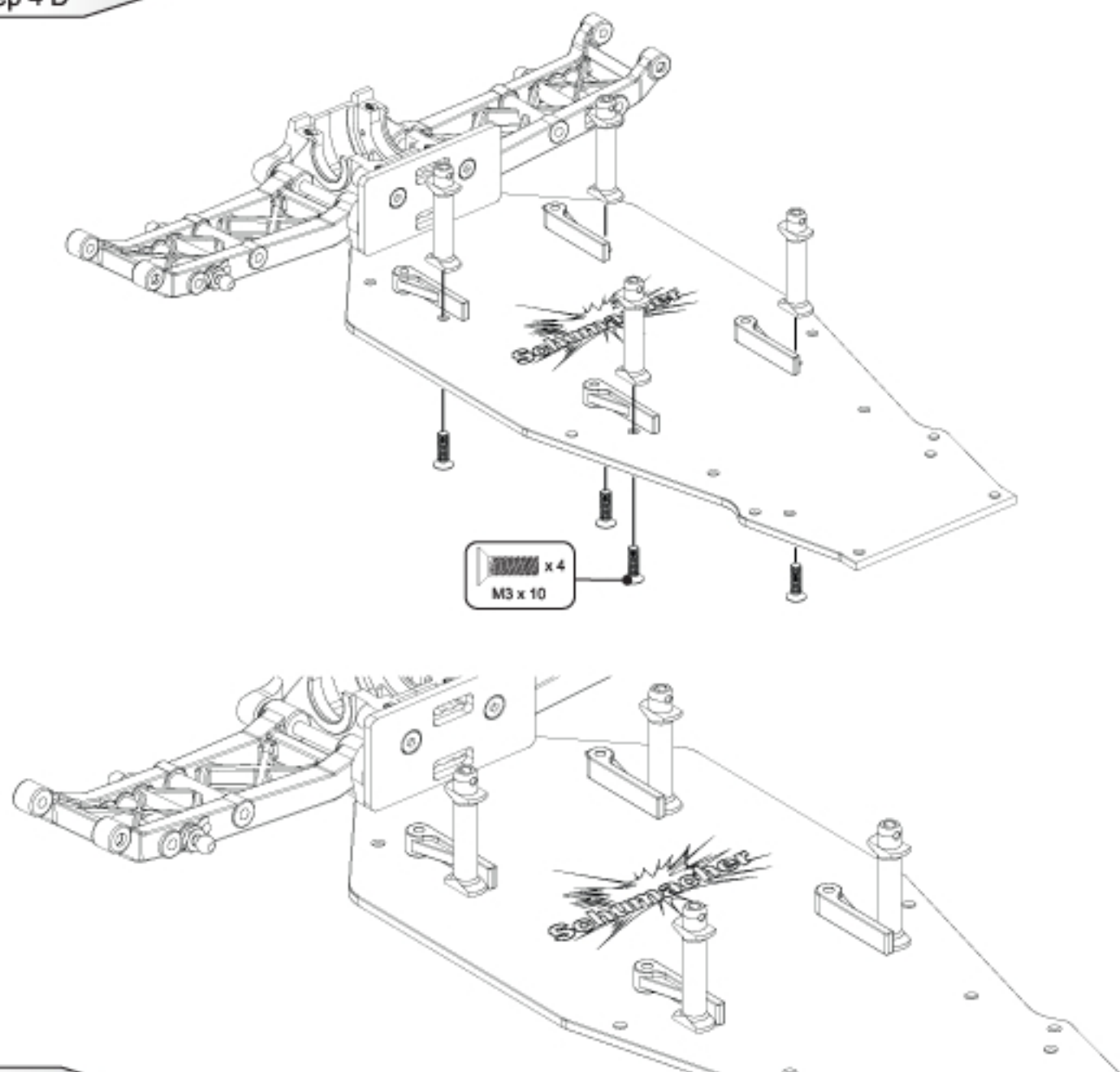
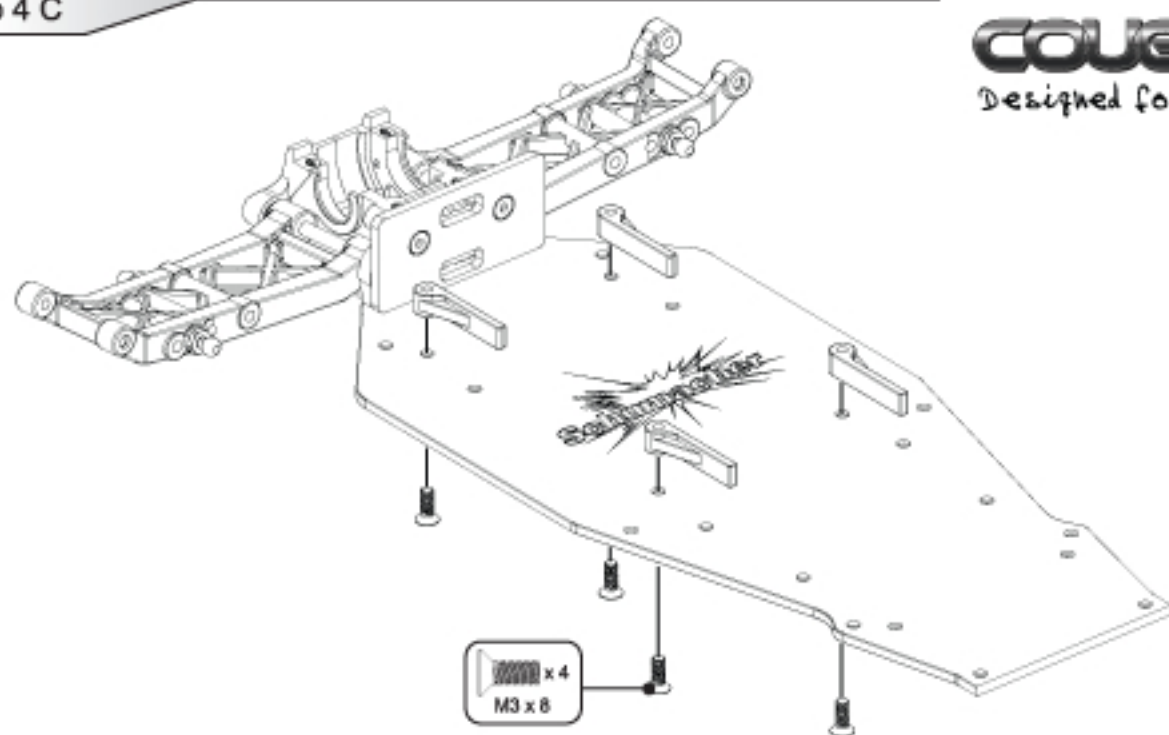
Step 4 B



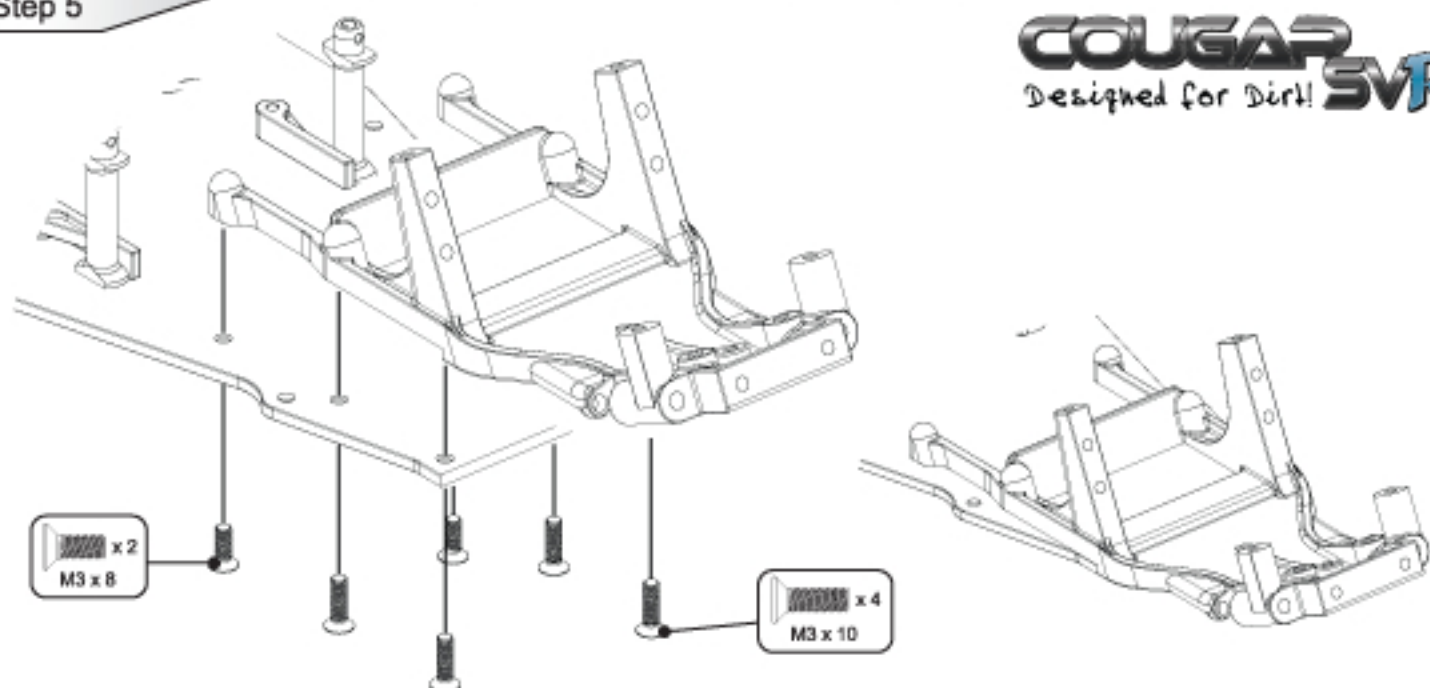
The Number of Humps Visible in this window Equals the number of degrees of Toe-in.



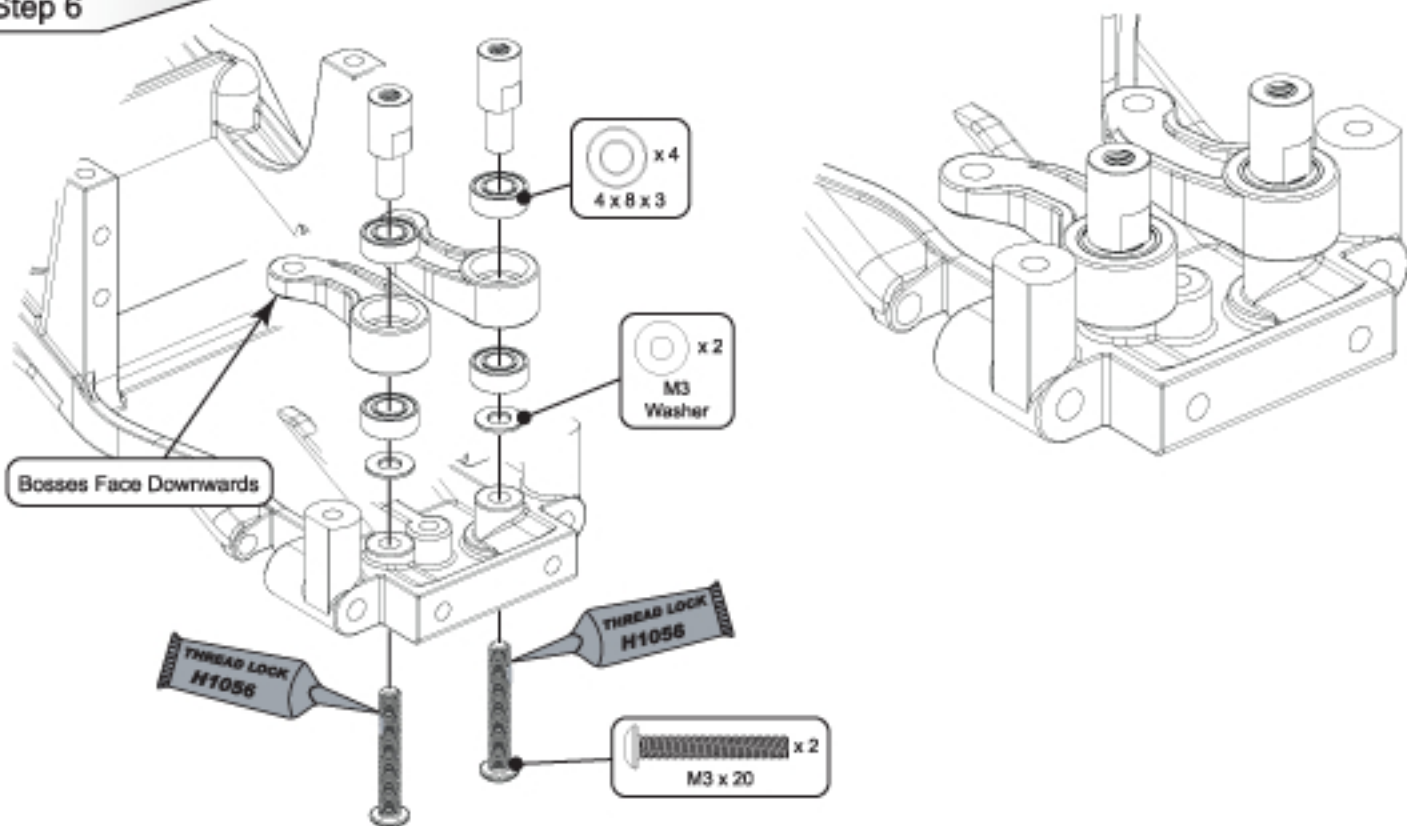
The Number of Humps Visible in this window Equals the number of degrees of Anti-Squat.



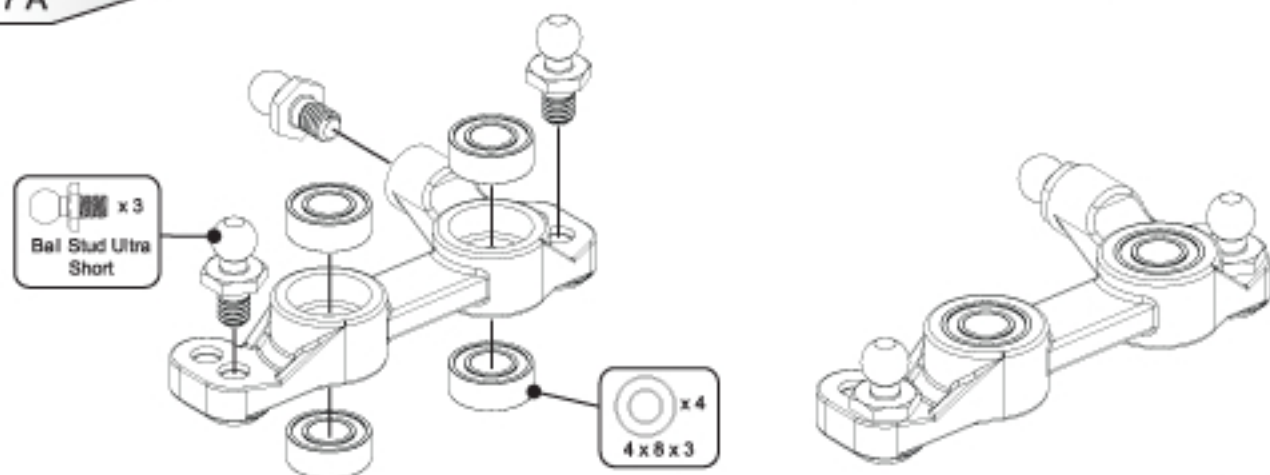
Step 5



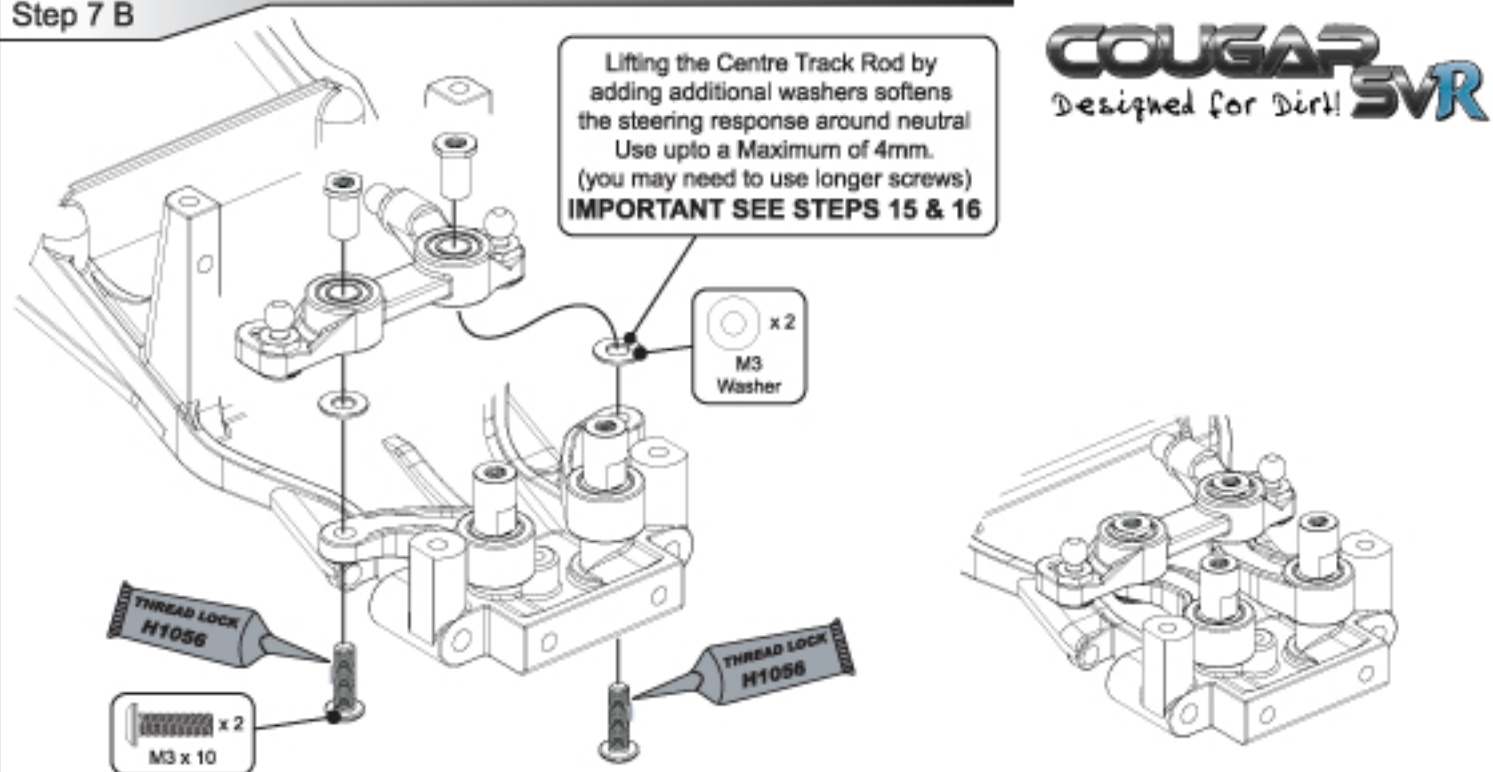
Step 6



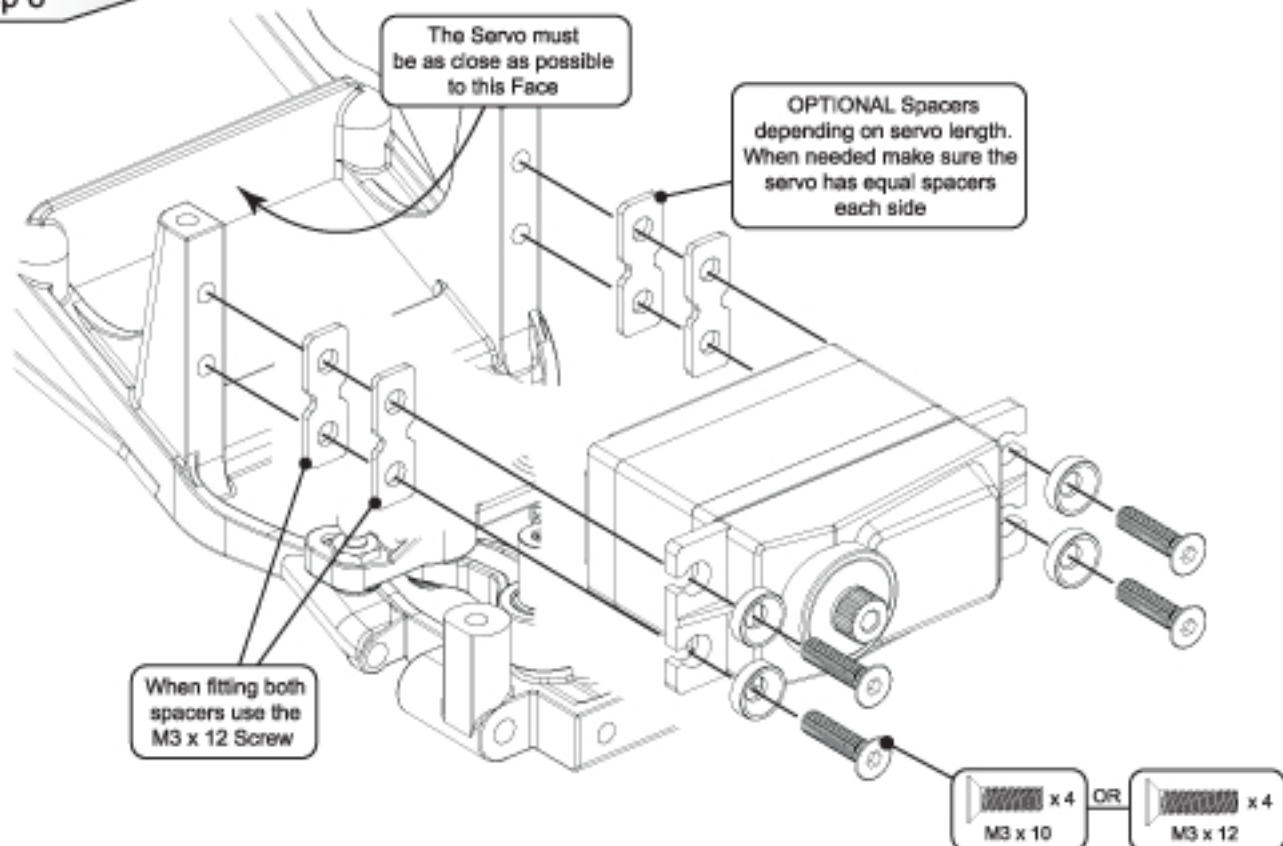
Step 7 A



Step 7 B



Step 8

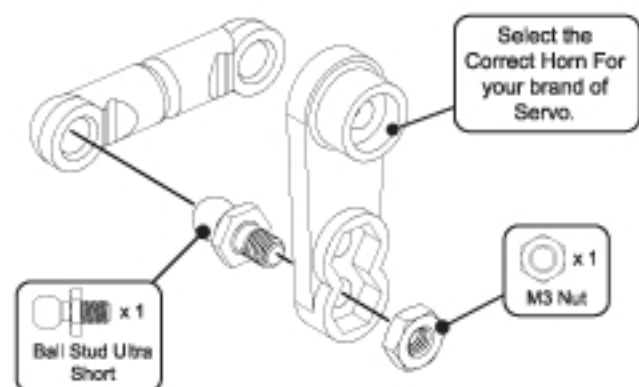


Step 9 A



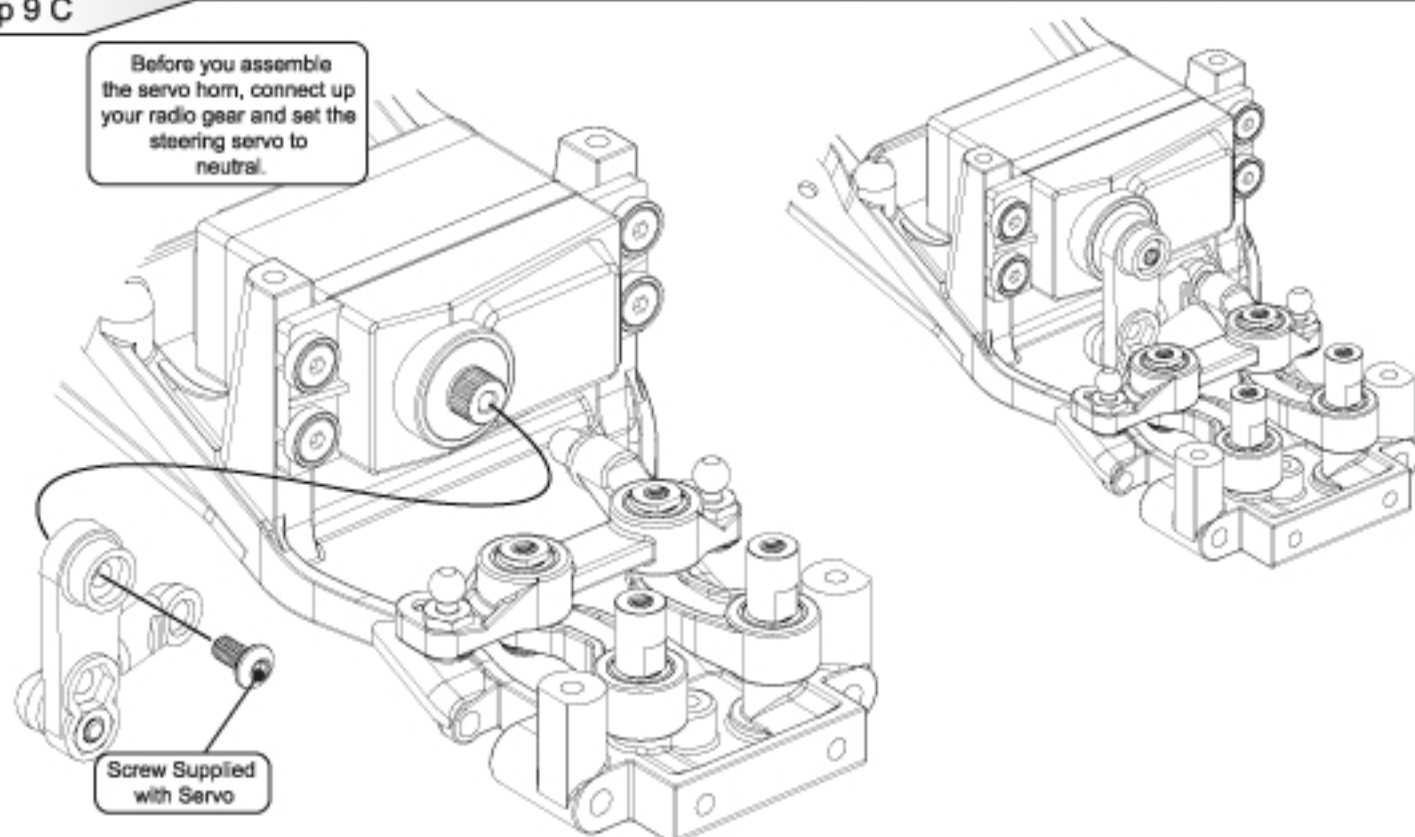
Step 9 B

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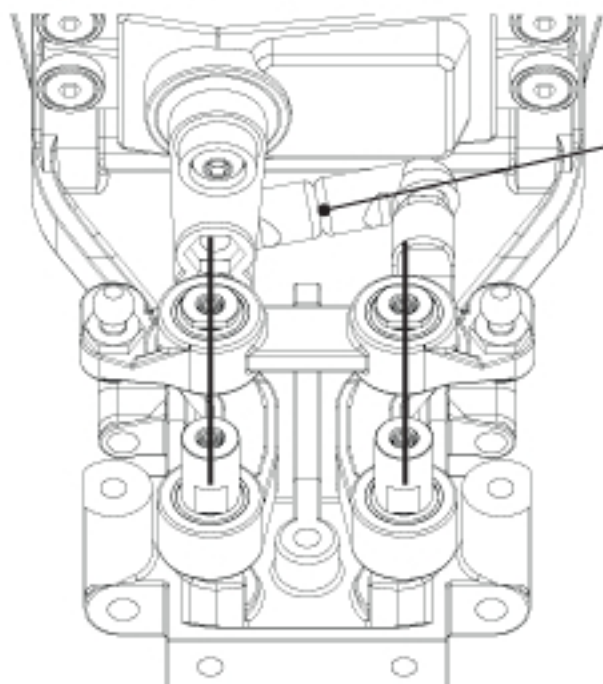


Step 9 C

Before you assemble the servo horn, connect up your radio gear and set the steering servo to neutral.



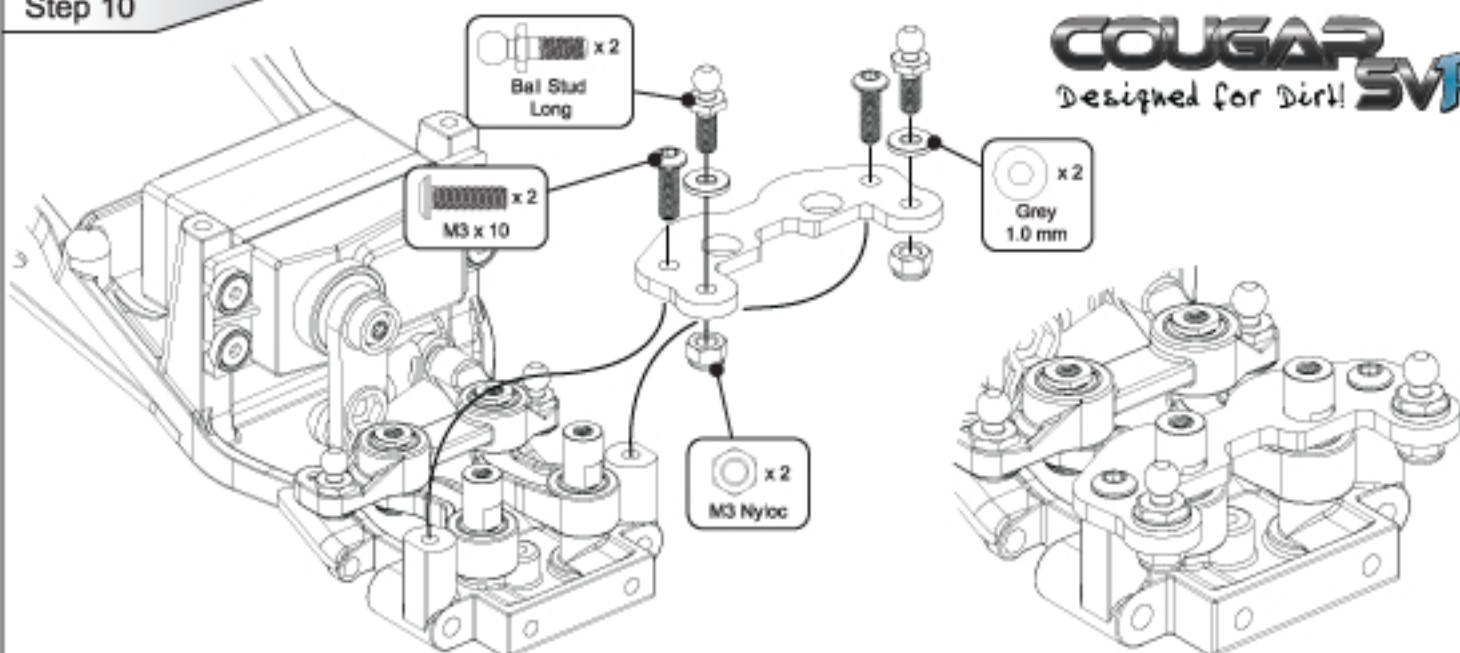
Step 9 D



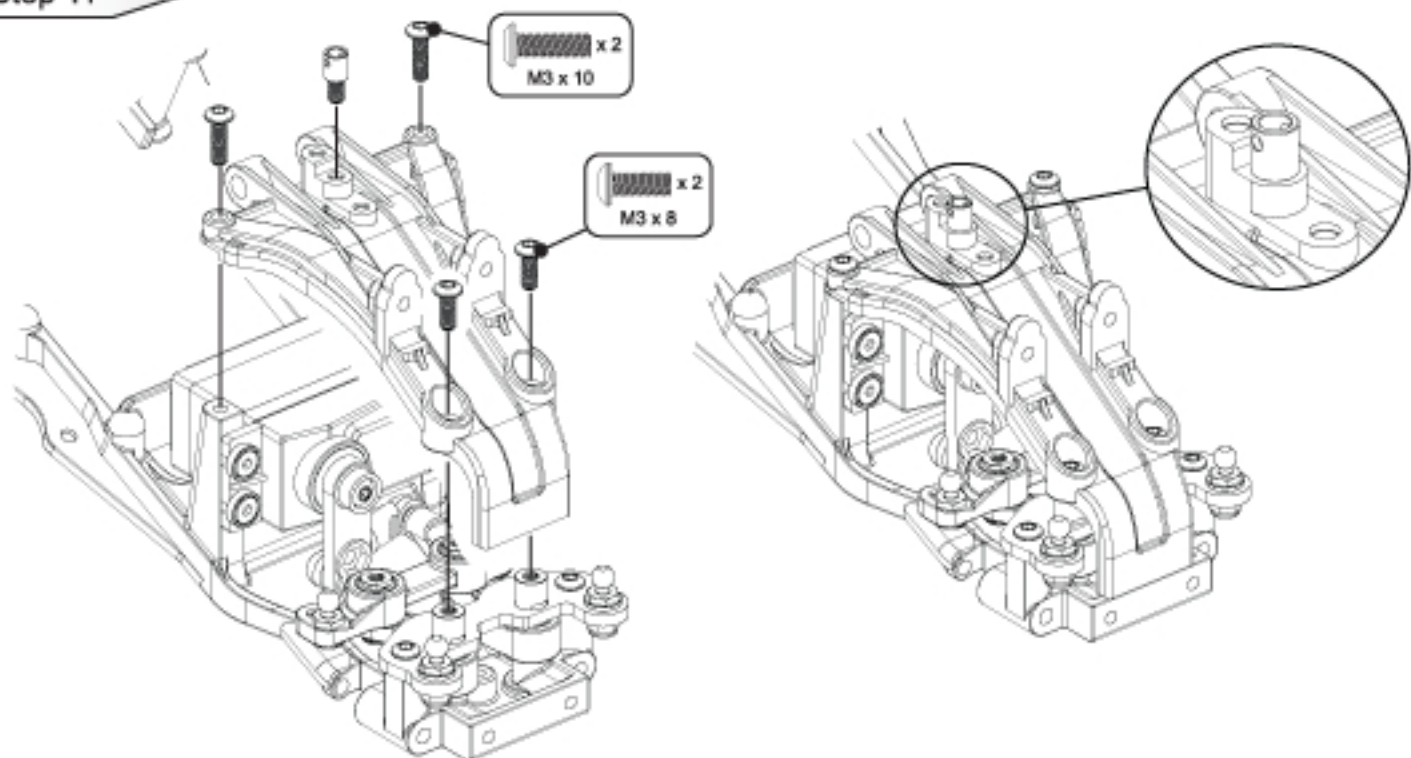
If the pivots are not in-line as shown. Adjust this gap until they are correctly aligned when the servo is at Neutral.

Step 10

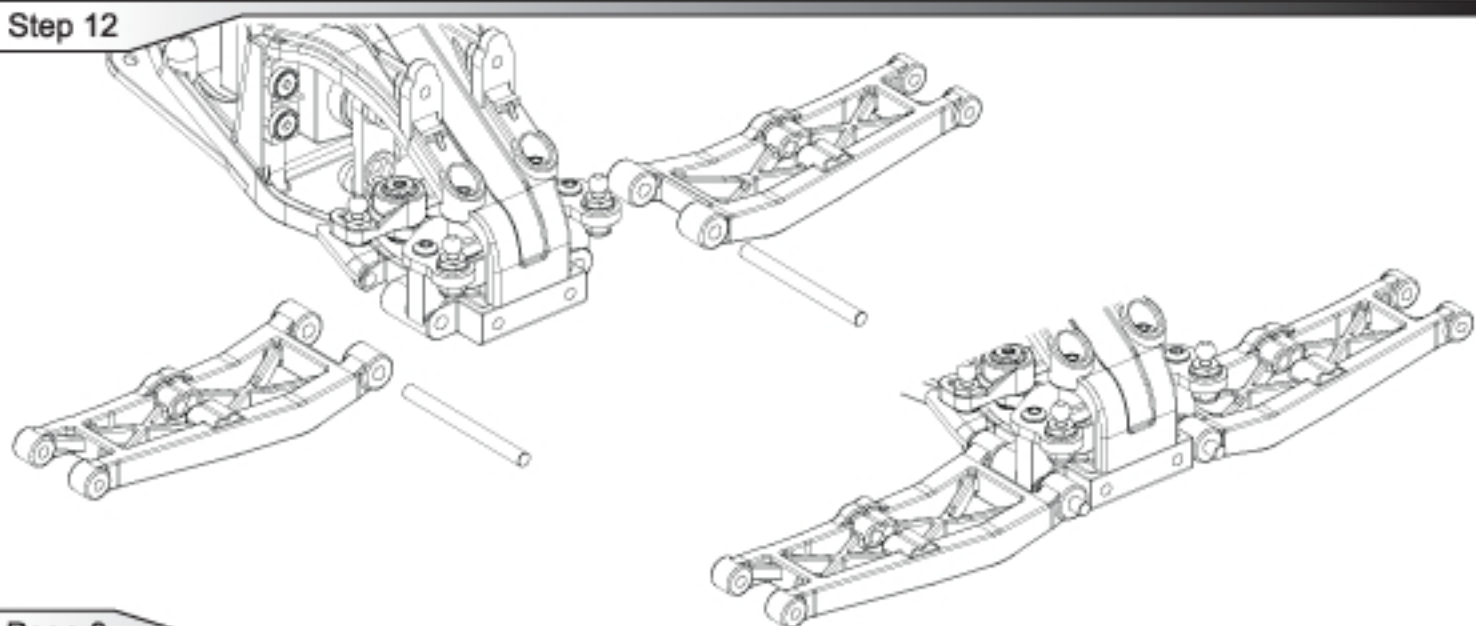
COUGAR SVR
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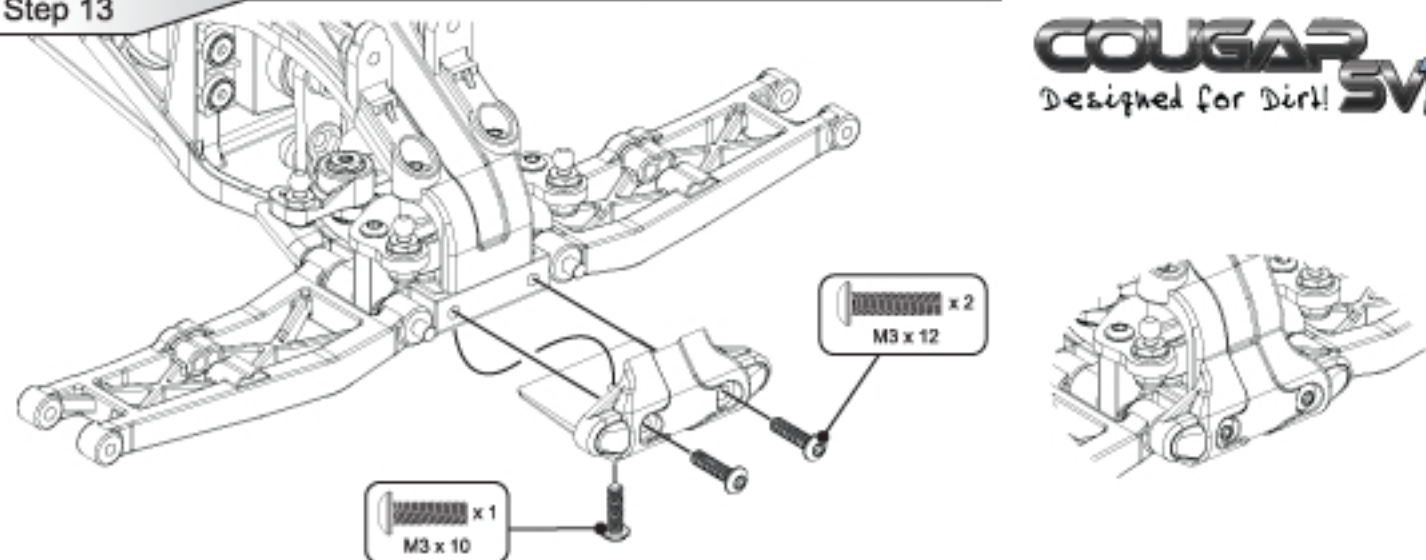
Step 11



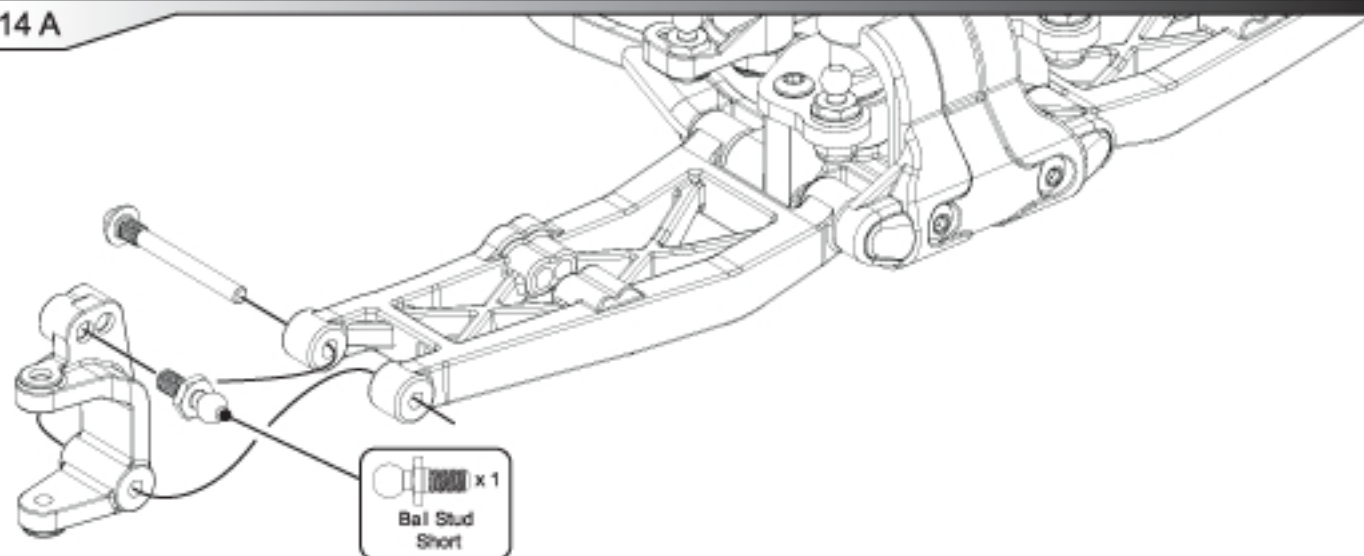
Step 12



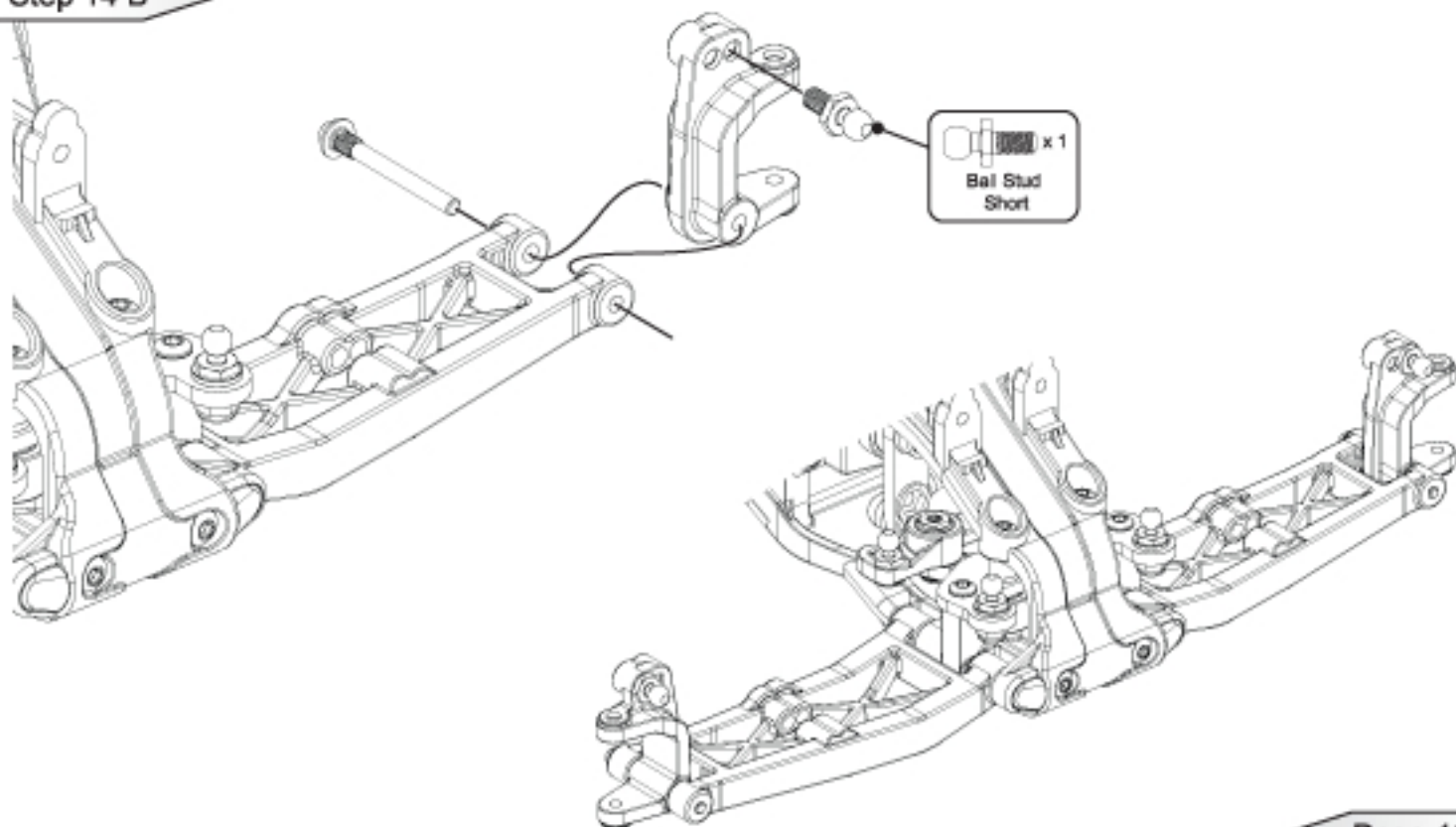
Step 13



Step 14 A

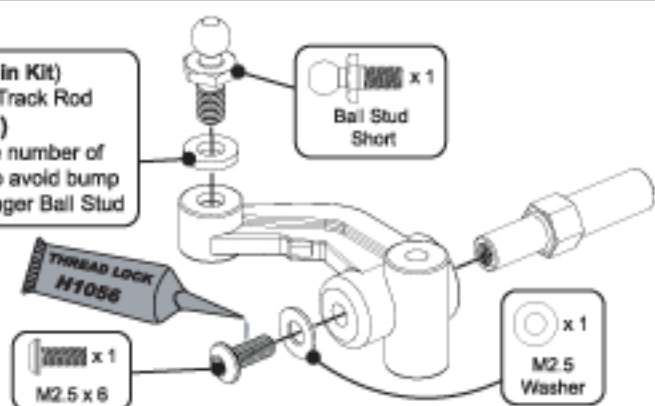


Step 14 B



Step 15 A

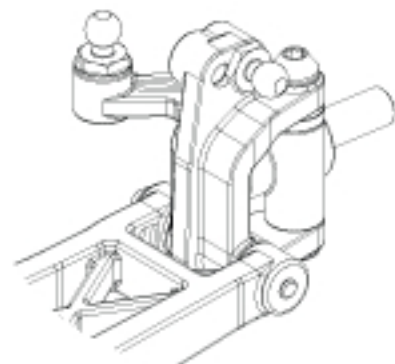
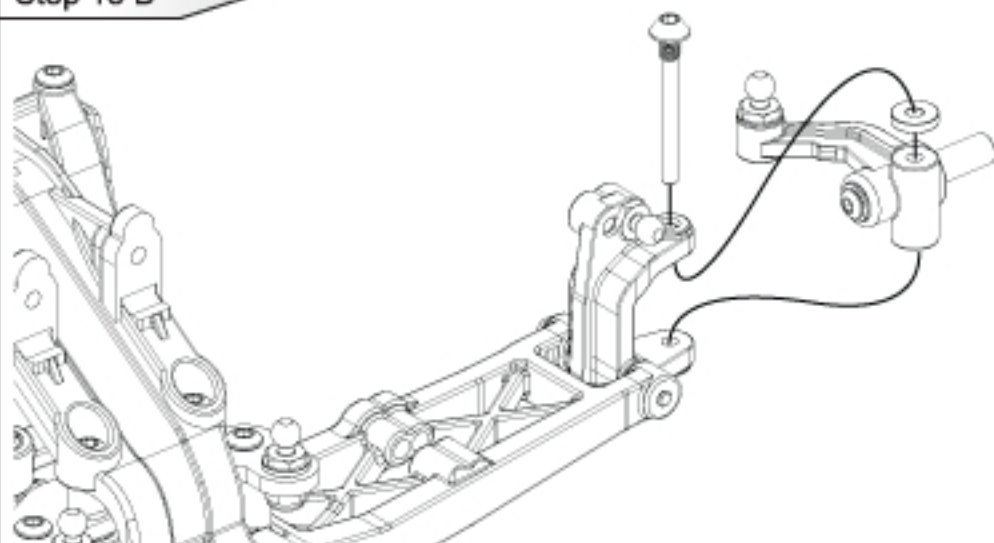
Optional Washers (Not in Kit)
When Spacing the Centre Track Rod
(Page 7 Step 7)
you must also add the same number of
washers under the ball stud to avoid bump
steer, you may also need a longer Ball Stud



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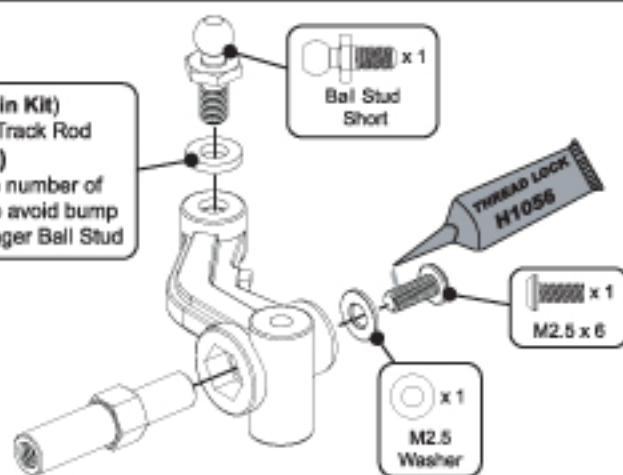


Step 15 B

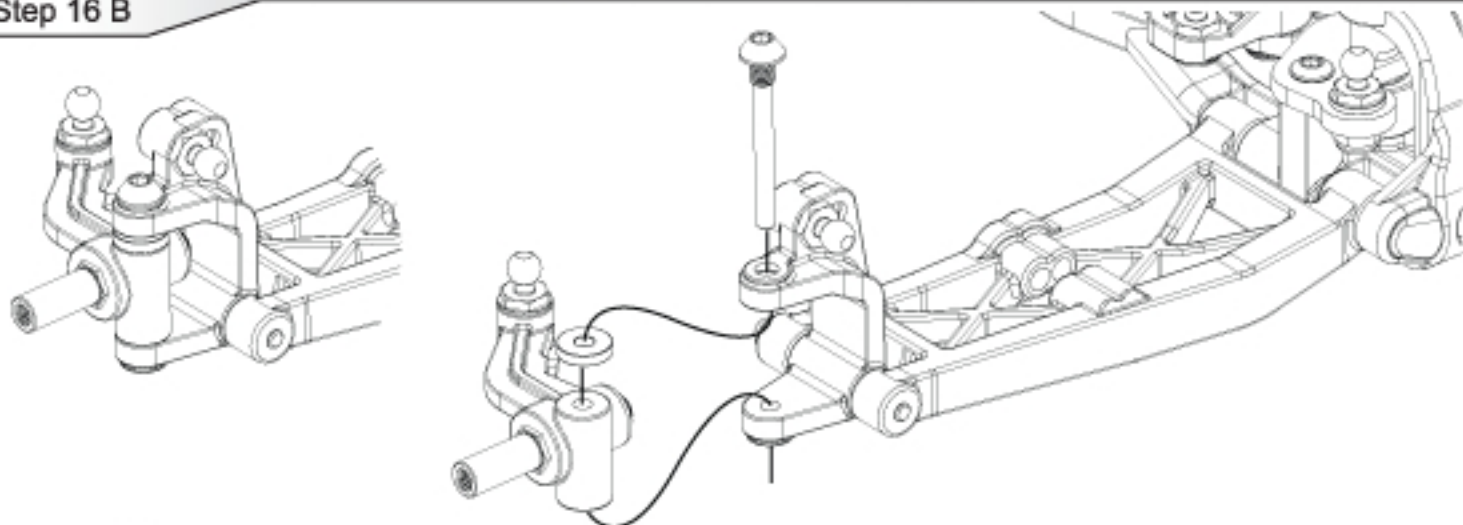


Step 16 A

Optional Washers (Not in Kit)
When Spacing the Centre Track Rod
(Page 7 Step 7)
you must also add the same number of
washers under the ball stud to avoid bump
steer, you may also need a longer Ball Stud

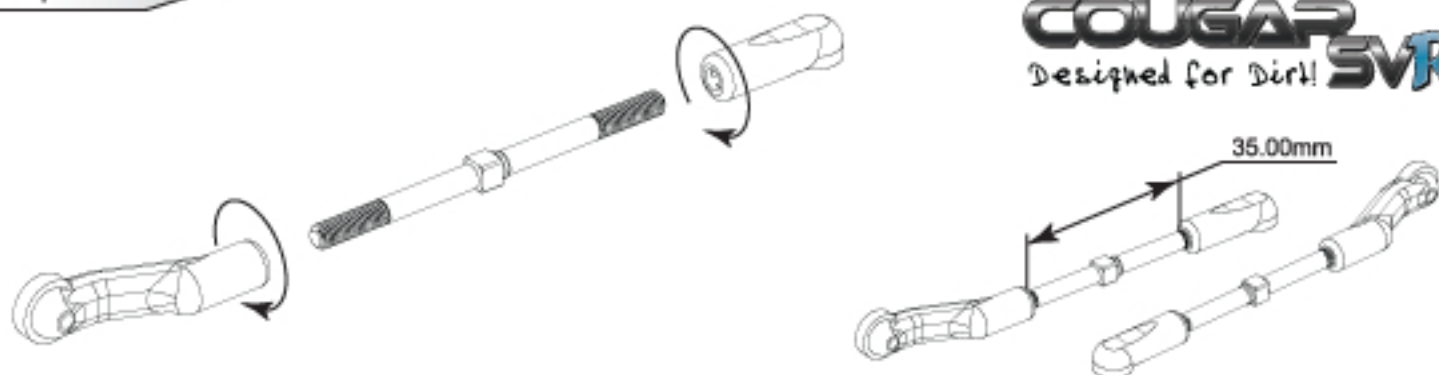


Step 16 B

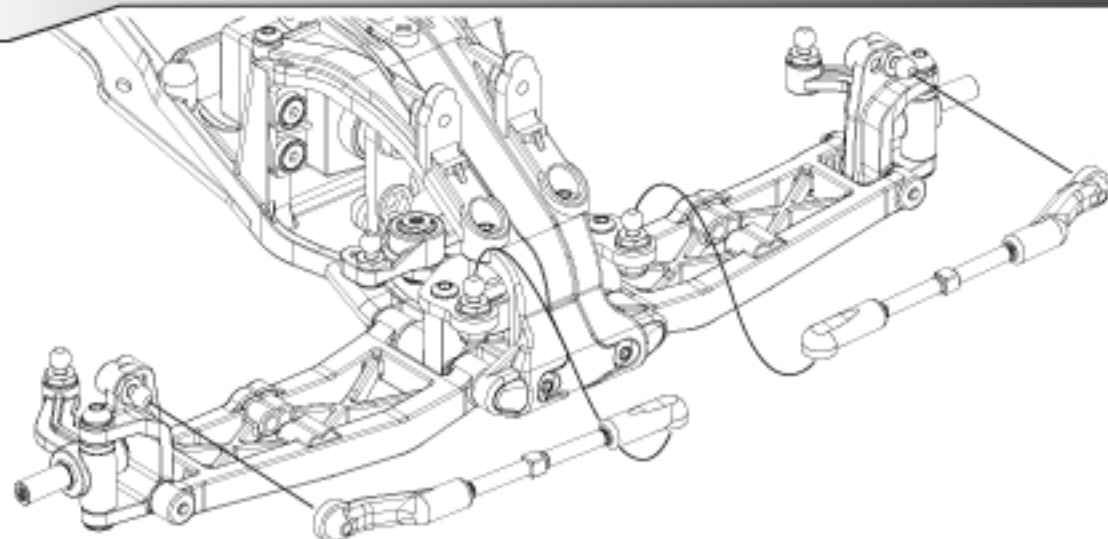


Step 17 A

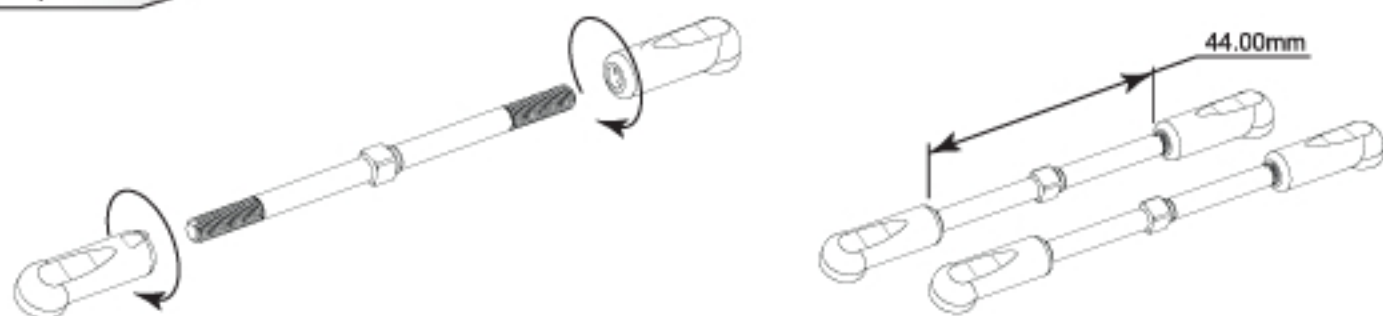
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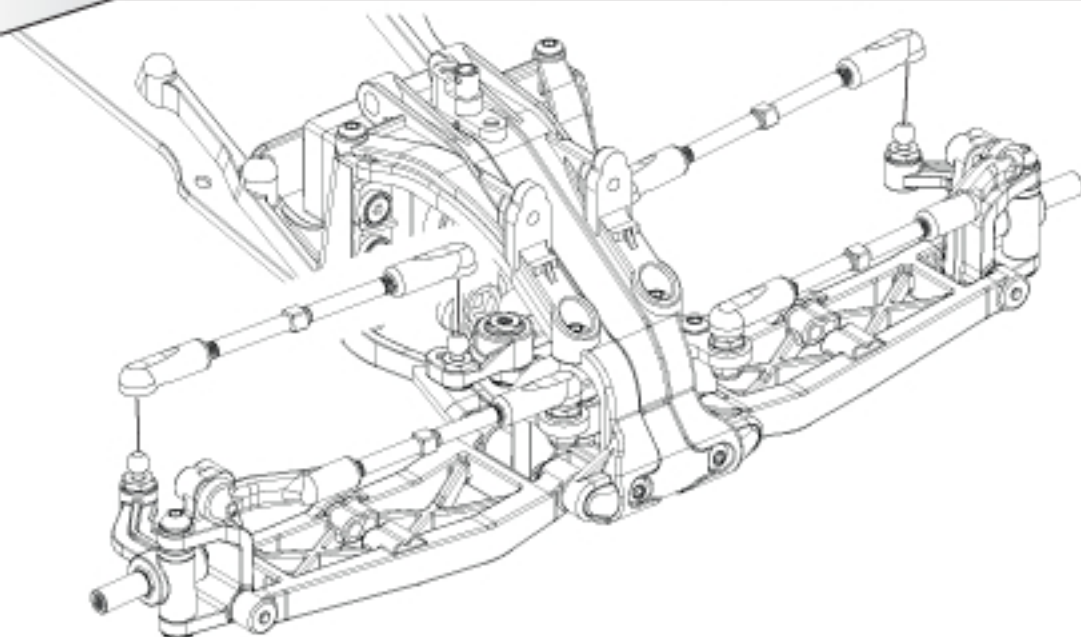
Step 17 B

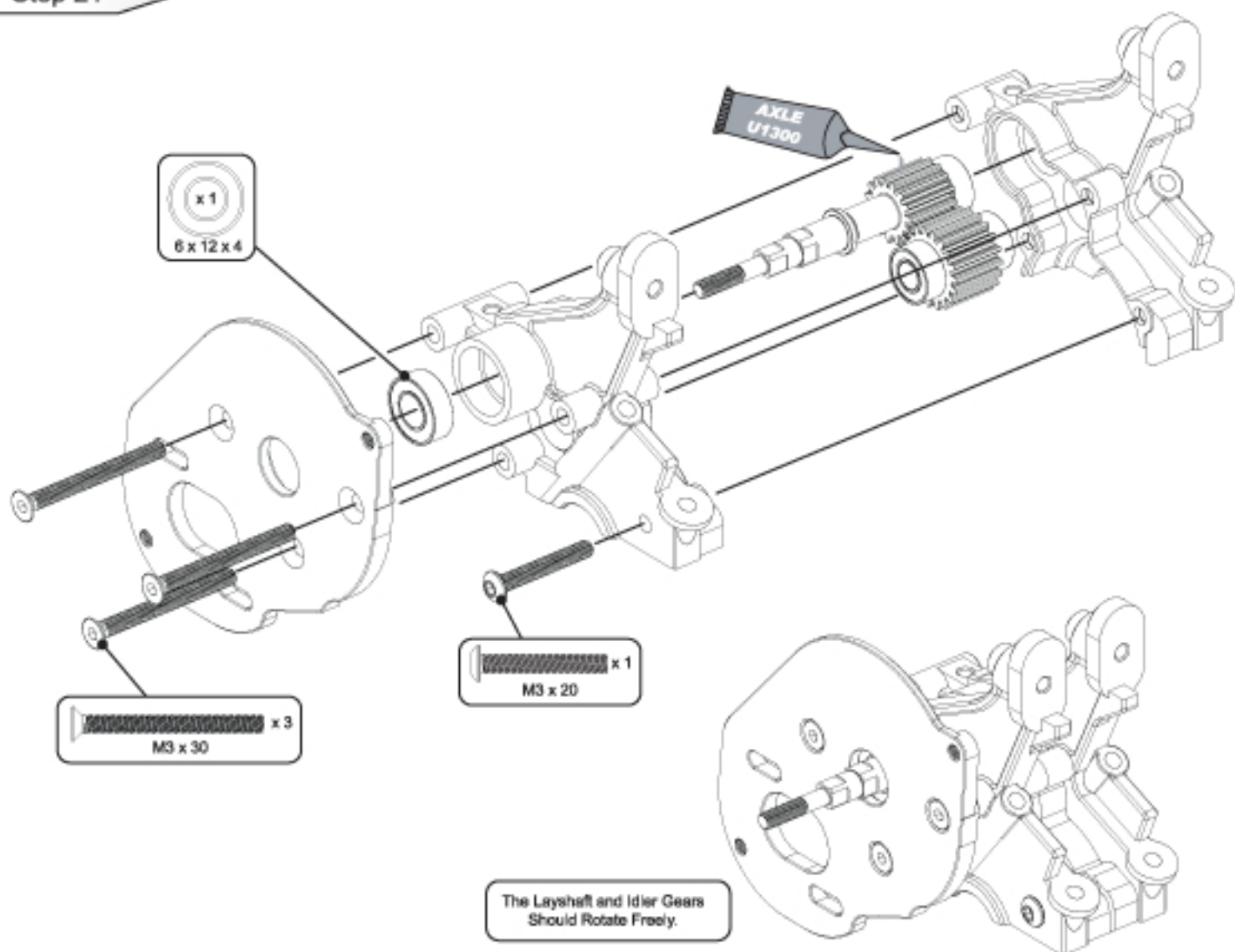
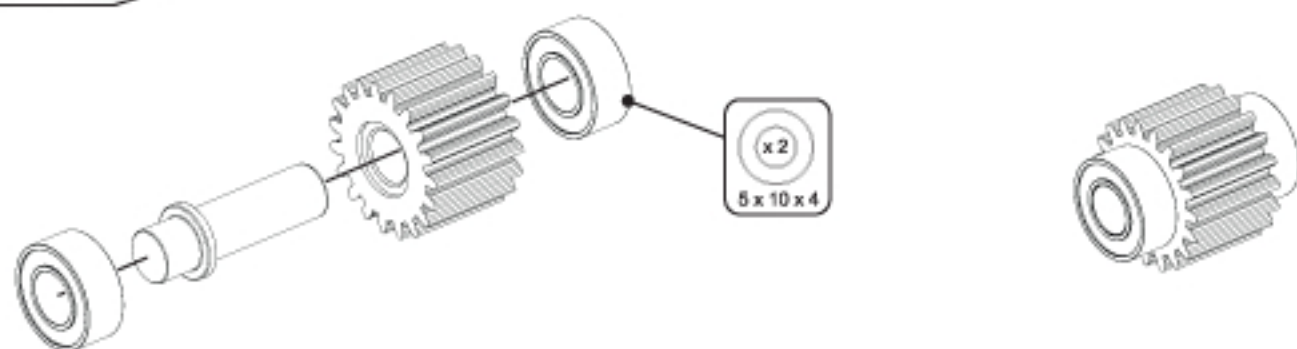
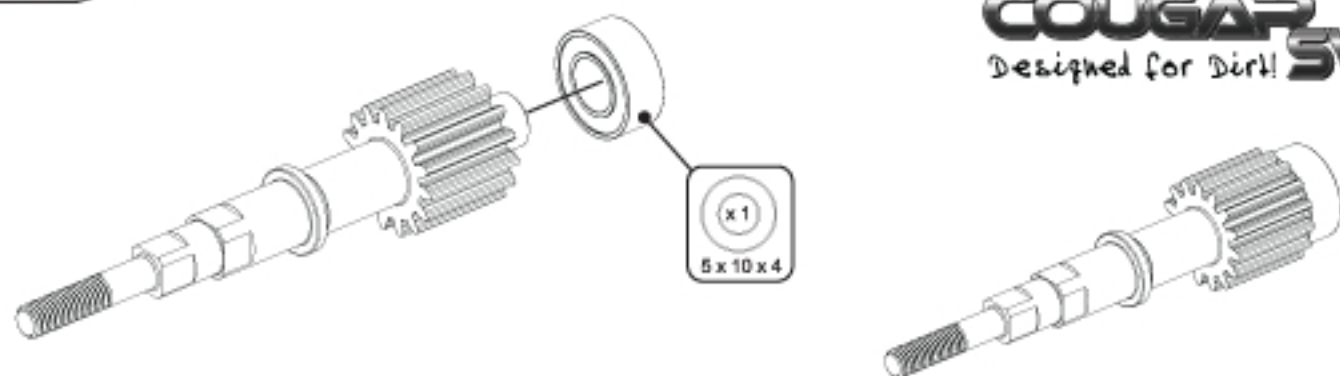


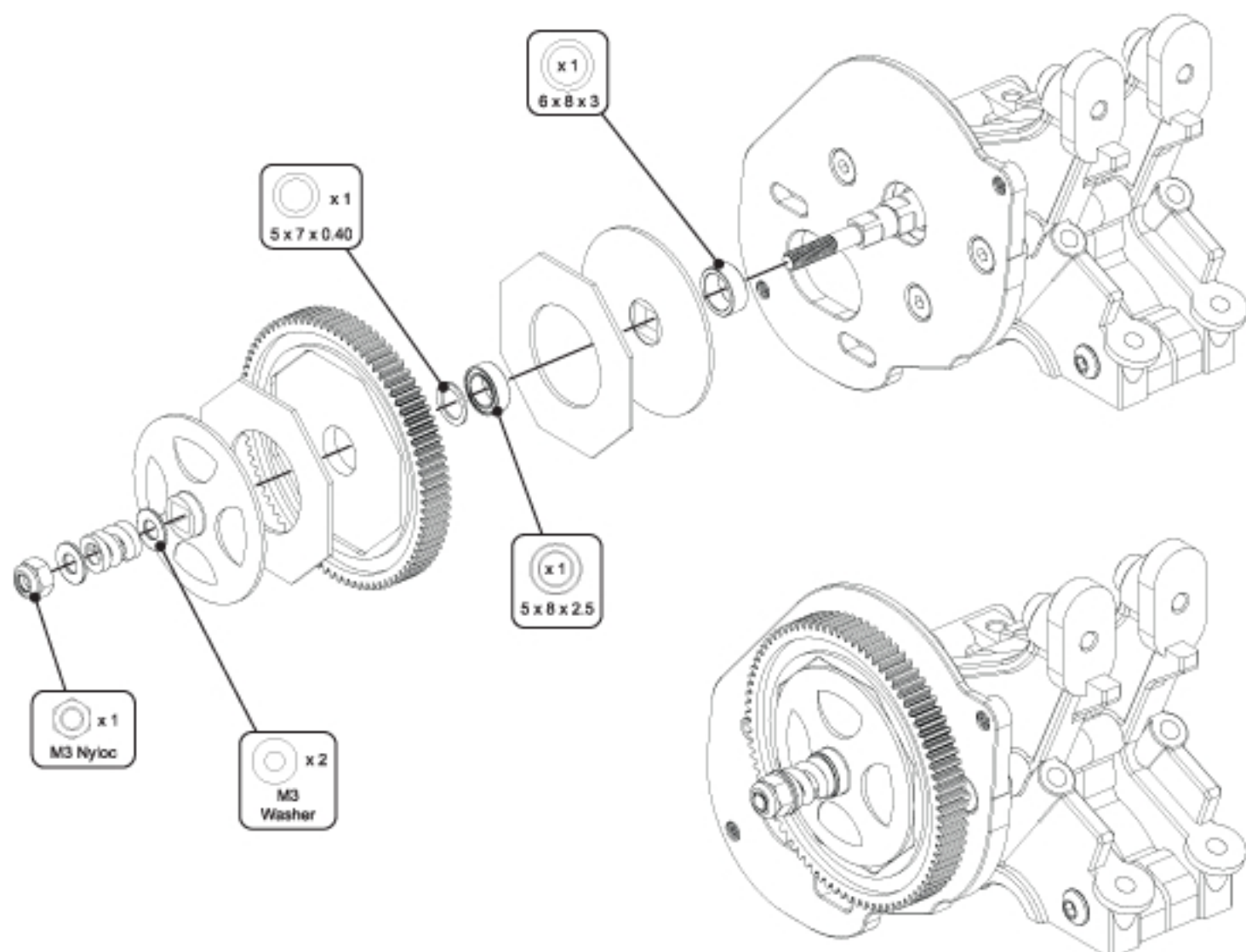
Step 18 A



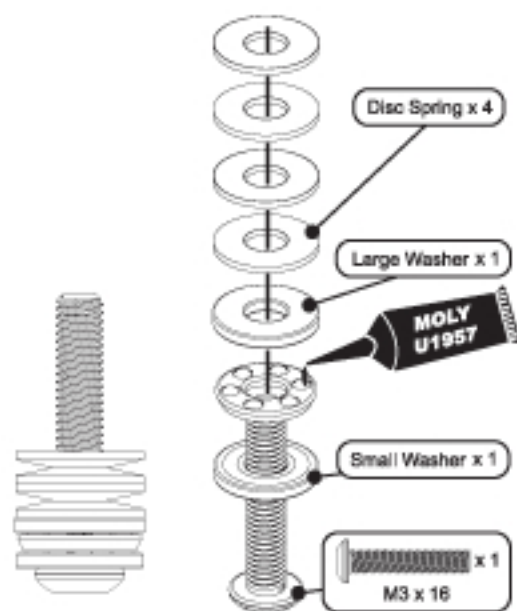
Step 18 B



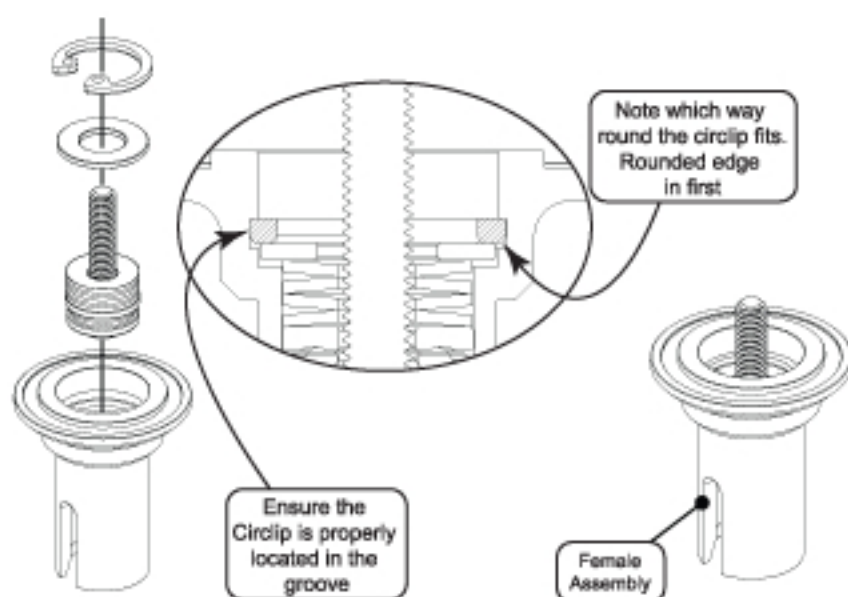




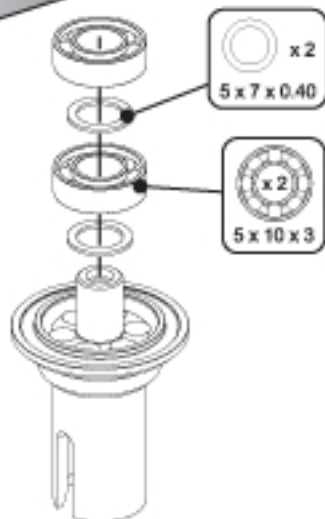
Step 23 A



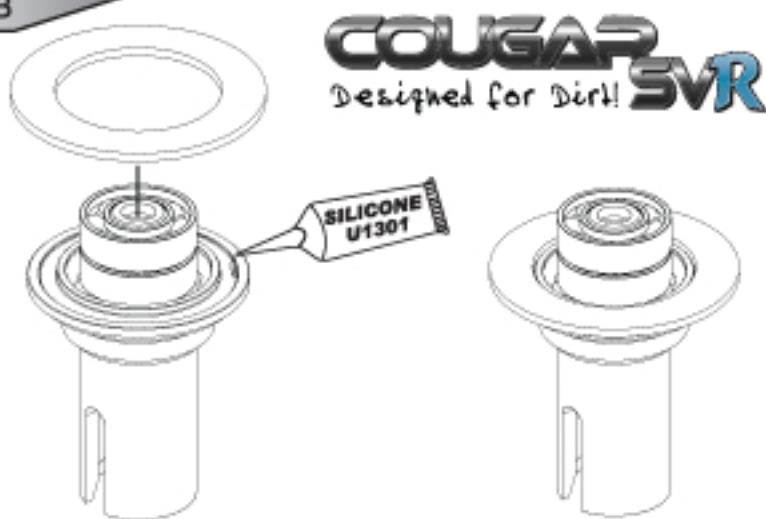
Step 23 B



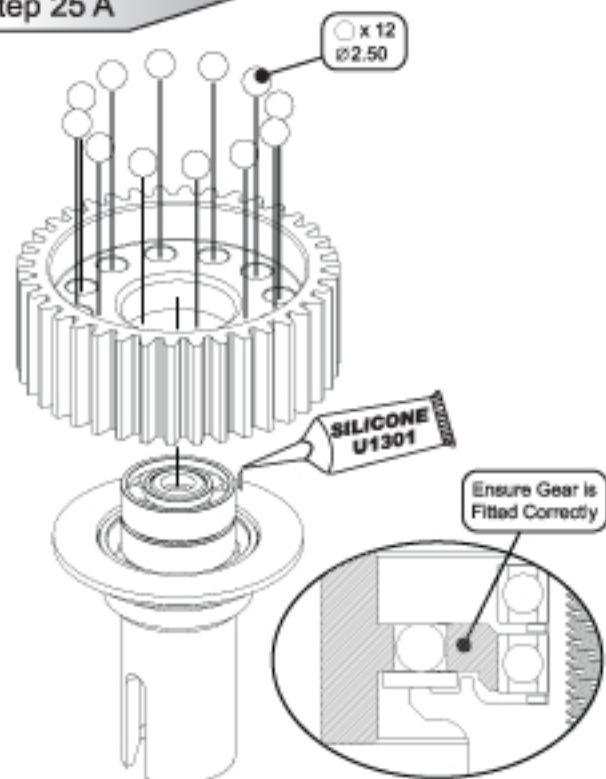
Step 24 A



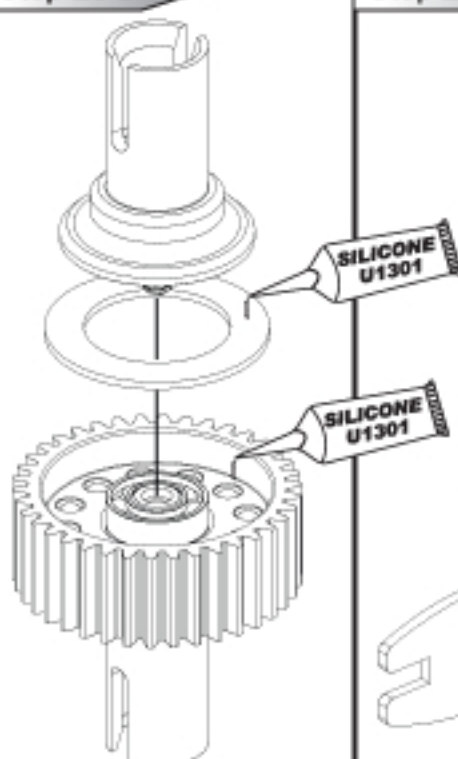
Step 24 B



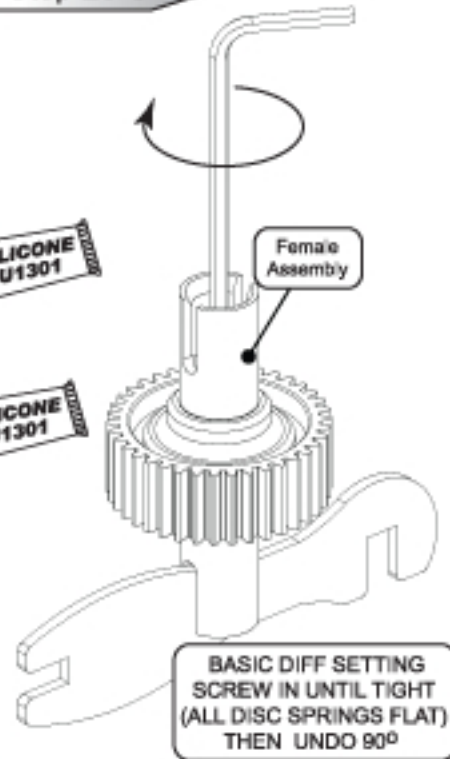
Step 25 A



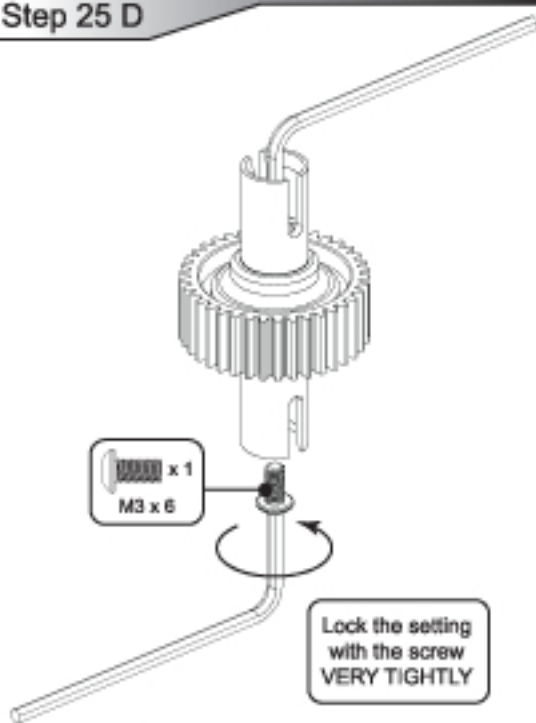
Step 25 B



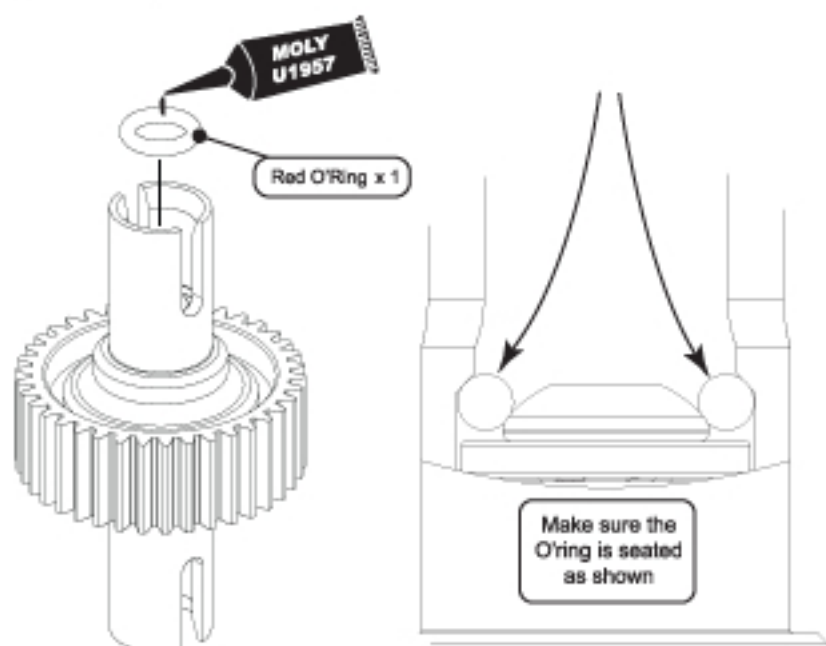
Step 25 C



Step 25 D

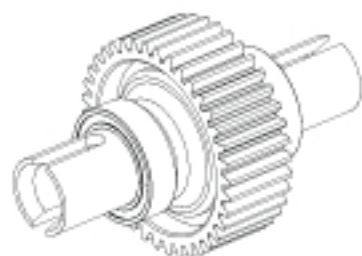
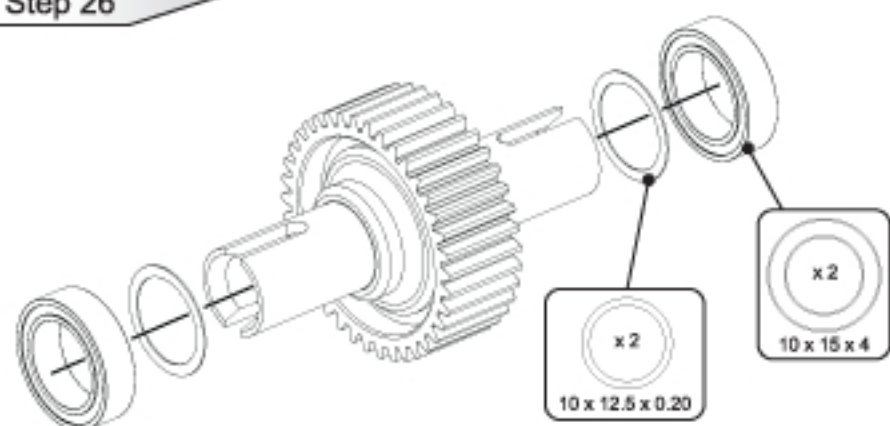


Step 25 E

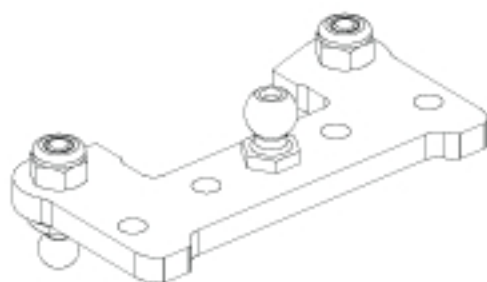
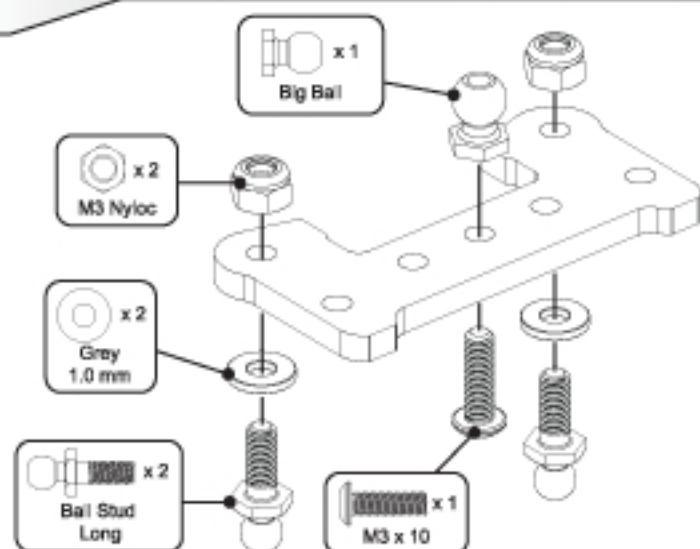


Step 26

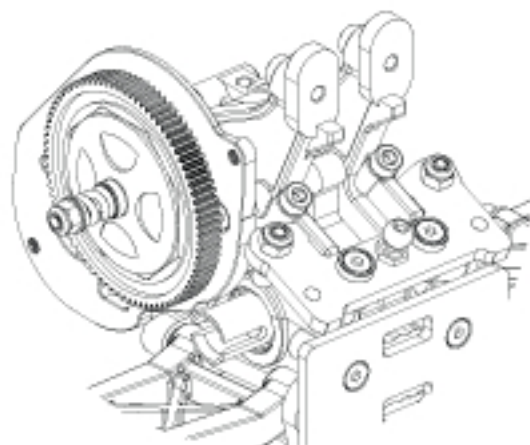
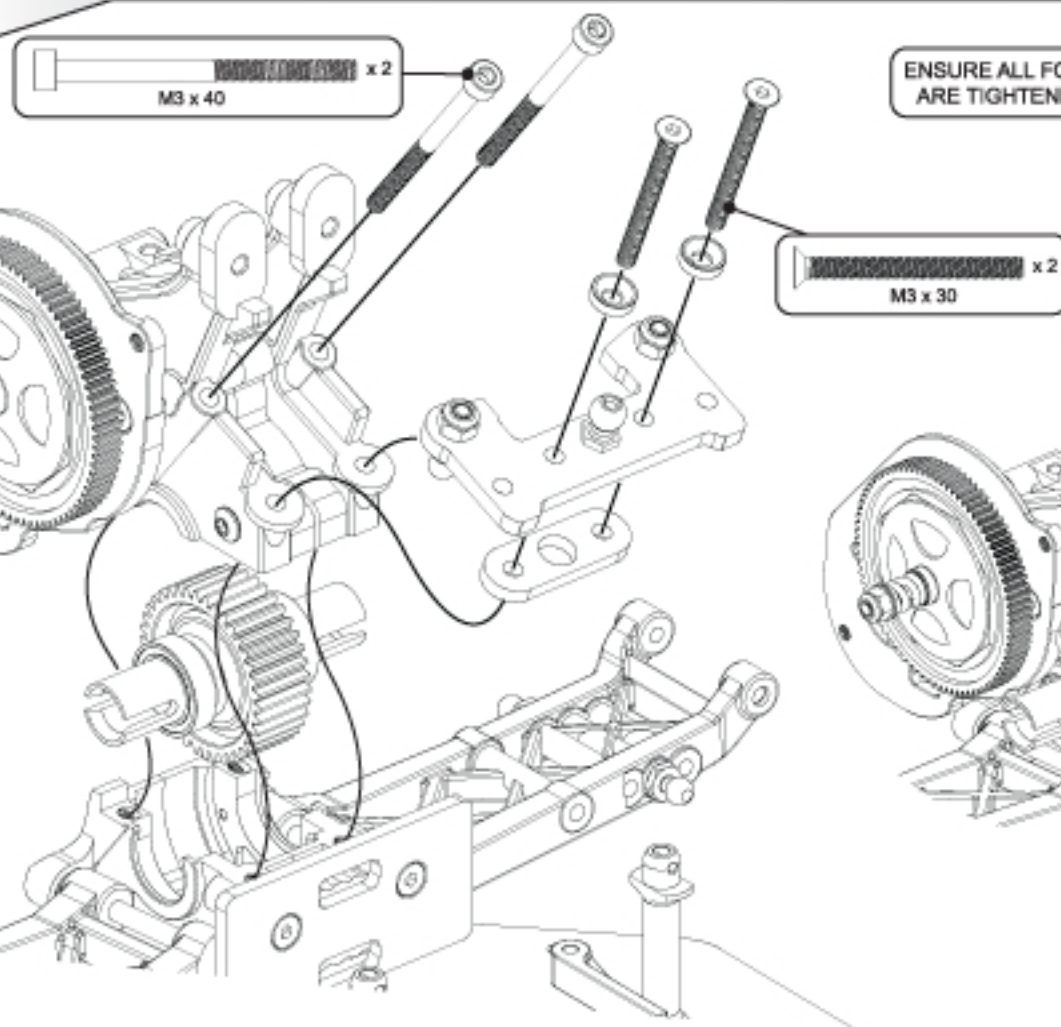
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Step 27

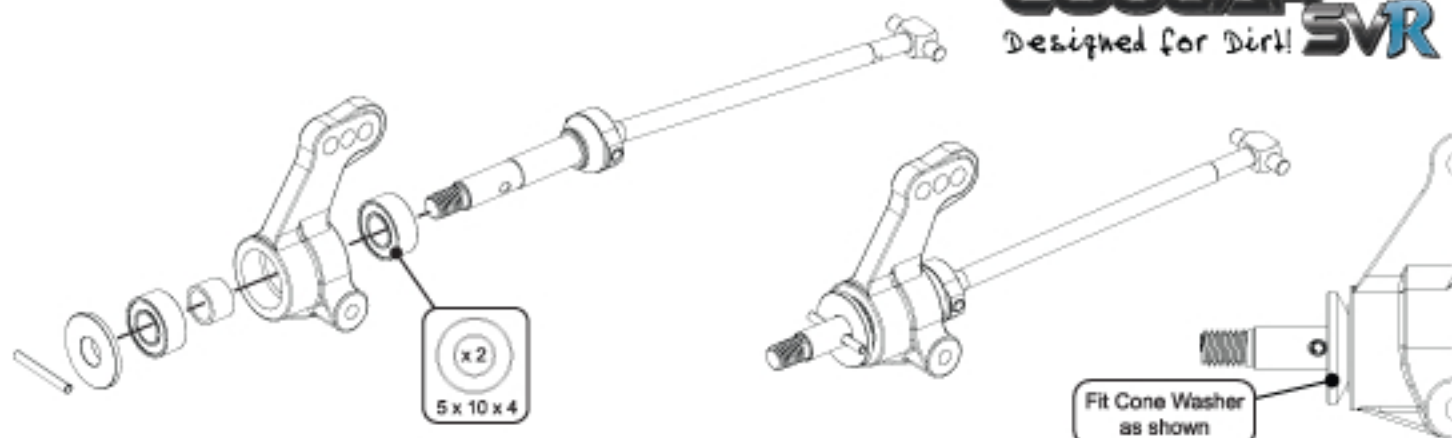


Step 28

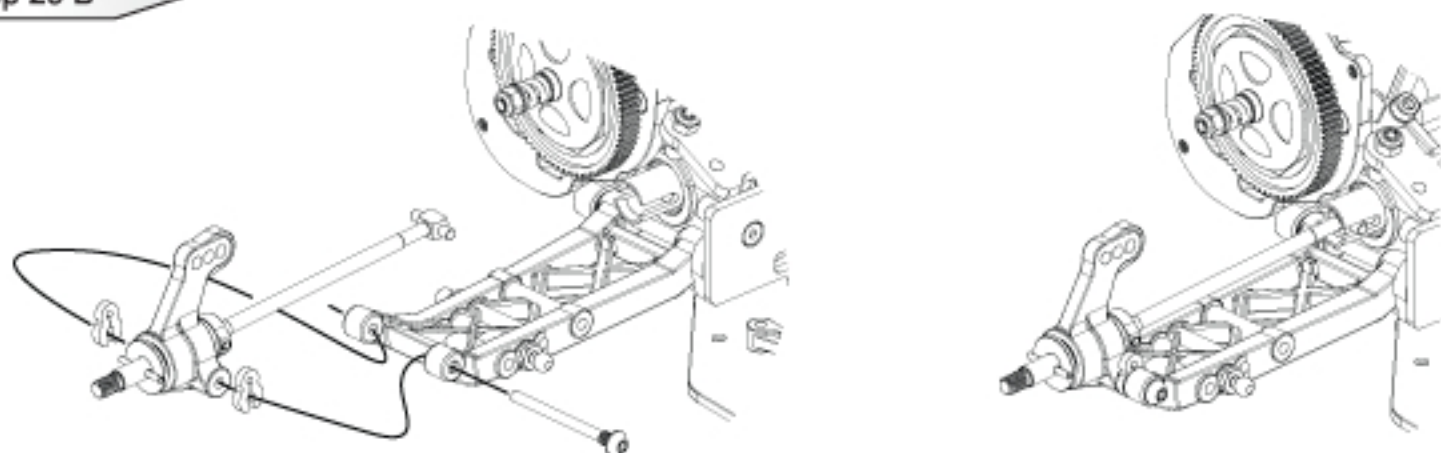


Step 29 A

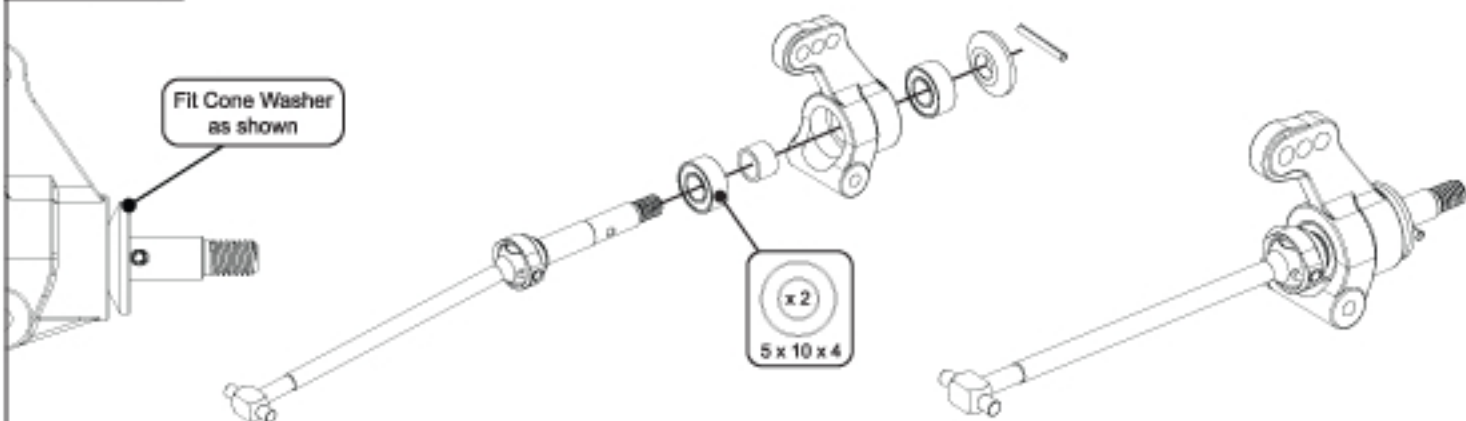
COUGAR SVR
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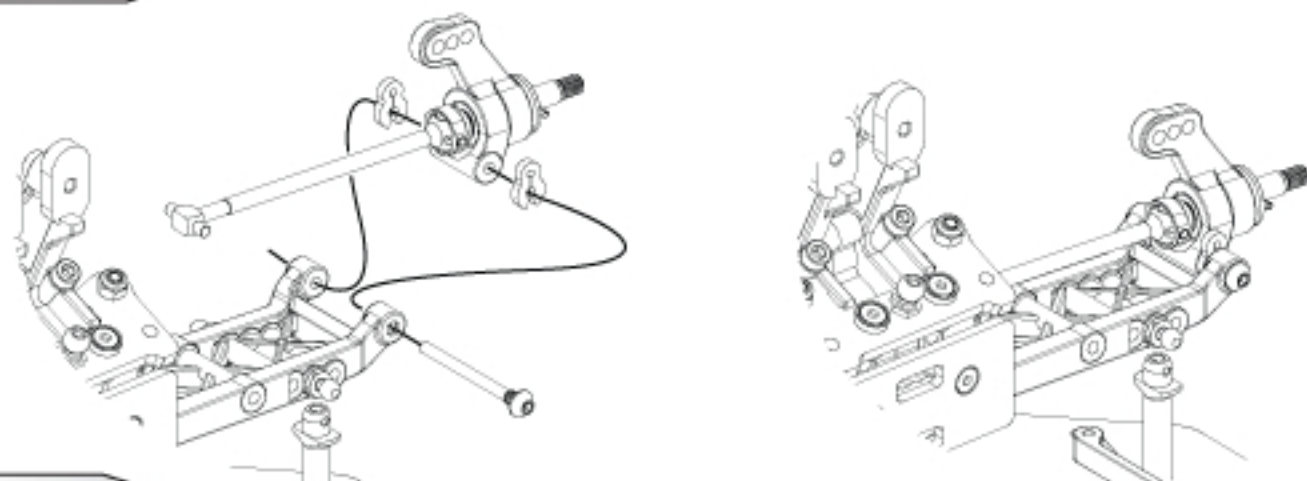
Step 29 B



Step 30 A



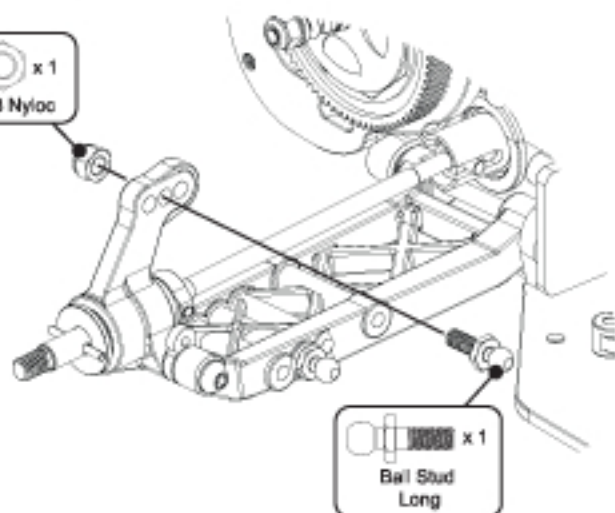
Step 30 B



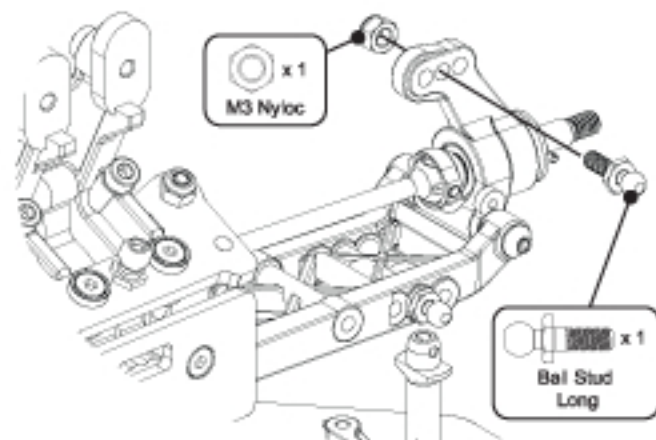
Step 31 A

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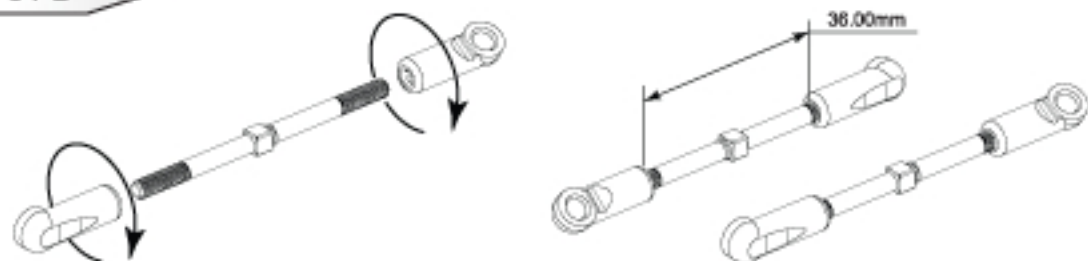
x1
M3 Nyloc



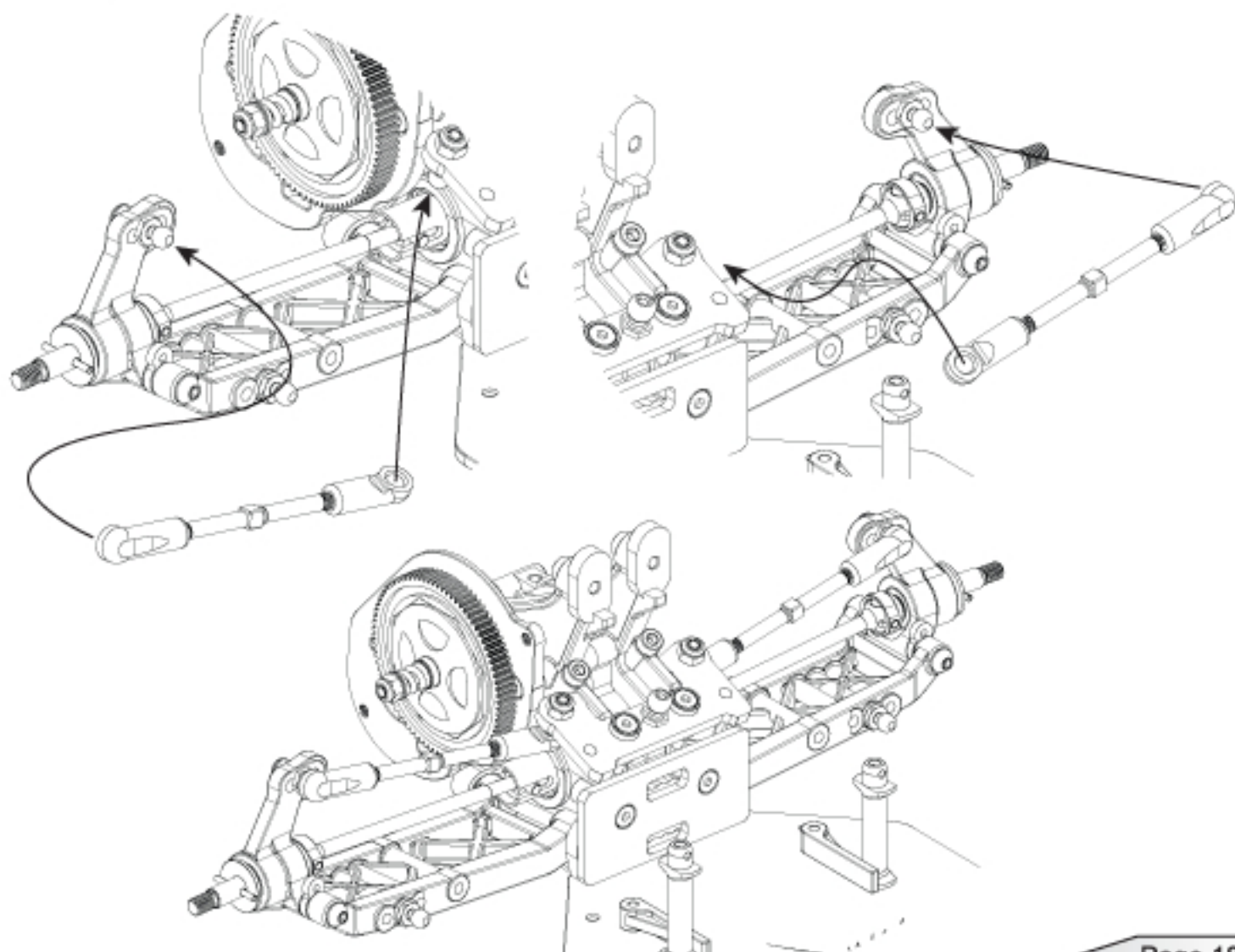
x1
M3 Nyloc



Step 31 B

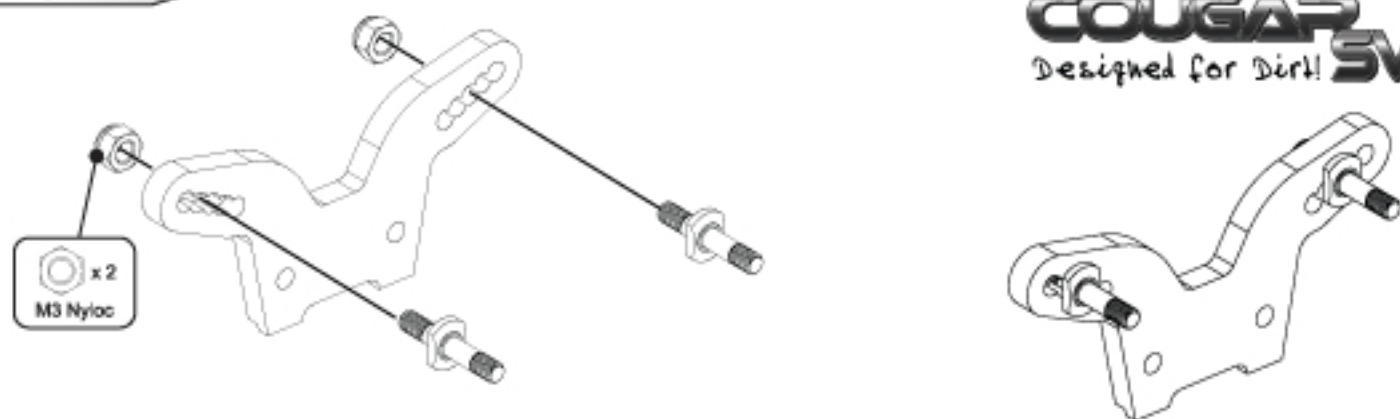


Step 31 C

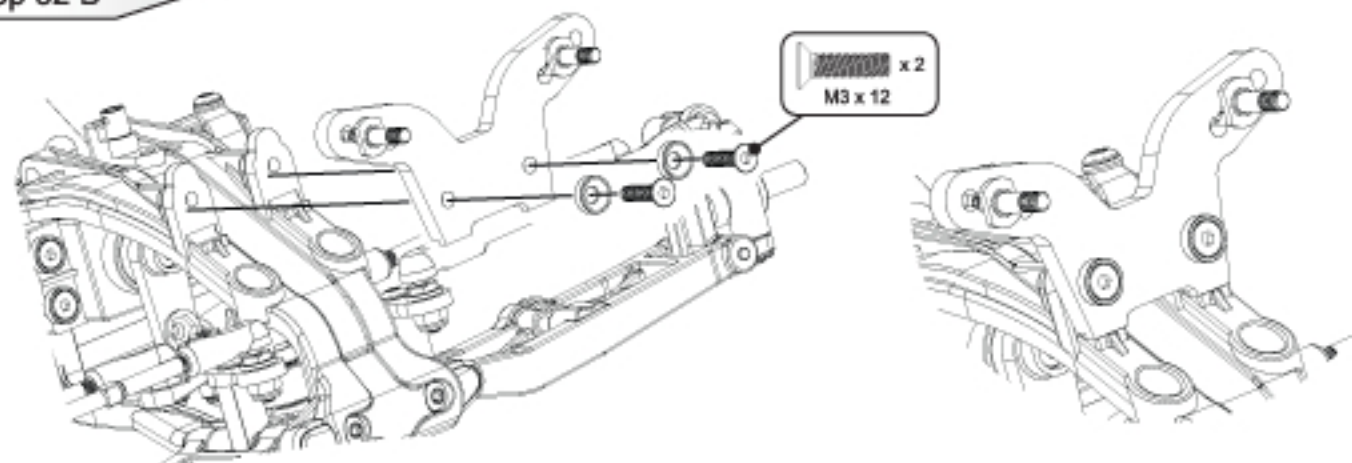


Step 32 A

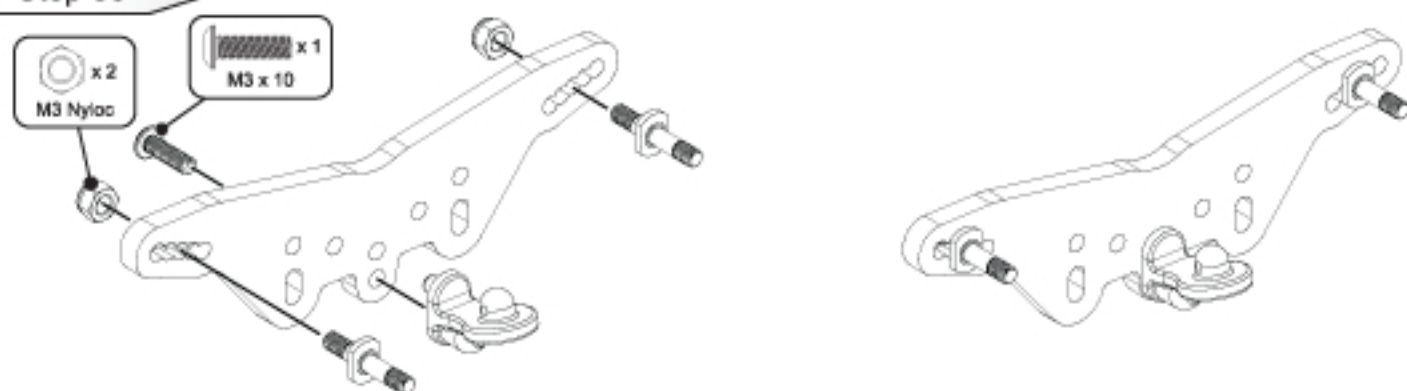
COUGAR SVR
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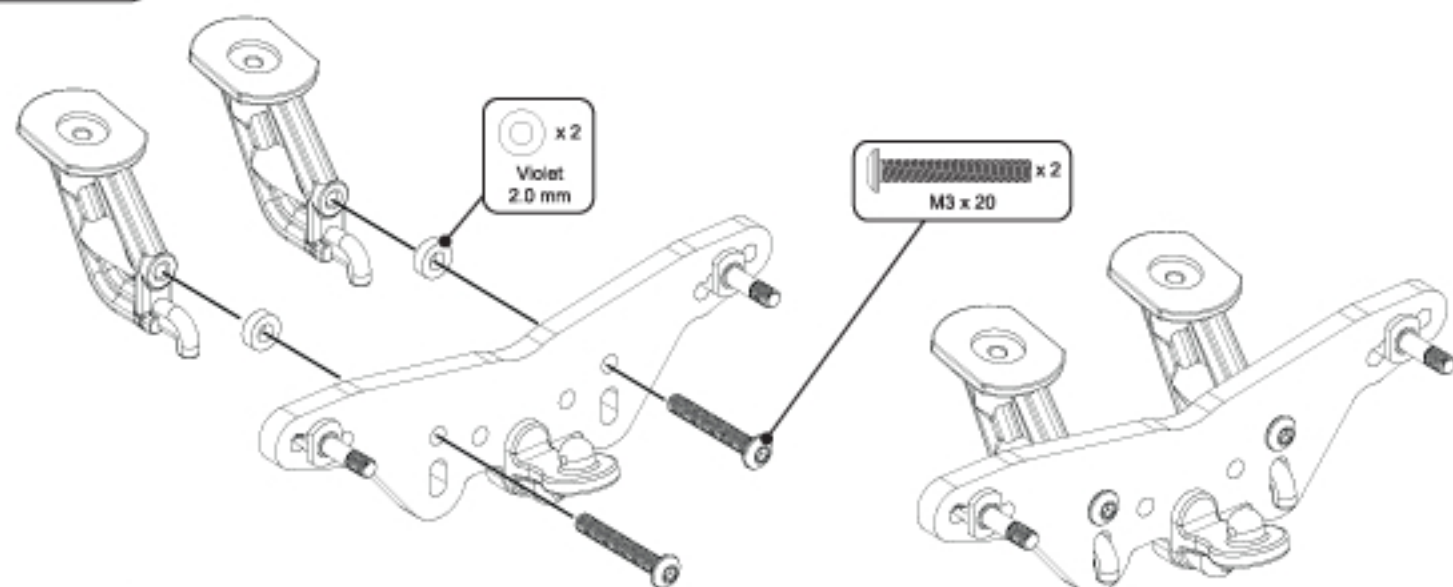
Step 32 B



Step 33

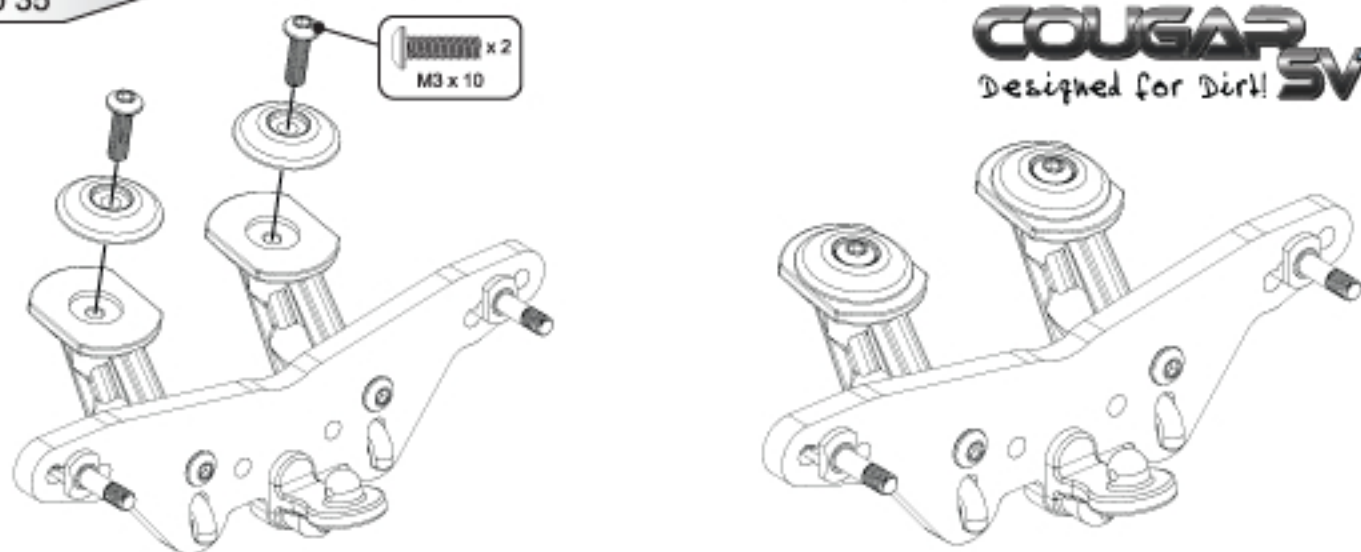


Step 34

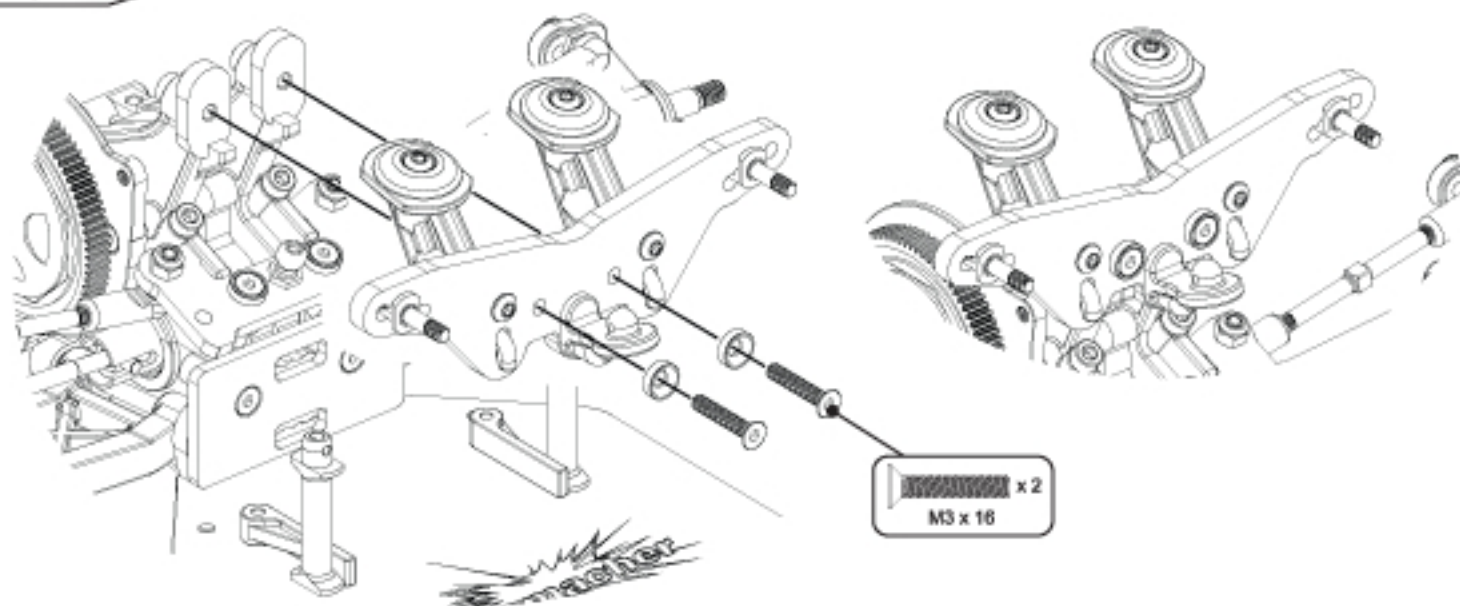


Step 35

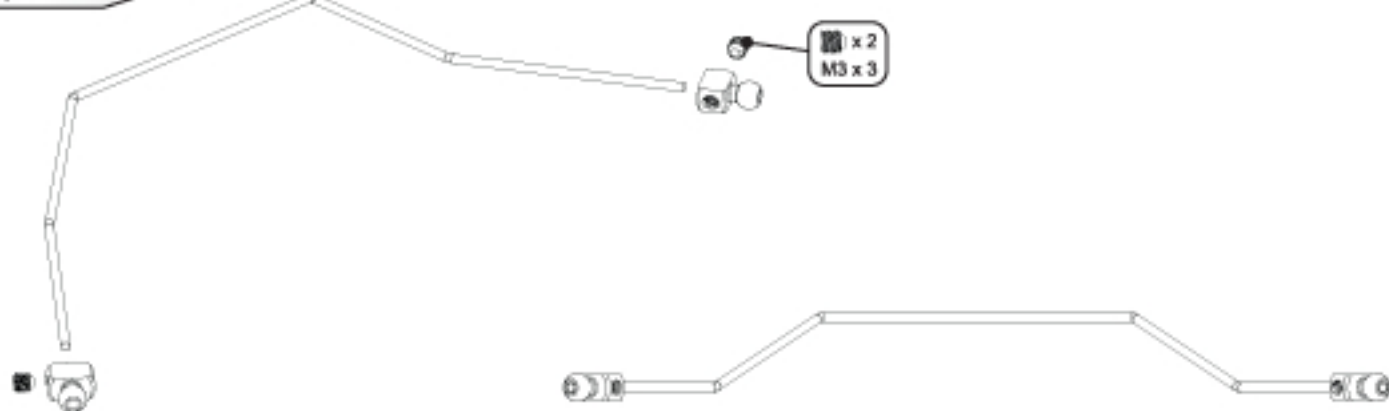
COUGAR
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Step 36



Step 37 A



Step 37 B



ELECTRIC - OFF ROAD CARS

- K133 Cougar SVR - Kit
 K134 Cougar SVR - Assembled

BODYSHELLS AND DECALS

- U4068 Decal - Cougar SVR - 2pk
 U5106 Long Wing; Max Aero
 U5111 Bodyshell - Cougar SVR

CHASSIS PARTS

- U1042 Aerial Mount - Universal
 U119 Aerial Tube - Pack 4
 U122 Velcro 1/2metrex16mm.
 U2231 Servo Horns
 U3690 Front Bumper - Cougar SV
 U3691 Servo Spacer - Cougar SV
 U3695 Pivot; Top Deck - Cougar SV pr
 U3701 Alloy Posts; Stick LiPo - Cougar SV pk2
 U3850 Wing Mount Set - CAT SX3
 U4033 Post Caps (4)- Cougar SV
 U4067 Manual - Cougar SVR
 U4070 Alloy Chassis - Cougar SVR
 U4075 Lipo Stop (4 pcs) - Cougar SVR
 U4079 C/F Top Deck 2.5mm - Cougar SVR
 U4086 Lipo Positioning Foam Block - SVR
 U4092 Side Pods - Cougar SVR
 U4093 Bottom Plate - Cougar SVR
 U4105 Rear Body Mount - Cougar SVR
 U4107 Chassis Link Set - SVR
 U4108 Top Deck Mount Front - SVR

TRANSMISSION

- U2761 Diff Shims; 10x12
 U3334 Cone; Rear Wheels pr
 U3351 Gear; CNC 83t Spur - Slipper
 U3361 Roll Pins Set 2x3/8+4x1/2 - CAT SX
 U3364 Slipper Pad; PTFE Octagon pr
 U3704 Thrust Bearing F3x8G SINI Balls
 U3740 Diff Washers; 18mm - Cougar SV
 U3834 Driveshaft; Pivot;Pin;Screw - Mi4CX 1pc
 U3869 Slipper Set - CAT SX3 (pr)
 U4004 Diff Gear; 38T CNC - Cougar SV2
 U4005 Diff Output; Female - Cougar SV2
 U4006 Diff Output; Male - Cougar SV2
 U4007 Diff; Assembled Pro Spec - Cougar SV2
 U4037 Idler Gear + Shaft - Cougar SV2
 U4040 Diff Screw Set Cougar SV2
 U4069 Driveshaft Assembled - Cougar SVR - pr
 U4071 Motor Plate - Cougar SVR
 U4072 Layshaft - Cougar SVR
 U4073 Trans Lower RH - Cougar SVR
 U4074 Trans Lower LH - Cougar SVR
 U4076 Motor Guard - Cougar SVR
 U4077 Trans Upper LH & RH - Cougar SVR
 U4083 Slipper Spacer - Cougar SVR
 U4087 Axle Rear - Cougar SVR
 U4088 Bone Rear - Cougar SVR
 U4089 Blanking Plug - Cougar SVR
 U4091 Gear Cover & Plug - Cougar SVR
 U4106 Slipper Spring

SUSPENSION

- U2722 Ball Grippa Joints - U/Sh Stud 4prs
 U2989 Ball Grippa Sockets - (pk 8)
 U3137 Shock Mounting Post - (pr)
 U3213 Turnbuckle Adjuster; Gold - 53mm (pr)
 U3214 Turnbuckle Adjuster; Gold - 60mm (pr)
 U3311 Axle Spacers - 2prs
 U3479 Ball Grippa Sockets-Short (pk 8)
 U3499 Roll Bar Blocks - Mi4 pk4

SUSPENSION Cont....

- U3706 Rod End Ball + Socket - Cougar SV2 pr
 U3708 Quick Clip 2.4mm - Cougar SV pk4
 U3709 Radius Arms - Cougar SV
 U3710 Centre Track Rod - Cougar SV
 U3712 Yokes; 0 deg - Cougar SV
 U3715 Pivot Pin; Screw Type 25mm pr
 U3716 Pivot Pin; Screw Type 32mm pr
 U3717 Steering Pivots - Cougar SV pk4
 U3718 Pivot Pin; 38mm - Cougar SV
 U3719 Pivot Pin; 45mm - Cougar SV
 U3720 Front Axles - Cougar SV pr
 U3729 Wishbone Pivot Spheres - Cougar SV pk4
 U3997 C/F Front Shock Mount - Cougar SV2
 U3999 C/F Link Mounts; Kit Fr + Rr - Cougar SV2
 U4028 Front Hub Carriers - Cougar SV2
 U4031 Front Body Post - Cougar SV2
 U4036 Hub Carrier; Rear - Cat/Cougar SV2 pr
 U4055 Wishbones; Rear Kit - Cougar SV2
 U4078 C/F Shock Mount Rear 4mm - Cougar SVR
 U4080 C/F Strap 3deg antisquat - 3deg Toe-in - SVR
 U4082 C/F Pin Retainer/Link Spacer Rear - Cougar SVR
 U4085 Rear Anti Roll Bar Set - Cougar SVR
 U4090 Ball Socket; Offset - Cougar SVR - pr
 U4094 Bulkhead - Cougar SVR
 U4095 Wishbones Front - Long (pair) - SVR
 U750 Ball Grippa Joints-Short Stud 8prs
 U851 Ball Grippa Joints - Long Stud 8prs

BEARINGS AND BALLS

- U1300 Axle Grease - Pot
 U1301 Silicone Diff Lube - Pot
 U1957 Moly Grease - Pot
 U2698 Ball Bearing - 5x10x4 Red Sealed (pr)
 U2699 Ball Bearing - 10x15x4 Red Sealed (pr)
 U3019 Diff Balls; Ceramic Nitride 2.5mm (pk12)
 U3075 Ball Bearing 4x8x3mm Red Sealed (pr)
 U3136 Ball Bearing - 5x8x2.5 - Shielded (pr)
 U3855 Ball Bearing 5x10x3 Open (pr)
 U3994 Ball Bearing 3/16x3/8 Red Sealed (pr)
 U4084 Ball Bearings - 6x12x4 Red Sealed (pr)

BIG BORE SHOCKS

- U3660 Big Bore Shocks; Med - Assembled
 U3661 Big Bore Shocks; Long - Assembled
 U3662 Big Bore Shock Body; Med pr
 U3663 Big Bore Shock Body; Long pr
 U3664 Big Bore Shock Cap; Off Road pr
 U3665 Big Bore Shock Seal Housing pr
 U3666 Big Bore Shock Adjusting Collar pr
 U3667 Big Bore Shock; Seal Rebuild Kit - Off Rd pr
 U3668 Big Bore Shock Rods; Med pr
 U3669 Big Bore Shock Rods; Long pr
 U3670 Big Bore Shock; 2 Hole Pistons pr
 U3671 Big Bore Shock; 4 Hole Pistons pr
 U3672 Big Bore Shock; 6 Hole Pistons pr
 U3770 Big Bore Rounded Pistons; 3 Hole pr
 U3771 Big Bore Rounded Pistons; 5 Hole pr
 U3937 Shock Mouldings

BIG BORE SPRINGS

- U3673 Big Bore Spring Tuning Set; Med 7prs
 U3674 Big Bore Spring Tuning Set; Long 6prs
 U3675 Big Bore Spring; Med - 2.0 pr
 U3676 Big Bore Spring; Med - 2.5 pr
 U3677 Big Bore Spring; Med - 3.0 pr

BIG BORE SPRINGS

U3678	Big Bore Spring; Med - 3.5 pr
U3679	Big Bore Spring; Med - 4.0 pr
U3680	Big Bore Spring; Med - 4.5 pr
U3681	Big Bore Spring; Med - 5.0 pr
U3682	Big Bore Spring; Long - 1.6 pr
U3683	Big Bore Spring; Long - 2.0 pr
U3684	Big Bore Spring; Long - 2.5 pr
U3685	Big Bore Spring; Long - 3.0 pr
U3686	Big Bore Spring; Long - 3.5 pr
U3687	Big Bore Spring; Long - 4.0 pr

SHOCK AND DIFF OIL

CR200	CORE R/C Silicone Oil - 100cSt - 60ml
CR201	CORE R/C Silicone Oil - 150cSt - 60ml
CR202	CORE R/C Silicone Oil - 200cSt - 60ml
CR203	CORE R/C Silicone Oil - 250cSt - 60ml
CR204	CORE R/C Silicone Oil - 300cSt - 60ml
CR205	CORE R/C Silicone Oil - 350cSt - 60ml
CR206	CORE R/C Silicone Oil - 400cSt - 60ml
CR207	CORE R/C Silicone Oil - 450cSt - 60ml
CR208	CORE R/C Silicone Oil - 500cSt - 60ml
CR209	CORE R/C Silicone Oil - 550cSt - 60ml
CR210	CORE R/C Silicone Oil - 600cSt - 60ml
G010	Pure Silicone Shock Oil - 10w
G015	Pure Silicone Shock Oil - 15w
G020	Pure Silicone Shock Oil - 20w
G025	Pure Silicone Shock Oil - 25w
G030	Pure Silicone Shock Oil - 30w
G035	Pure Silicone Shock Oil - 35w
G040	Pure Silicone Shock Oil - 40w
G045	Pure Silicone Shock Oil - 45w
G050	Pure Silicone Shock Oil - 50w

SPEED PACKS

CR024	CORE RC - Serrated M4 Steel Wheel Nut pk4
U1544	SPEED PACK - Short M3; Cap Hd
U1545	SPEED PACK - M3 Cap Hd 16;20mm
U1546	SPEED PACK - M3 Cap Hd 25;30;35;40;45mm
U1547	SPEED PACK - M3 Nuts
U1548	SPEED PACK - M3 Washers
U1550	SPEED PACK - Socket Wrenches (pk3)
U1551	SPEED PACK - E Clips - 2 x 8pcs
U1552	SPEED PACK - R Clips
U1806	SPEED PACK - Servo Tape - 30pk
U2128	SPEED PACK - Grub-Set Screws M3 M4
U2356	SPEED PACK - M3x16-30 Csk Screws (pk12)
U2760	SPEED PACK - M3 Button Hd; 4 to 20
U2858	Alloy M3x6 Spacer Set;0.5;1;2;3mm - 16pcs
U2947	SPEED PACK - M2.5 Washers (pk8)
U2988	M3 Csk Washers - Purple Alloy (pk10)
U3022	SPEED PACK - M3x8 Csk Allen Hi-T
U3023	SPEED PACK - M3x10 Csk Allen Hi-T
U3024	SPEED PACK - M3x12 Csk Allen Hi-T
U3131	Alloy Spacers M3x7mm 0.5;1;2mm (pk18)
U3572	SPEED PACK - M3x14 Grub Srew pk4
U3753	SPEED PACK - M2.5x6 Button Hd pk8
U3754	SPEED PACK - M2.5x10 Csk Hd pk8
U3755	SPEED PACK - M3x16 Unbrako Button Hd

SPEED SECRET - OPTION PARTS

CR035	CORE RC - Serrated Alloy M4 Nuts; Blue pk 4
CR036	CORE RC - Serrated Alloy M4 Nuts; Purple pk 4
CR043	CORE RC - Silver X-Weights 16pcs
CR058	CORE RC - Black X-Weights 16pcs
G876	Spec-R Gear Differential - SVR
MR-CSOFFROAD	MR33 Car Stand Off Road
S500B	Schumacher BANNER 6x3ft
U1573	Titanium Turnbuckle; purple - 53mm (pr)
U1574	Titanium Turnbuckle; purple - 60mm (pr)

SPEED SECRET - OPTION PARTS Cont....

U1954	Pro - Thrust Bearing
U3348	Gear; CNC 80t Spur - Slipper
U3349	Gear; CNC 81t Spur - Slipper
U3350	Gear; CNC 82t Spur - Slipper
U3605	Alloy Rear Hubs; 1 deg - CAT/Cougar SV
U3611	Alloy Spring Seat - All shock types pr
U3758	Yokes; 5 deg - Cougar SV
U3782	HD Diaphragm - pk4
U3790	Gear; CNC 76T Spur - Slipper
U3929	Alloy Yokes 7.5 Deg - Cougar
U3934	Hub Carrier; Zero Trail - Cougar SV
U3998	C/F Link Mount Options; Fr + Rr Cougar SV2 Set5
U4054	Wishbones Rear Medium - Cougar SV2
U4081	C/F Strap 0deg antisquat - 3deg Toe-in - SVR
U4096	C/F Strap 1deg antisquat - 3deg Toe-in - SVR
U4097	C/F Strap 2deg antisquat - 3deg Toe-in - SVR
U4098	Wishbones Front - Long Med Flex - SVR pr
U4099	C/F Chassis +6 - SVR
U4100	C/F Top Deck +6 - SVR

1-10 BUGGY WHEELS AND INSERTS

U3406	Wheel; Rear Fluoro Yellow - 2WD/4WD pr
U3765	Wheel; Med Front Fluoro Yellow - 2WD
U4101	Wheel Rear 2WD/4WD - Flexlite White - pr
U4103	Wheel Front Std 2WD - Flexlite White - pr
U4104	Wheel Front Slim 2WD - Flexlite White - pr

1-10 BUGGY OFF ROAD TYRES

CR141	Red Moulded Insert; 1/10 Off Rd Rear
CR142	Red Moulded Insert; 1/10 Off Rd 4WD Front
CR143	Multi Bow; 1/10 Off Rd Rear
CR144	Multi Bow; 1/10 Off Rd 4WD Front
CR145	Multi Block; 1/10 Off Rd Rear
CR146	Multi Block; 1/10 Off Rd 4WD Front
T650	Full Spike - Rear Tyres - Soft CAT (pr)
T652	Full Spike - Front Tyres - Soft CAT (pr)
T692	Block - Rear Tyres - Blue - CAT (pr)
T693	Block - Front Tyres - Blue - CAT (pr)
U6515	Mini Spike 2; Front Tyres - Green - 2.2 (pr)
U6516	Mini Spike 2; Rear Tyres - Green - 2.2 (pr)
U6517	Mini Spike 2; Front Tyres - Blue - 2.2 (pr)
U6518	Mini Spike 2; Rear Tyres - Blue - 2.2 (pr)
U6549	Mini Spike 2; Blue - Slim (pr)
U6550	Mini Spike 2; Green - Slim (pr)
U6557	Mini Spike 2; Front Tyres - Yellow (pr)
U6558	Mini Spike 2; Rear Tyres - Yellow (pr)
U6581	Mini Spike 2; standard - Yellow - Slim (pr)
U6595	Full Spike - Front Tyres - Yellow - 2.2 (pr)
U6596	Full Spike - Rear Tyres - Yellow - 2.2 (pr)
U6601	Mini Pin - Blue - Front - 2.2 (pr)
U6602	Mini Pin - Blue - Rear - 2.2 (pr)
U6607	Mini Pin - Yellow - Front - 2.2 (pr)
U6608	Mini Pin - Yellow - Rear - 2.2 (pr)
U6609	Mini Pin - Yellow - Slim (pr)
U6652	Foam Tyre Insert; Hard - Front - CAT (pr)
U6653	Foam Tyre Insert; Hard - Rear - CAT (pr)
U6667	Foam Tyre Insert; Hard - Slim 2WD (pr)
U6668	Foam Tyre Inserts; Soft - Ultra Wide (pr)
U6669	Foam Tyre Inserts; Hard - Ultra Wide (pr)
U6733	Foam Tyre Insert; Med - Front - CAT (pr)
U6734	Foam Tyre Insert; Med - Rear - CAT (pr)
U6738	Foam Tyre Insert; Med - Slim 2WD (pr)
U6740	Mini Spike2 Pre-Glue; Yellow - Cat Rear (pr)
U6742	Mini Pin Pre-Glue; Yellow - Cat Rear (pr)

1-10 BUGGY OFF ROAD TYRES Cont...

U6746	Tubby Insert; Med Front - CAT (pr)
U6747	Tubby Insert; Med Rear - CAT (pr)
U6753	Mini Spike; Slim Yellow - Pre-Glued (pr)
U6755	Mini Pin; Slim Yellow - Pre-Glued (pr)
U6759	Cut Stagger - Yellow - Slim (pr)
U6760	Cut Stagger; Slim Yellow - Pre-Glued pr
U6761	Mini Spike 2; Silver - Slim (pr)
U6762	Mini Spike 2; Front Tyres - Silver (pr)
U6763	Mini Spike 2; Rear Tyres - Silver (pr)
U6765	Cut Stagger Green - Slim (pr)
U6770	Cut Stagger - Low Profile - Yellow (pr)
U6771	Cut Stagger - Low Profile - Green (pr)
U6775	Cut Stagger - Low Profile - Silver (pr)

TEAM CLOTHING

G315	Schumacher Pit Towel
G331L	T Blue - Large
G331M	T Blue - Medium
G331S	T Blue - Small Man
G331XL	T Blue - X-Large
G331XXL	T Blue - XX-Large
G331XXXL	T Blue - XXX-Large
G331XXXXL	T Blue - XXXX-Large
G334	Cap - Black; Medium 58cm
G335	Cap - Black; Large 62cm
G336L	Sweat - Large
G336M	Sweat - Medium
G336S	Sweat - Small
G336XL	Sweat - X-Large
G336XXL	Sweat - XX-Large
G337	Coffee Mug - Schumacher Logo
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

TOOLS

CR100	Shock Shaft Pliers - Purple
CR101	Shock Shaft Pliers - Black
CR102	Magnetic Parts Tray - Purple
CR103	Magnetic Parts Tray - Black
CR148	CORE RC - Polybutler Pit Box; Black
ED181002	Chassis Droop Gauge Blocks 20mm for 1/8,1/10 (2)
H1032	Alloy Camber Gauge - 1/10th
H1055	GT85 Lube and Clean Aerosol 400ml
H1056	Loctite 243 Thread Lock
H1057	Loctite Precision Super Glue - 5g
HW010	Circclip Pliers; Internal - Wiha
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

ELECTRONICS

AN530400HV	Digital BL Servo 10.7Kg for 1/10th Steering
AN530410HV	Digital BL Servo 22Kg for 1/8 & 1/10 Buggy
CR007	CORE RC Silicone Wire 12g - Red/Black 2x50cm
CR008	CORE RC RED Connector with 2x4mm Tubes
CR009	CORE RC RED Connector with 2x4mm Males
CR050	CORE RC Silicone Wire 12g - Red 1 Metre

ELECTRONICS Cont....

CR051	CORE RC Silicone Wire 12g - Black 1 Metre
CR052	CORE RC Silicone Wire 12g - Blue 1 Metre
CR053	CORE RC Silicone Wire 12g - Red 50 Metre Reel
CR054	CORE RC Silicone Wire 12g - Black 50 Metre Reel
CR055	CORE RC Silicone Wire 12g - Blue 50 Metre Reel
CR115	CORE RC Silicone Wire 12g - Red/Black/Blue 3x50cm
CR119	Heatshrink 1.5mm dia Black - 20pcs
CR120	Heatshrink 2.0mm dia Black - 20pcs
CR124	Heatshrink 6.0mm dia Black - 20pcs
CR125	Heatshrink 6.0mm dia Red - 20pcs
CR126	Heatshrink 6.0mm dia Blue - 20pcs
CR151	CODE 2.4G FHSS LCD 2 Stick TxRx
CR152	CODE 2.4G FHSS LCD - Rx Only
CR153	CODE 2.4G FHSS Sport 2 Stick TxRx
CR154	CODE 2.4G FHSS Sport - Rx Only
CR155	Antenna 2.4G
CR162	CORE RC Sensor Checking Widget
ED199502	EDS Ultra Bright L.E.D. Light Stand
G837	Mini Temp Gun - 420F 230C
GM7987	Servo HBS 790 BB, MG
GM7990	Servo HBS 860 BB, MG
GM7991	Servo HBS 870 BB, MG
GM94411	GM Soldering Station 90W ESD

PINIONS

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

BATTERIES

CR059	CORE RC - Safe Charge Pouch 23x30cm
CR170	CORE RC Lipo Locker - 17 x 8 x 7cm
G718	GP Alkaline AA Pencil; Card 4
G721	AA Pencil 2500NiMH - Card 4
GM99009	Lipo-saddle V-Maxx 60C 2x1S3P/5600 3, 7V G4
GM99018	Lipo Battery V-Maxx 70C 2S2P/6800 7.4v G

BATTERIES Cont...

H1046 T Connector; Red 2 Way - Male and Female
 H1047 T Connector; Black 2 Way - Male and Female
 H1048 T Connector; Red Sockets - pk4
 H1049 T Connector; Black Sockets - pk4
 MR-SB MR33 Lipo Bag
 NR99937 NOSRAM Lipo 6900 X-Treme Race -50C/100C-7.4V
 NR99938 NOSRAM Lipo 6700 B/Mama X-Treme Race 55C/110C-7.4V
 NR99941 NOSRAM Lipo 5600 X-Treme Race Saddle 55C/110C-7.4V
 NR99942 NOSRAM Lipo 4400 X-Treme Race Stub 55C/110C-7.4V
 NR99948 NOSRAM Lipo 5000 Saddle - 7.4V 50C
 NR99951 Lipo 6200 Big Mama X-treme Race H/case 65C-7.4V
 NR99963 VTEC Lipo TX-Pk Sarwa M11-X/MX-3X-7.4V
 TP4P10E Thunder Power 4 Pin Balance connector 10Extension!
 TP4P8 TP 4 Pin Balance Connector 8 Colour Coded Wires!
 TP3800-2SPR65S Thunder Power Lipo 3800mAh 2S shorty - 65C/130C
 TP5000-2SPR65S Thunder Power Lipo 5000mAh 2S saddle - 65C/130C
 TP5300-2SPR65B Thunder Power Lipo 5300mAh 2S - 7.4V - 65C/130C
 TP6000-2SPR65B Thunder Power Lipo 6000mAh 2S - 7.4V - 65C/130C
 TP6P10E Thunder Power 6 Pin Balance Connector 10Extension!
 TP6P13 TP 6 Pin Balance Connector 13 Colour Coded Wires!
 TP6P4PE Thunder Power 6 Pin Adaptor/Extension
 TPLSBL Thunder Power Lipo Charge Bag Large 9 x 12"
 TPLSBS Thunder Power Lipo Charge Bag Small 7 x 8" x 5"
 TP-AL-2S Adaptor Lead - 2S JST to TP

BRUSHLESS SPEEDCONTROLS

GM97168.B GM-Genius 120 Booster 3.7 - 7.4V
 NR90430 One Brushless ESC
 NR90905 Pearl Evolution V2 Brushless ESC
 NR90915 Pearl Evolution Racing Spec V2 - B/less Speed Cont
 NR90955 Pearl Evolution ISTC V2 Brushless ESC
 SP000043 Reventon-R ESC - 2S - Orange
 SP000063 Reventon-R ESC - 2S - Blue
 SP000064 Reventon-R ESC - 2S - Silver
 SPEXT98802B Speed Passion GT V2.0 ESC - Blue
 SPEXT98802LPB Speed Passion LPF V2.0 ESC - Blue
 SPEXT98802LPF Speed Passion LPF V2.0 ESC - Carbon Look
 SPEXT98802LPS Speed Passion LPF V2.0 ESC - Silver
 SPEXT98802PRO Speed Passion GT V2.0 ESC - Carbon Look
 SPEXT98802S Speed Passion GT V2.0 ESC - Silver

CHARGERS AND DISCHARGERS

CR114 UDC Balance Adaptor Set JST-XH to JST-EH 2-6S
 CR161 UAC50 Charger 12v/110-240v 6A
 G834 Charger 240v UK; 7.2/Tx/Croc 1.2-12v
 GM6468.GB Ultramat 16S + 3076
 NR91400 Sigma Power Charger
 NR91555 Stealth Touch Evolution Charger
 NR93160 Noeram Power Supply 13.8V / 20A
 NR95815 Noeram Universal Charging Lead-Tamiya/JST Plug
 NR95816 Noeram Universal Chg Lead-2S Lipo H/Case/Bal Adpt
 NR95817 Noeram Universal Chg Lead- US-Style Plug
 TP1201P 100-240V AC - 12V DC, 1.0A Switching Adaptor TP103
 TP1205P 100-240V AC-12V DC, 5.0A Switching Adaptor
 TP14SAB-TPJXH Balance Conn Adaptor 2S-14S JST-XH - TP1430C
 TP205V Thunder Power 2-5 Cell Lipo Smart Balancer
 TP610C Thunder Power 10 Amp DC Balance Charger
 TP610C-ACDC Thunder Power 10 Amp AC/DC Balance Charger
 TP610C-BL2 Balance Conn Adaptor 2S/6S JST-XH 610C-ADC
 TP820CDual Port 20A DC charger/Cycler
 TP8SAB-TPJXH Balance Conn Adaptor Board 2S-8S JST-XH 820CD

BRUSHLESS MOTORS

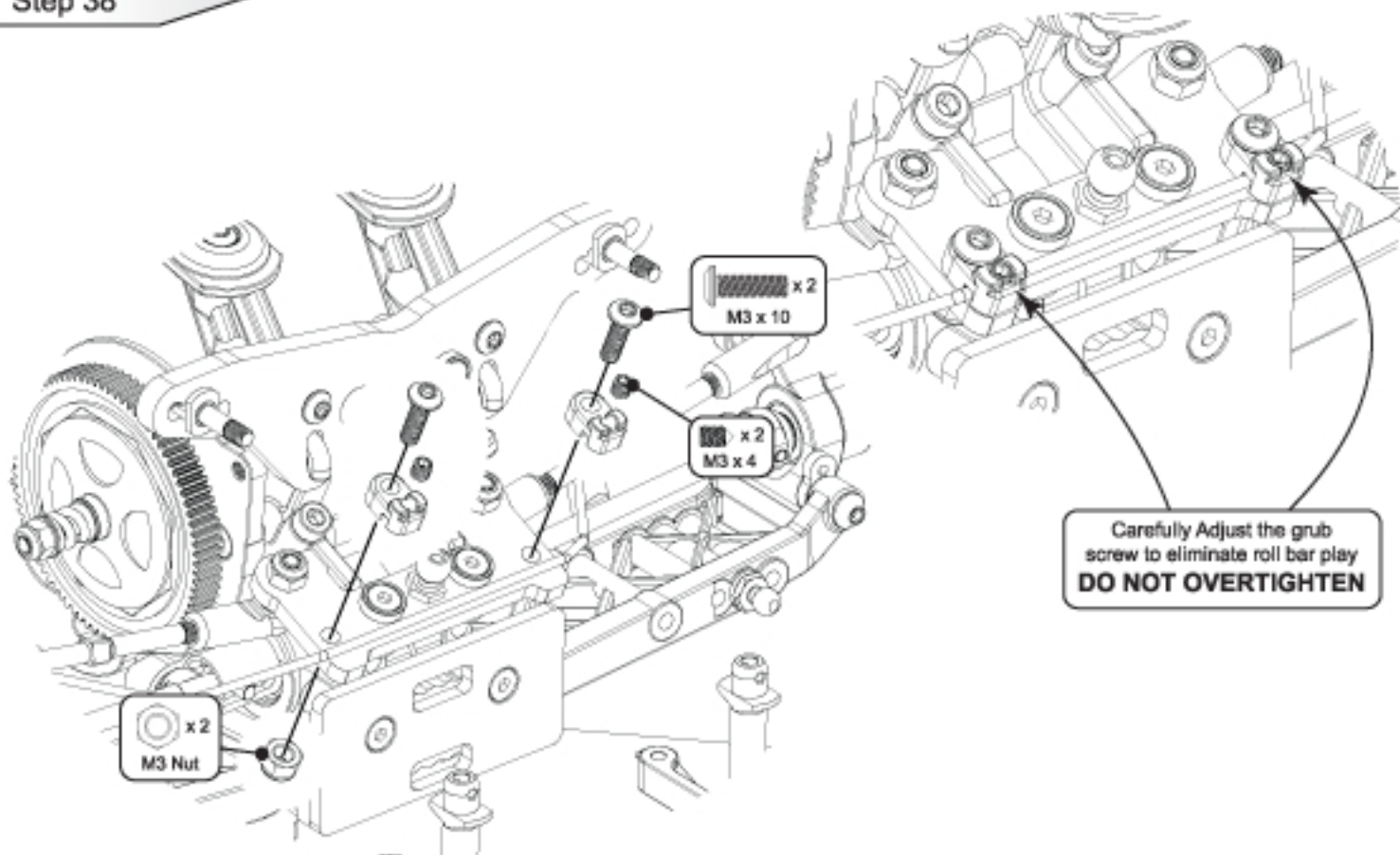
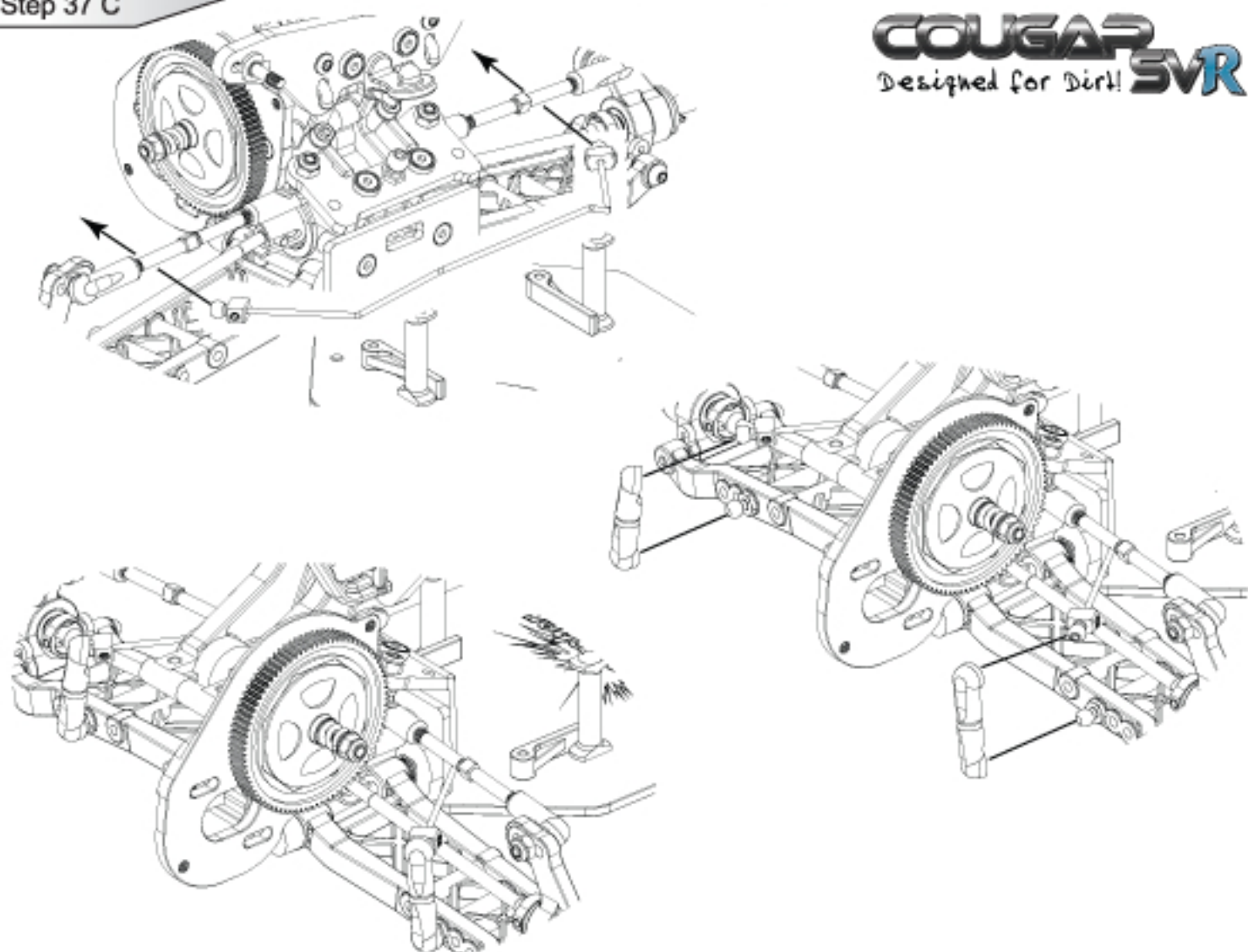
GM97296GM Pro 6.5T - Star Wind
 NR90550 Cobra Brushless Motor - 6.5T
 NR90648 Noeram Pure 2 BL - 10.5T
 NR90649 Noeram Pure 2 BL - 9.5T
 NR90664 Noeram Pure 2 BL - 7.5T
 NR90673 PURE Evolution BL - 6.5T OCTA WIND
 NR90684 Noeram Pure 2 BL - 5.5T
 NR90689 Noeram Pure 2 BL - 5.0T
 NR90693 PURE Evolution BL - 4.5T OCTA WIND
 NR90704 Noeram Pure 2 BL - 4.0T
 SP000015 Ultra Sportsman Version 3.0 Sensor Motor 10.5R
 SP000016 Ultra Sportsman Version 3.0 Sensor Motor 13.5R
 SP000017 Ultra Sportsman Version 3.0 Sensor Motor 17.5R
 SP000025 Ultra Sportman Version 3.0 Sensor Motor 5.5R
 SP000027 Ultra Sportsman Version 3.0 Sensor Motor 7.5R

BRUSHLESS MOTORS Cont...

SP000028 Ultra Sportsman Version 3.0 Sensor Motor 8.5R
 SP000148 1/10 Competition MMM Series 5.0R BL Motor
 SP000151 1/10 Competition MMM Series 4.0R BL Motor
 SP13855V3 Speed Passion V3.0 Comp BL Motor; 5.5T
 SP13865V3 Speed Passion V3.0 Comp BL Motor; 6.5T
 SP000028 Ultra Sportsman Version 3.0 Sensor Motor 8.5R
 SP000148 1/10 Competition MMM Series 5.0R BL Motor
 SP000151 1/10 Competition MMM Series 4.0R BL Motor
 SP13855V3 Speed Passion V3.0 Comp BL Motor; 5.5T
 SP13865V3 Speed Passion V3.0 Comp BL Motor; 6.5T
 SP13875V3 Speed Passion V3.0 Comp BL Motor; 7.5T
 SP13885V3 Speed Passion V3.0 Comp BL Motor; 8.5T
 TPM-540A055 Thunder Power 5.5T Modified 540 BL Motor
 TPM-540A060 Thunder Power 6.0T Modified 540 BL Motor
 TPM-540A065 Thunder Power 6.5T Modified 540 BL Motor
 TPM-540A075 Thunder Power 7.5T Modified 540 BL Motor
 TPM-540A085 Thunder Power 8.5T Modified 540 BL Motor
 TPM-540A095 Thunder Power 9.5T Modified 540 BL Motor

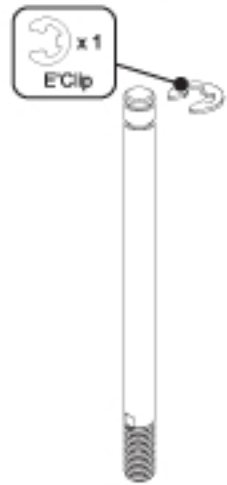
BRUSHLESS ACCESSORIES

CR133 Core Sensor Lead; 80mm
 CR134 Core Sensor Lead; 180mm
 GM2894.9 Sensor Adaptor Cable - Gm-Evo2/Novak-M
 NR92500 USB Bridge - Speedo Firmware Update Device
 NR92501 USB Bridge Spec2 - Speedo Firmware Update Device
 NR92512 Cooling Fan; Low Profile - include Mounting Screws
 SP000004 Reventon Capacitor 4S
 SP000005 Reventon Capacitor 2S
 SP000007 Muti LED Program Card Version 2.0
 SP000008 Reventon Blue-Tooth* Module*
 SP000009 Reventon WiFi* Module*
 SP000029 Sensor Unit +20 Timing*for V3.0 Motor-Green Color*
 SP000034 Sensor Unit +10 Timing* for V3.0 Motor-Red Color*
 SP000041 Sensor Unit for V3.0 - 4.0T/5.0T Motor
 SP138MS105 10.5R Stator for Competition Version 3.0 Motor
 SP138MS135 13.5R Stator for Competition Version 3.0 Motor
 SP138MS175 17.5R Stator for Competition Version 3.0 Motor
 SP138MS215 21.5R Stator for Competition Version 3.0 Motor
 SP162801 SP - Sensor Cable 180mm
 SP162802 SP - Sensor Cable 90mm
 SP162803 SP - Sensor Cable 250mm
 SPSB428 Sensor unit with Team protect for V3.0 motor
 TPM-P1000 Thunder Power Bearing Replacement Tool
 TPM-P1001 T-Power Bearing Std 1/8x3/8x5/32 (2pcs) S/M 540*
 TPM-P1002 T-Power Bearing Ceramic 1/8x3/8x5/32 (2pcs)S/M540*
 TPM-P1005 Thunder Power Sensor Unit w/Std Bearing S/M540/550
 TPM-P1007 Thunder Power Outer Can/Case w/Screws S/M 540
 TPM-P1008 Thunder Power Timing Cap w/Screws S/M540/550
 TPM-P1010 Thunder Power Sensor Wire Harness 110mm
 TPM-P1011 Thunder Power Sensor Wire Harness 200mm
 TPM-P1012 Thunder Power Sensor Wire Harness 270mm
 TPM-P1014 Thunder Power Insulator Set (Fr/Rr) S/M 540/550
 TPM-R540AHT Stock Spec 540 Hi-Torque Rotor 12.5/7.25/25.0 Grm
 TPM-R540AMR Thunder Power Mod 540 Rotor 12.2/5.2/25.0 Purple
 TPM-R540AMR-S Thunder Power Mod 540 Rotor 12.0/5.0/25.3 Gold
 TPM-R540ASR T-Power Stock Spec 540 Rotor 12.2/7.25/24.2 Red
 TPM-R540AST T-Power StockSpec Torque Rotor 12.2/7.25/25.0 Blue
 TPM-S540A030 Thunder Power 3.0T Modified 540 Stator Motor
 TPM-S540A035 Thunder Power 3.5T Modified 540 Stator Motor
 TPM-S540A040 Thunder Power 4.0T Modified 540 Stator Motor
 TPM-S540A045 Thunder Power 4.5T Modified 540 Stator Motor
 TPM-S540A050 Thunder Power 5.0T Modified 540 Stator Motor
 TPM-S540A055 Thunder Power 5.5T Modified 540 Stator Motor
 TPM-S540A060 Thunder Power 6.0T Modified 540 Stator Motor
 TPM-S540A065 Thunder Power 6.5T Modified 540 Stator Motor
 TPM-S540A075 Thunder Power 7.5T Modified 540 Stator Motor
 TPM-S540A085 Thunder Power 8.5T Modified 540 Stator Motor
 TPM-S540A095 Thunder Power 9.5T Modified 540 Stator Motor
 TPM-S540A105 Thunder Power 10.5T Stock Spec 540 Stator Motor
 TPM-S540A135 Thunder Power 13.5T Stock Spec 540 Stator Motor
 TPM-S540A175 Thunder Power 17.5T Stock Spec 540 Stator Motor
 TPM-S540A215 Thunder Power 21.5T Stock Spec 540 Stator Motor

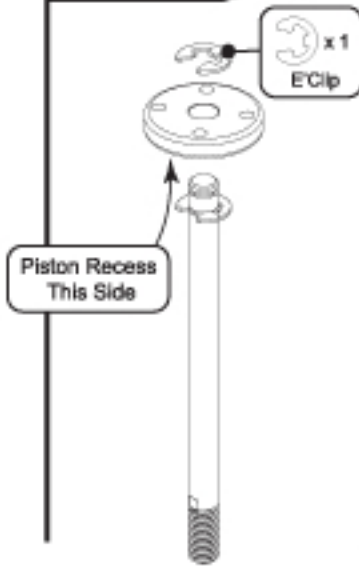




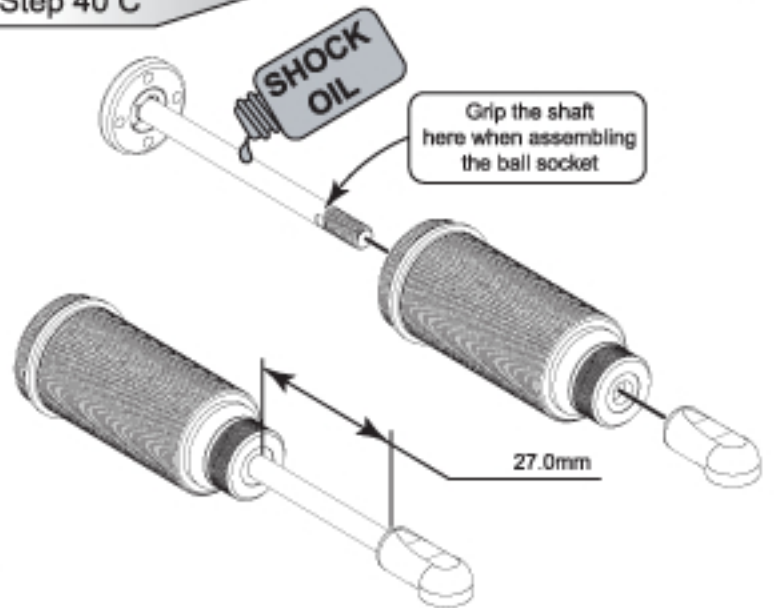
Step 40 A



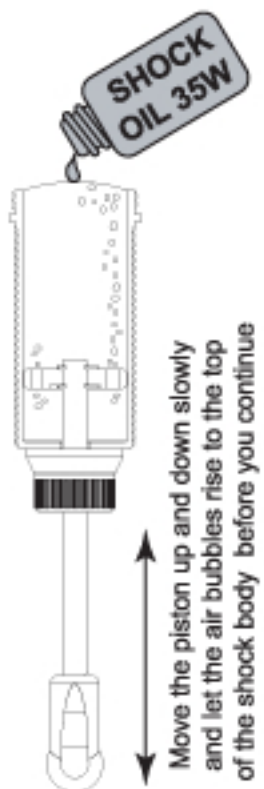
Step 40 B



Step 40 C

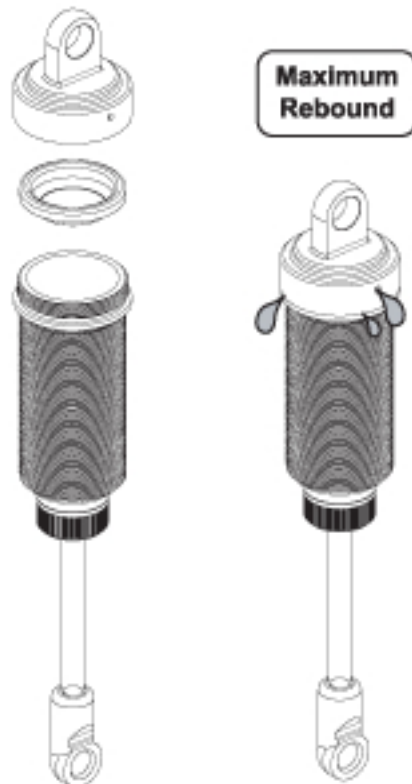


Step 41 A



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

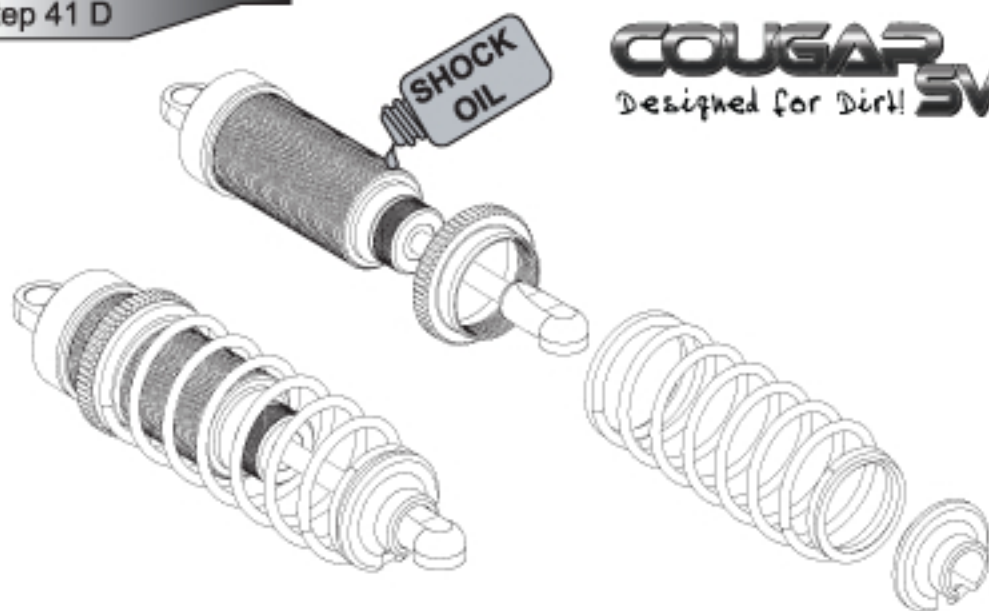
Step 41 B



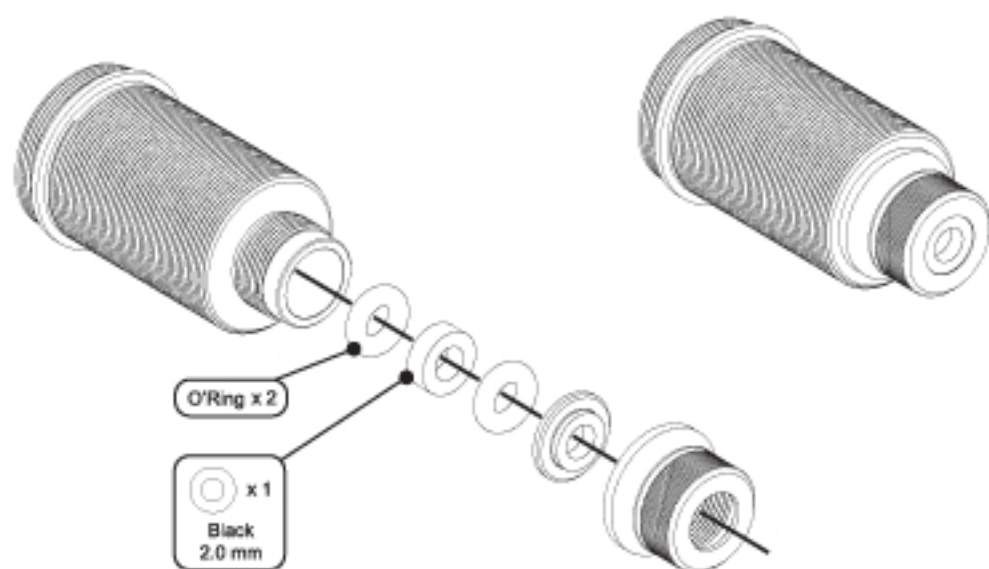
Step 41 C



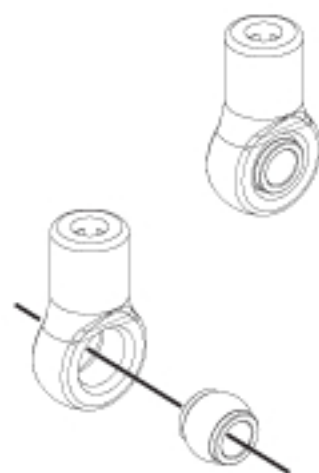
Step 41 D



Step 42



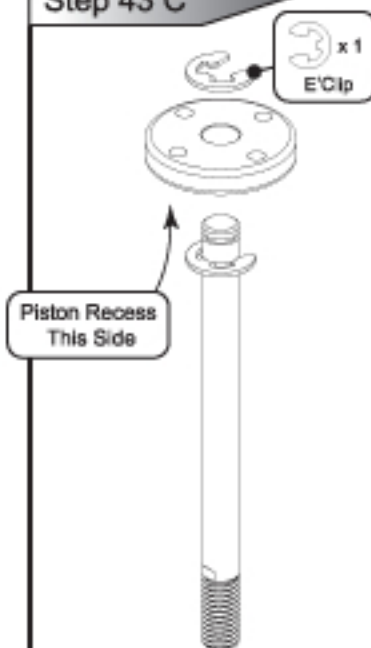
Step 43 A



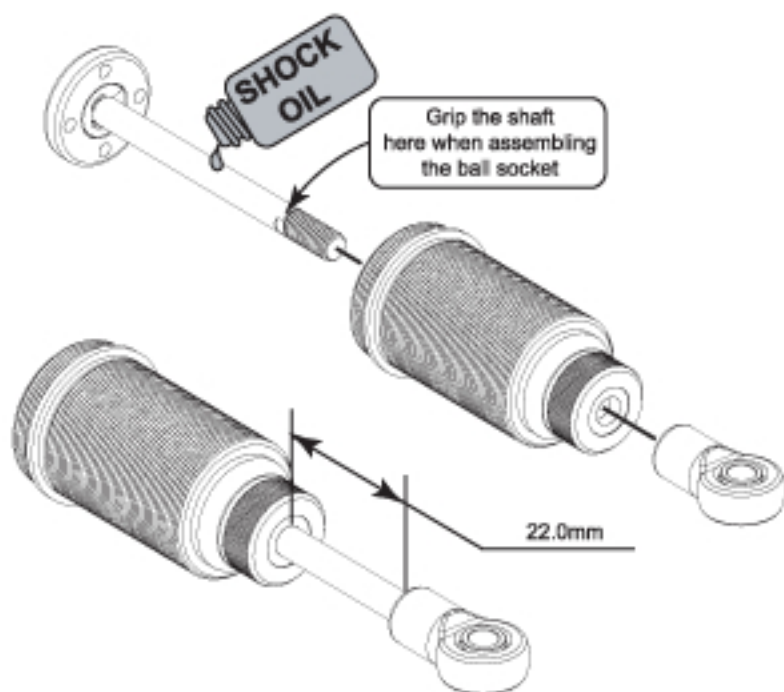
Step 43 B



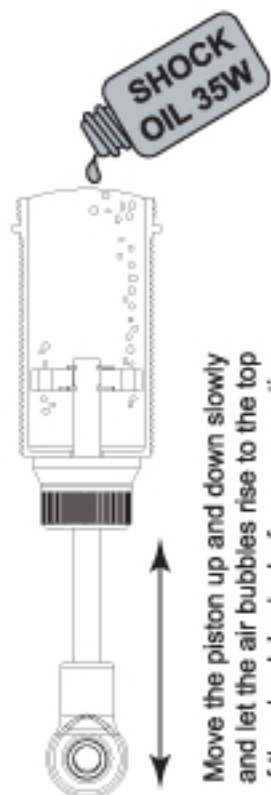
Step 43 C



Step 43 D

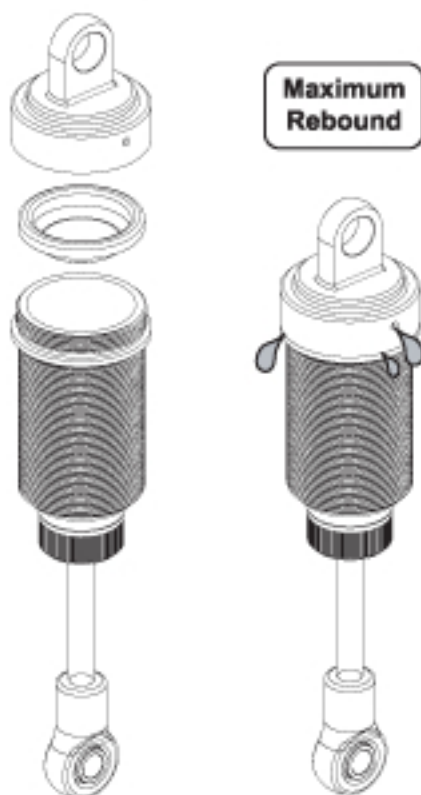


Step 44 A



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

Step 44 B



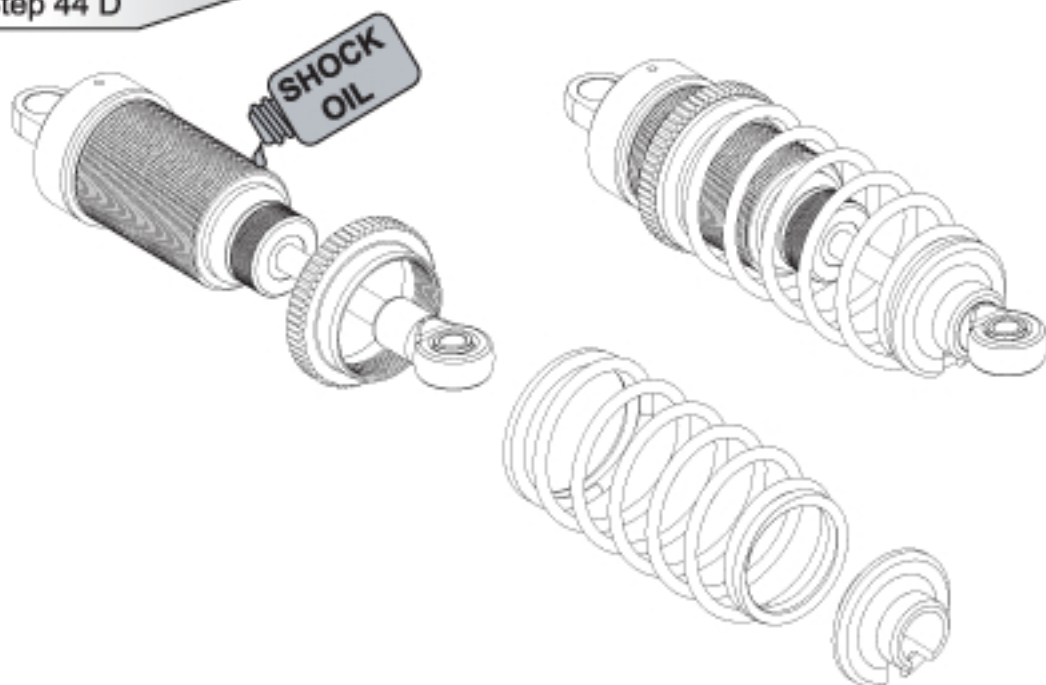
COUGAR SVR
Designed for Dirt!



Step 44 C



Step 44 D

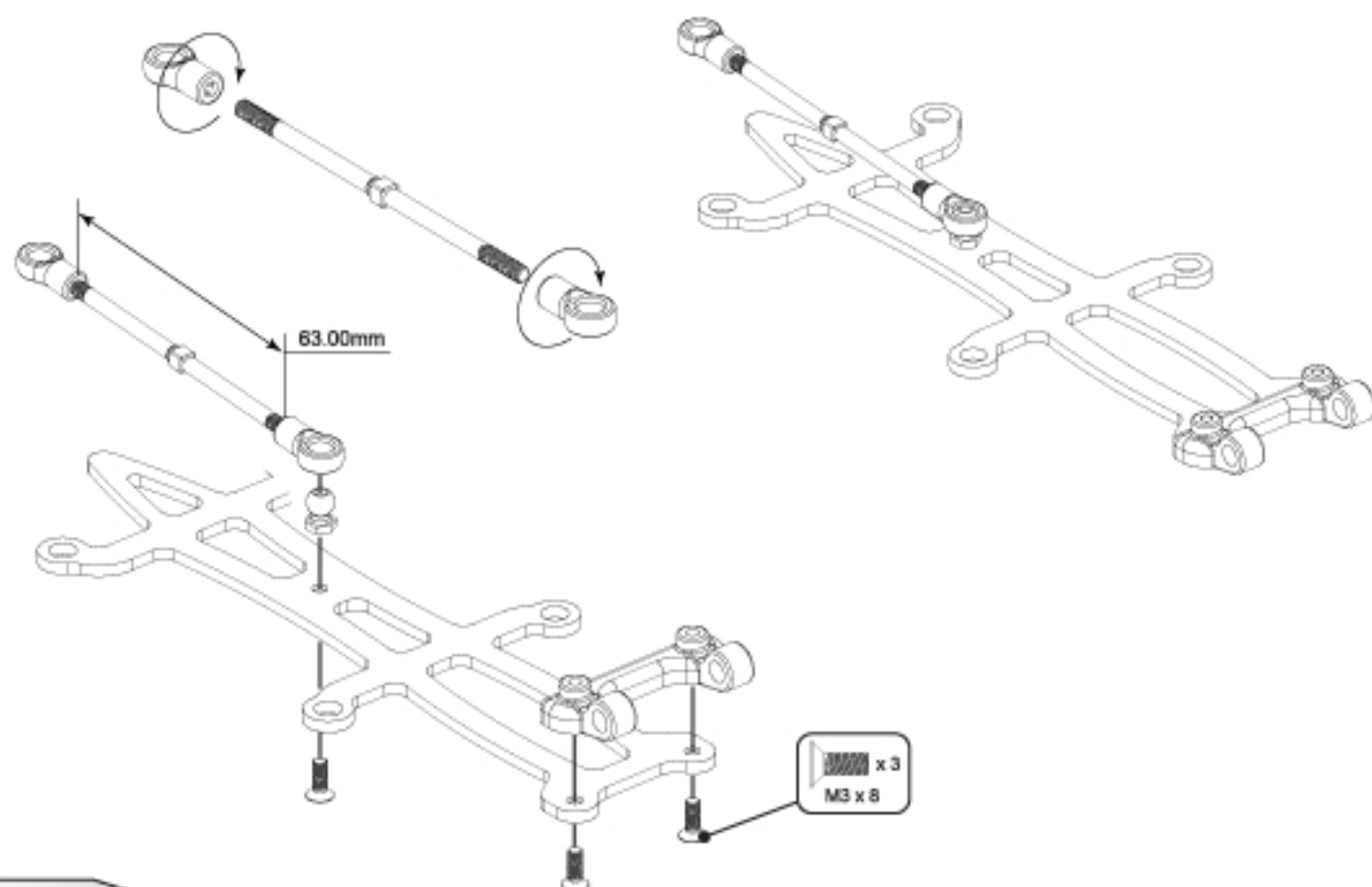
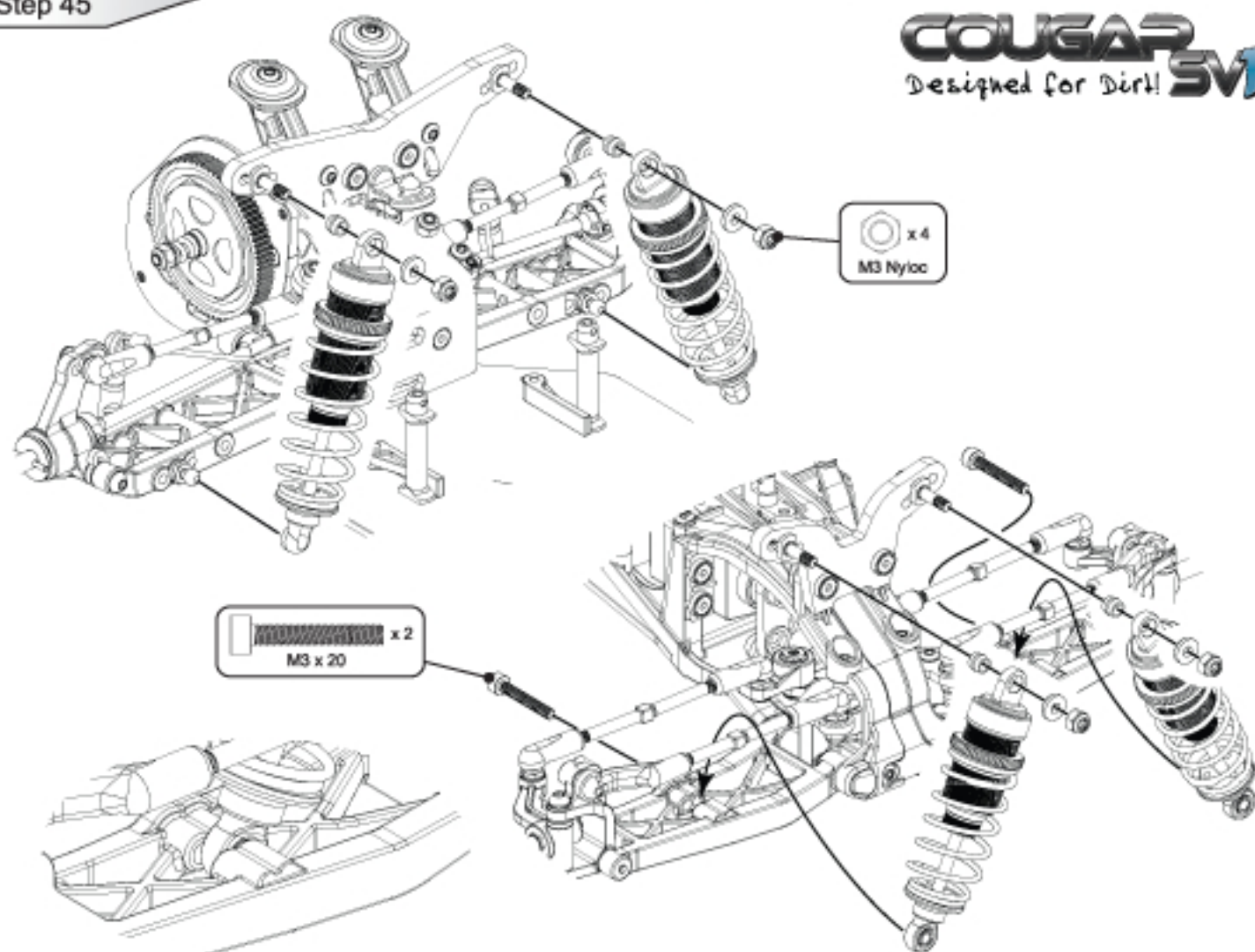


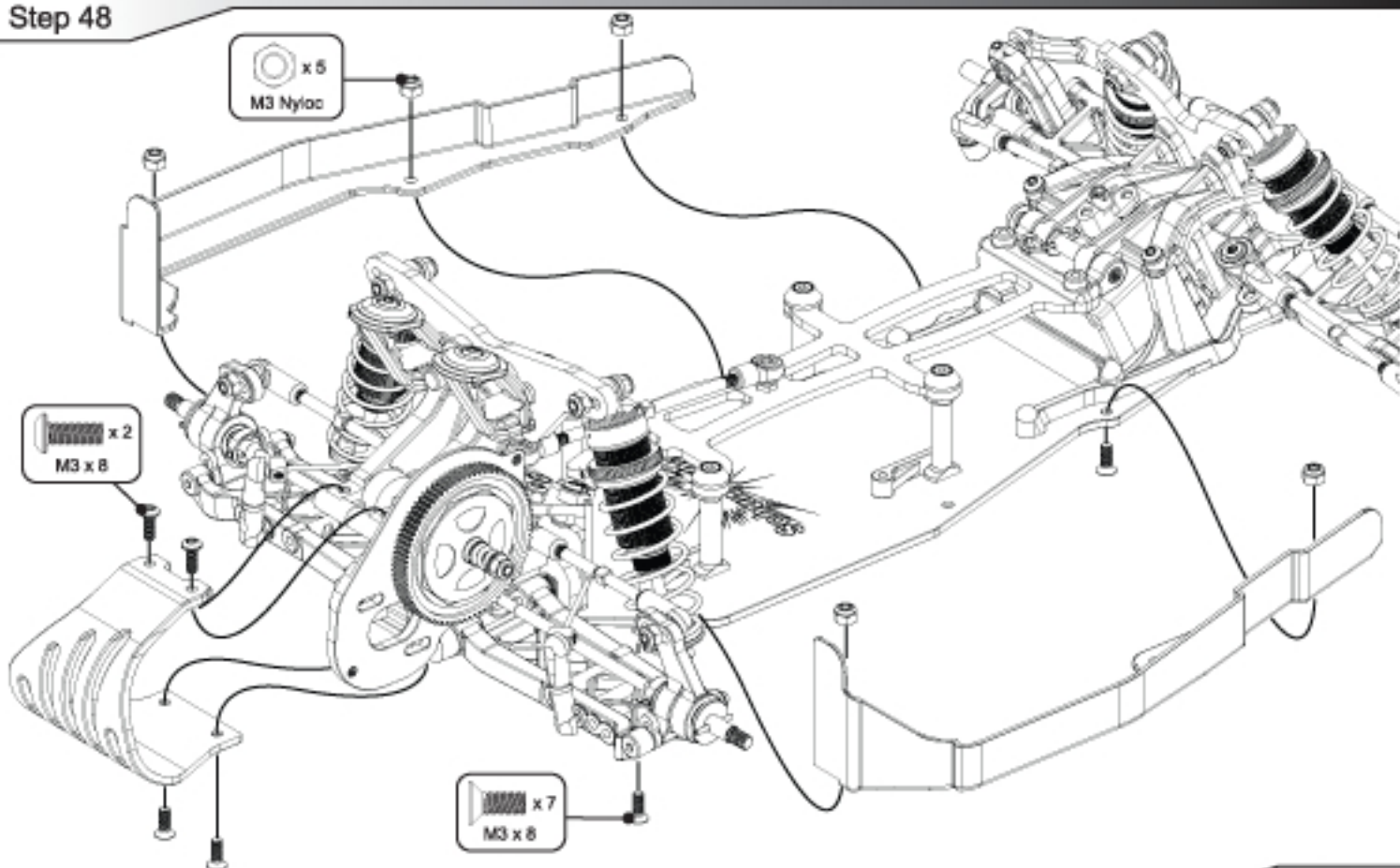
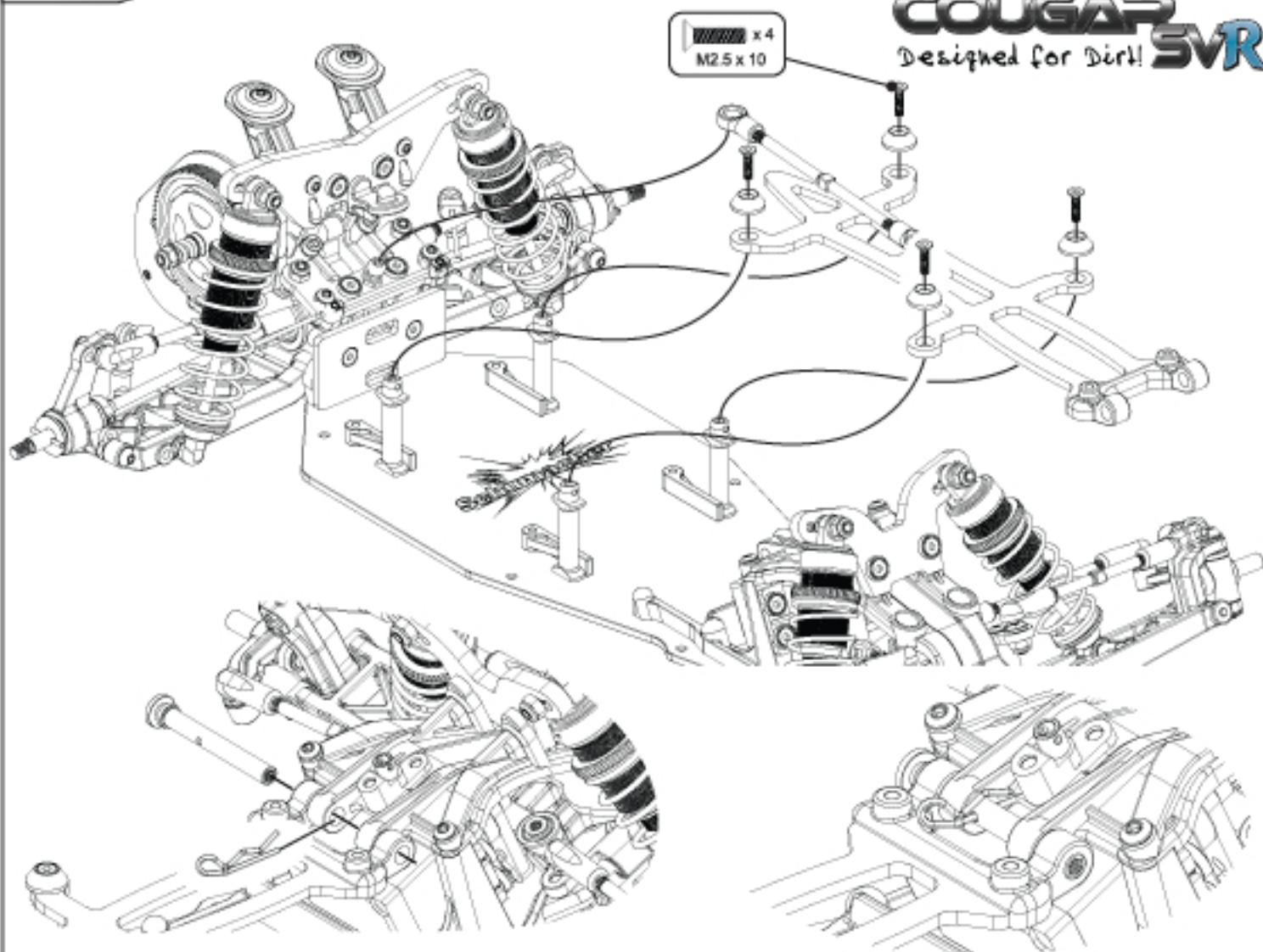
Silicone Oils

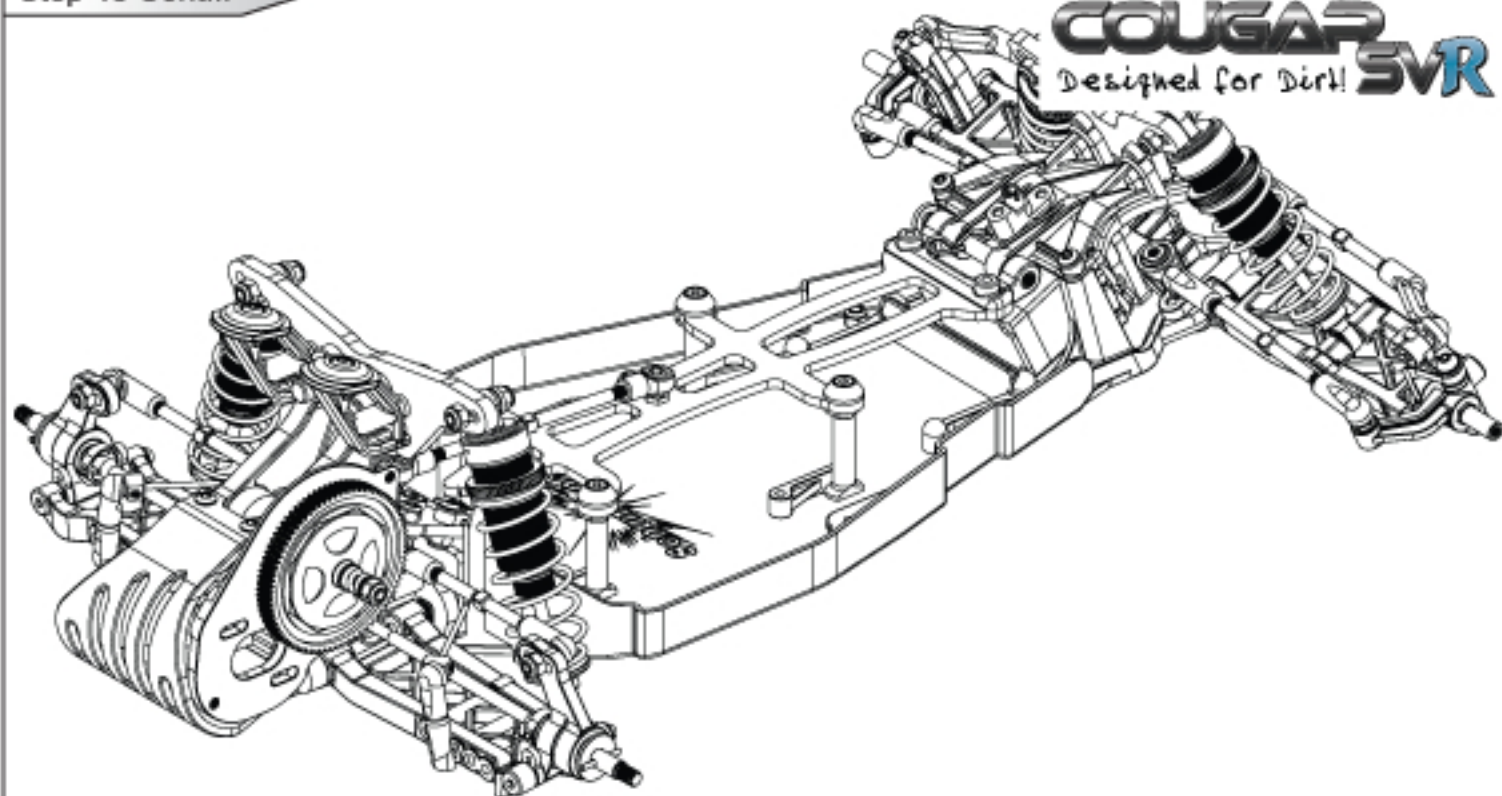


CORE-RC
.COM

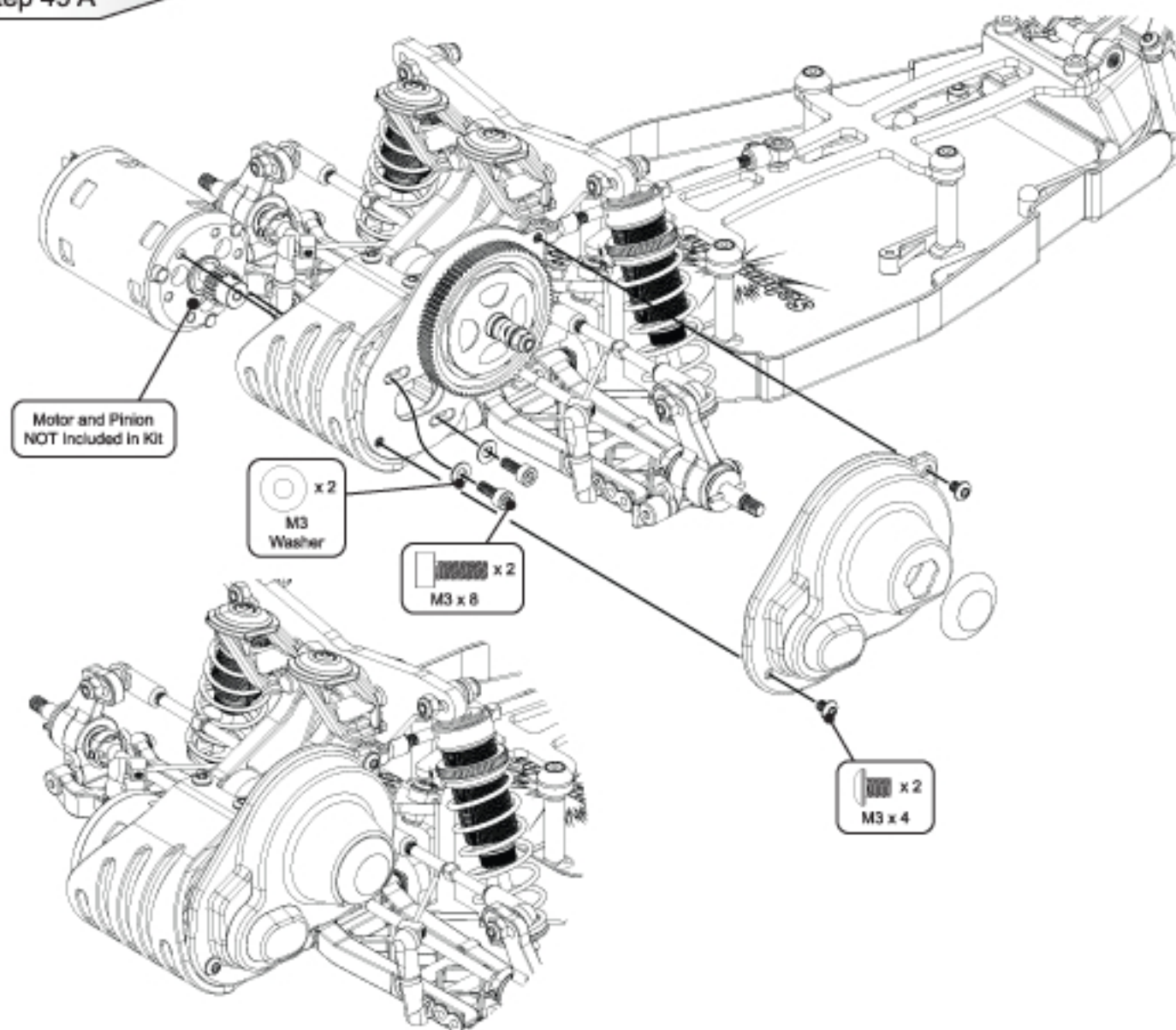
- CR200 CORE R/C Silicone Oil - 100 cSt - 60ml
- CR201 CORE R/C Silicone Oil - 150 cSt - 60ml
- CR202 CORE R/C Silicone Oil - 200 cSt - 60ml
- CR203 CORE R/C Silicone Oil - 250 cSt - 60ml
- CR204 CORE R/C Silicone Oil - 300 cSt - 60ml
- CR205 CORE R/C Silicone Oil - 350 cSt - 60ml
- CR206 CORE R/C Silicone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

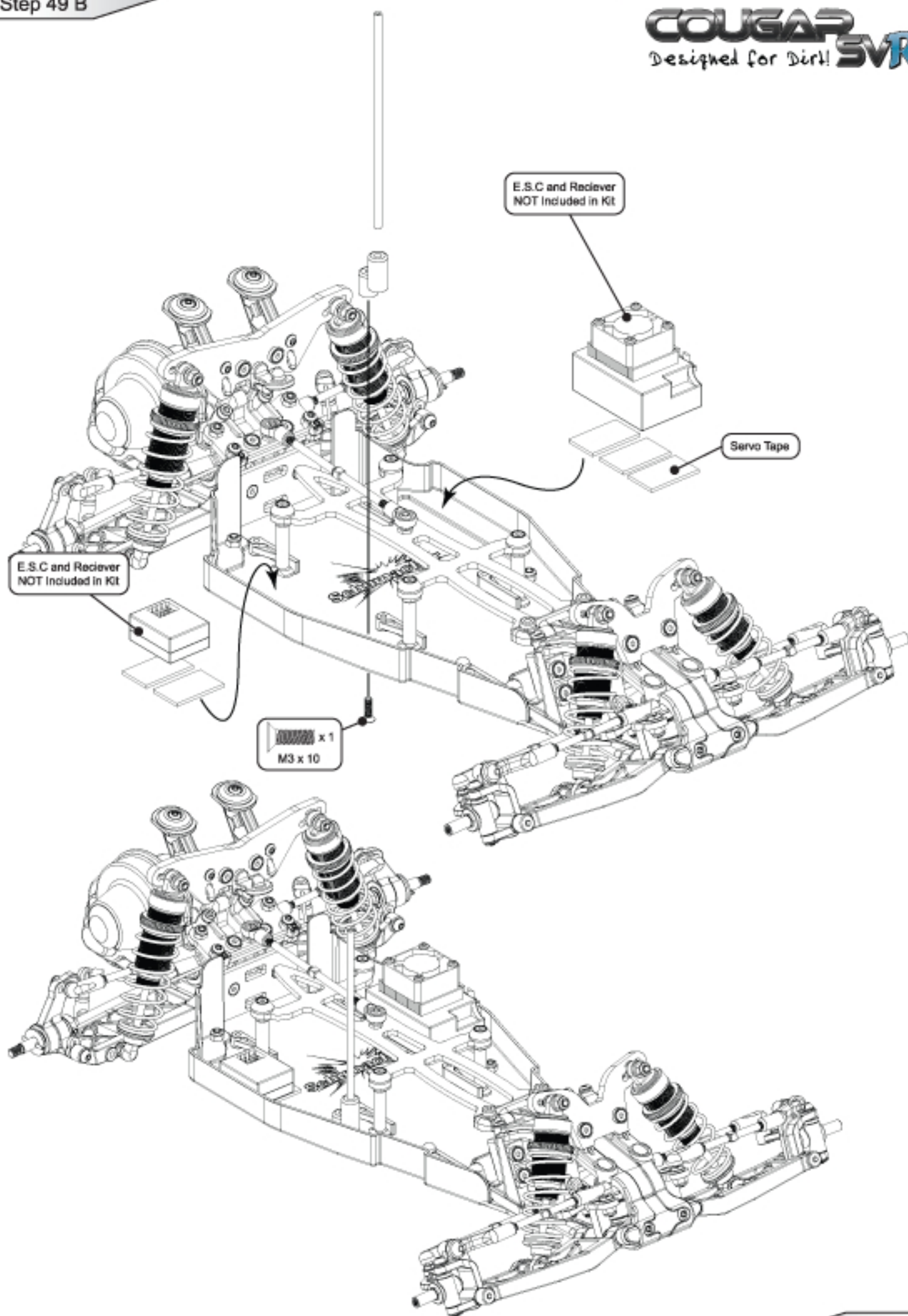


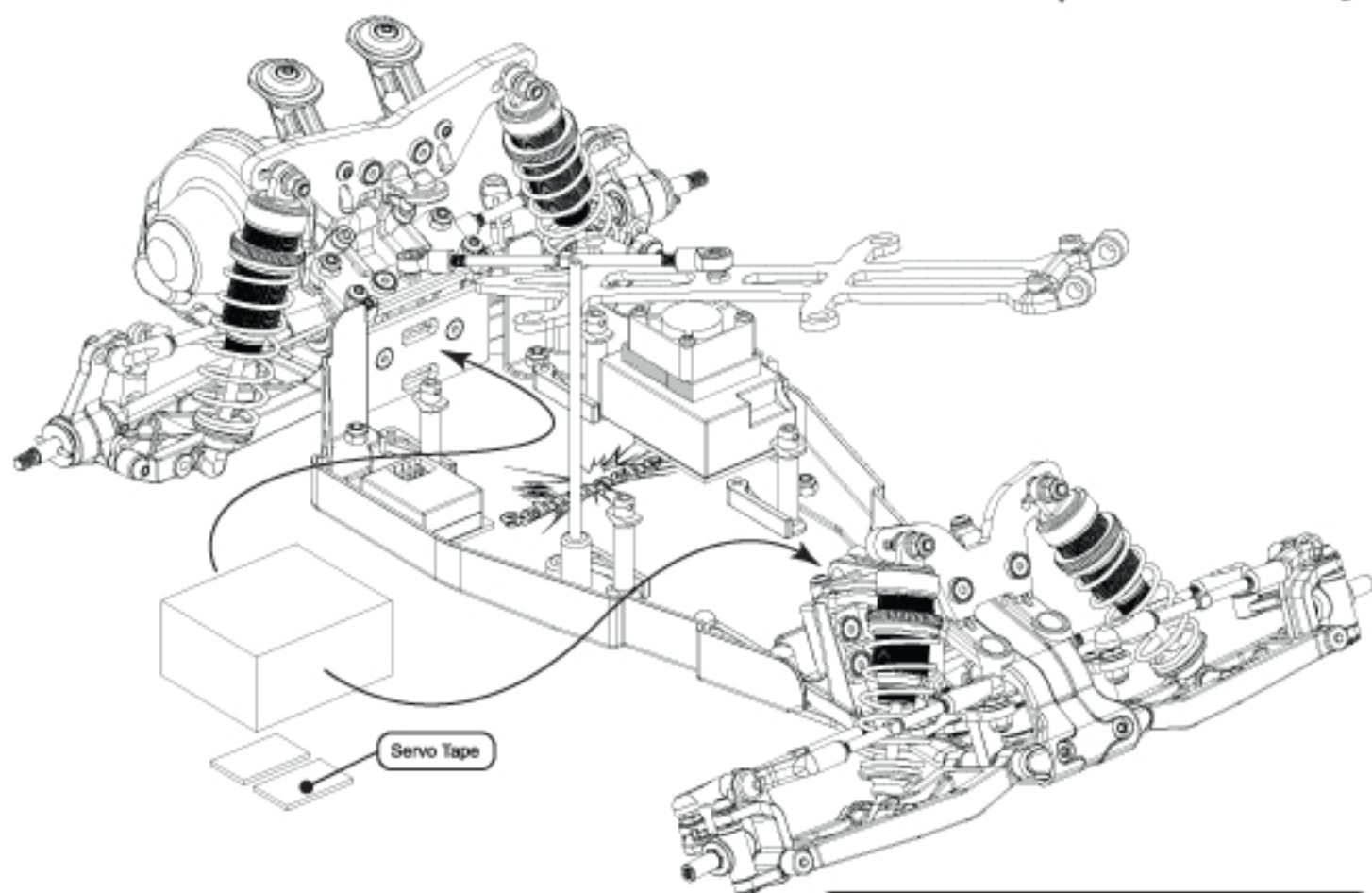




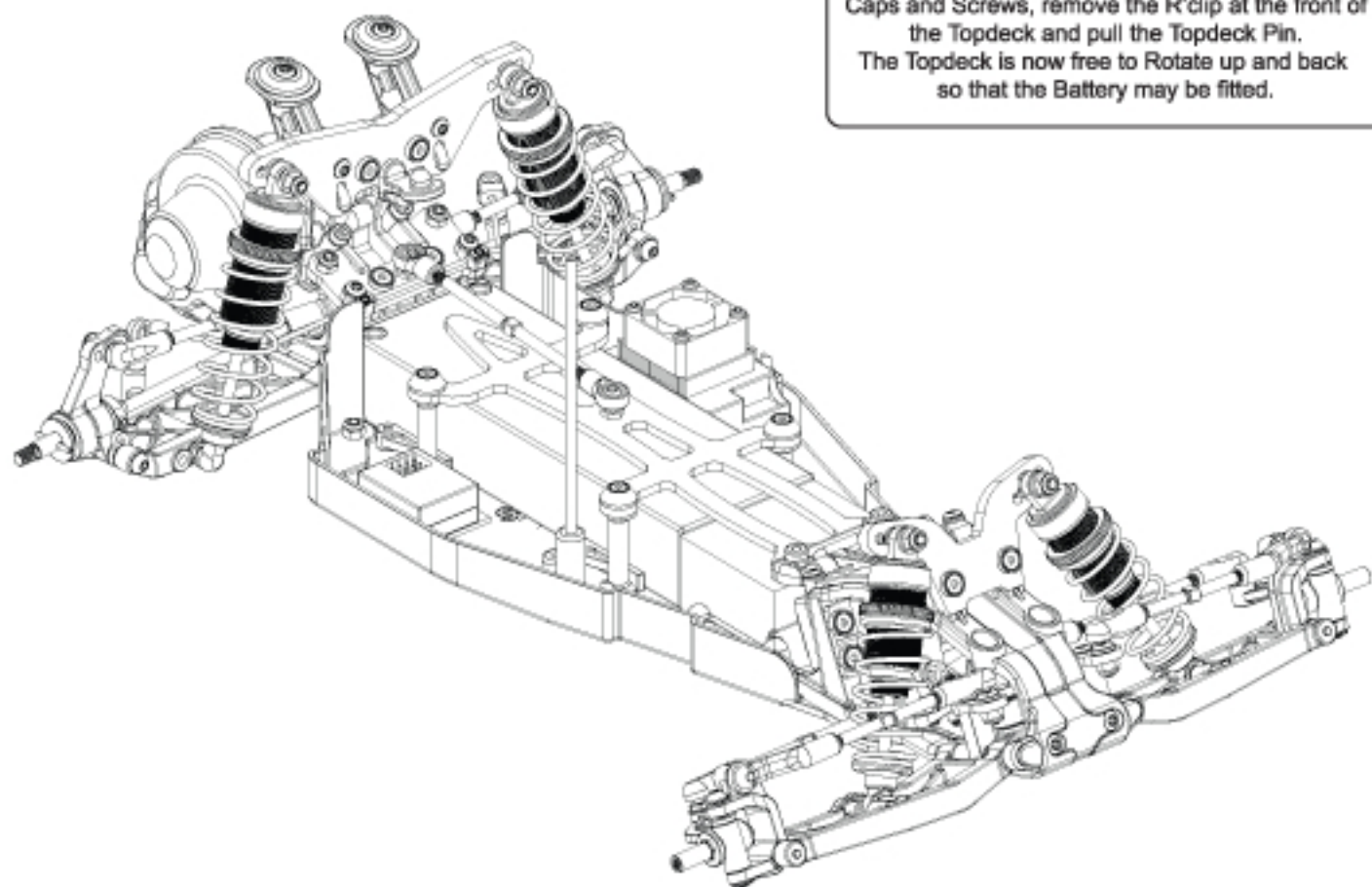
Step 49 A

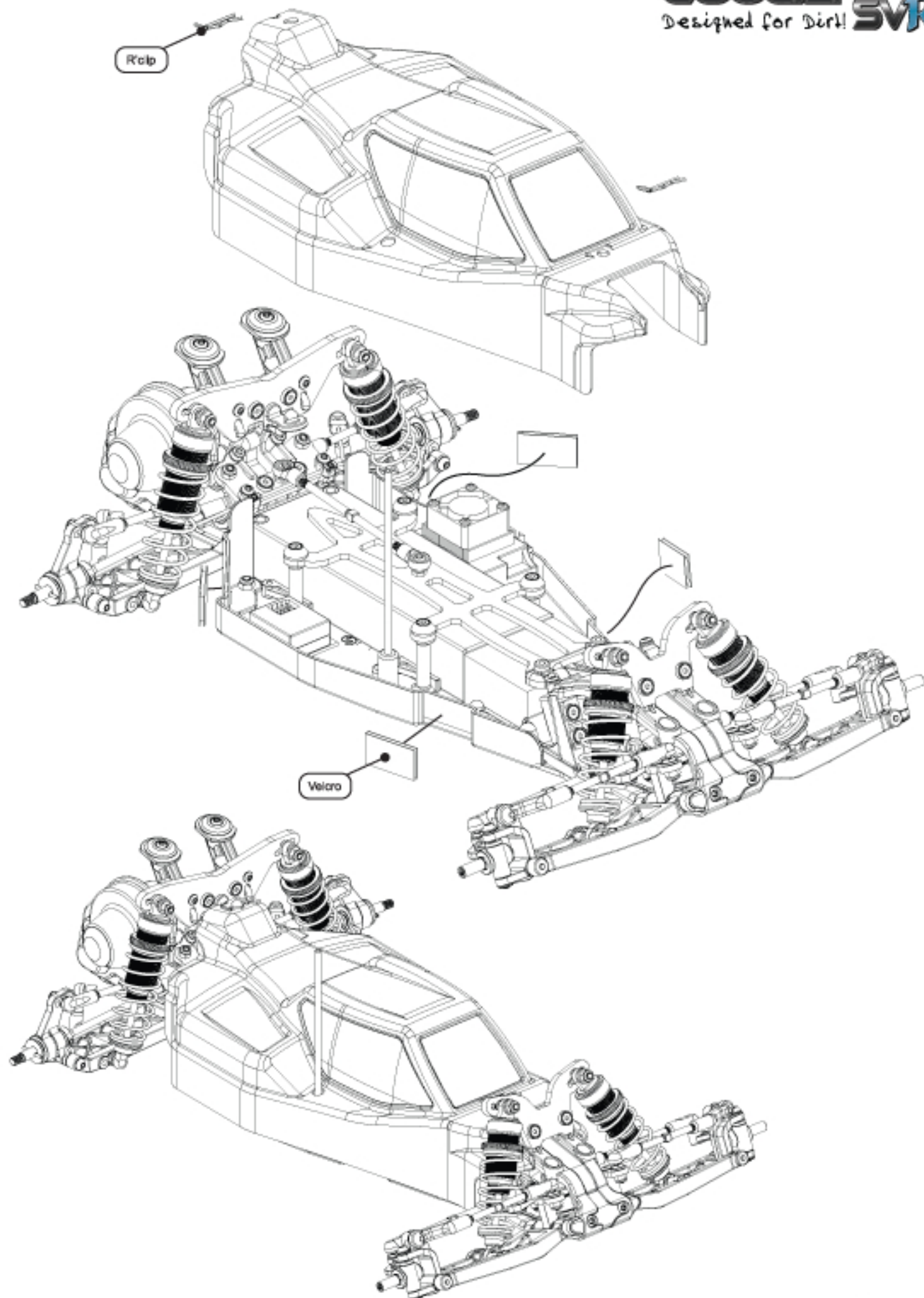




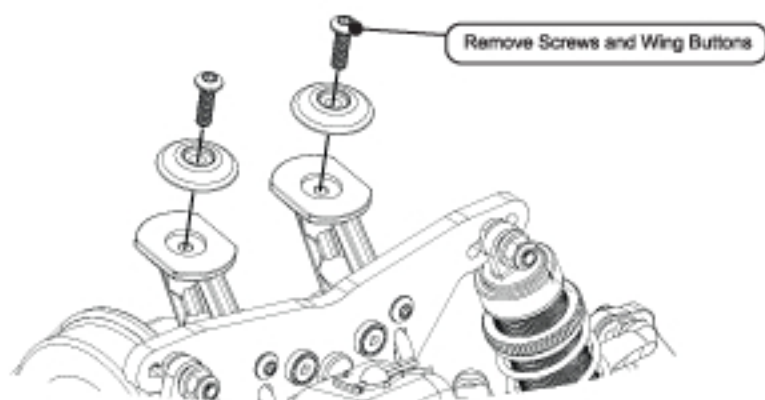


You will need to Pivot the Topdeck out of the way to install your Lipo Spacer and Lipo's, to do this remove the Four Topdeck Caps and Screws, remove the R'clip at the front of the Topdeck and pull the Topdeck Pin. The Topdeck is now free to Rotate up and back so that the Battery may be fitted.

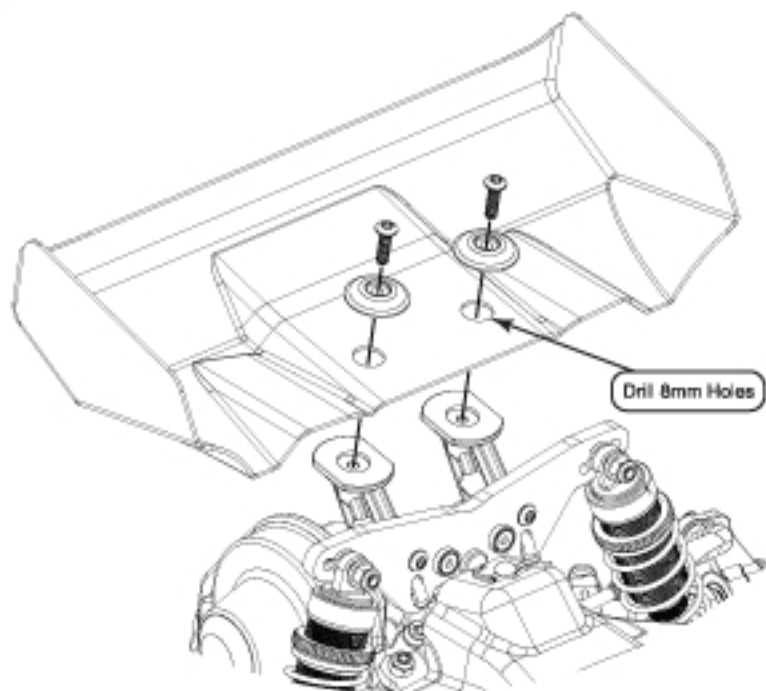




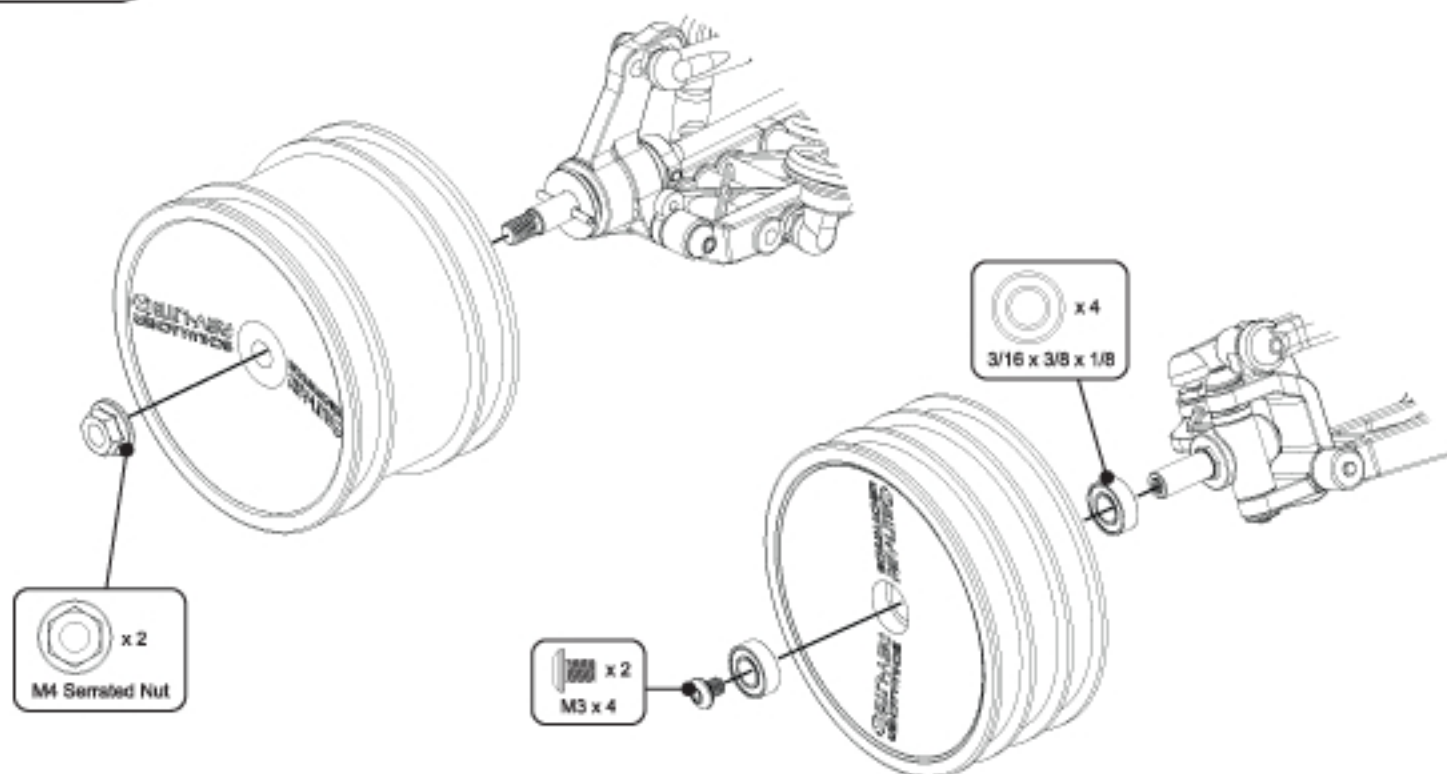
Step 51 A

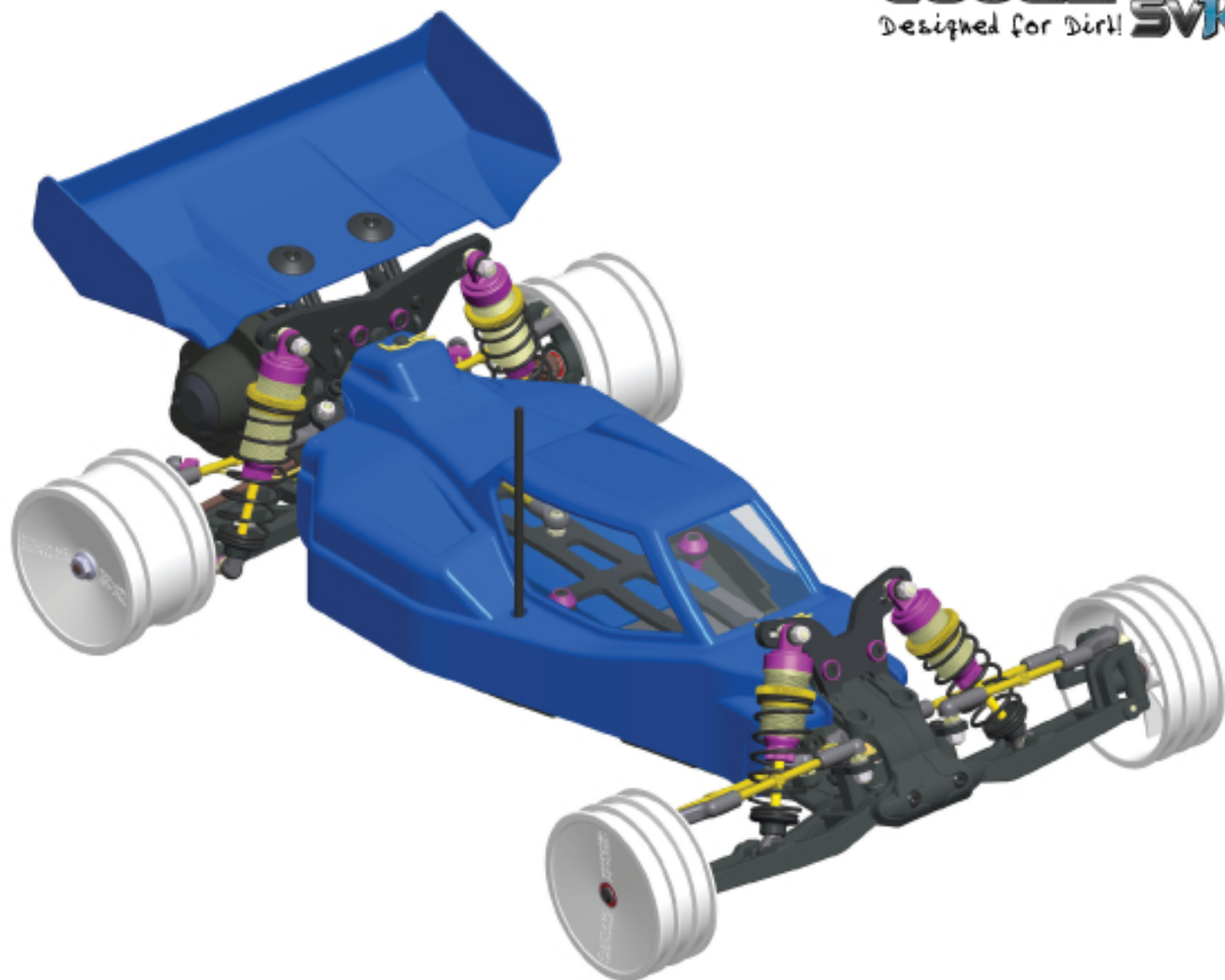


Step 51 B



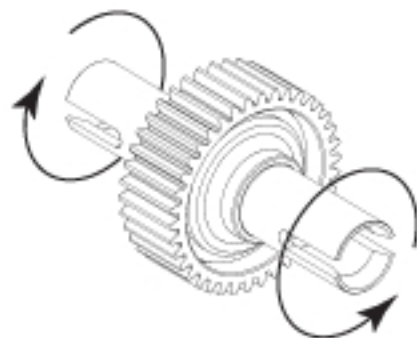
Step 52





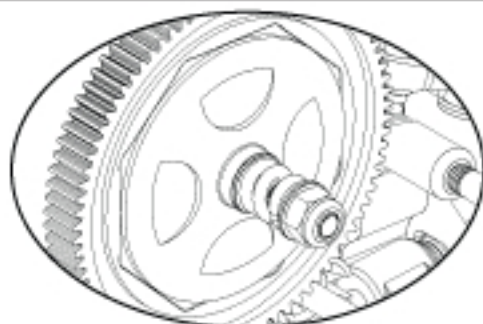
Differential

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



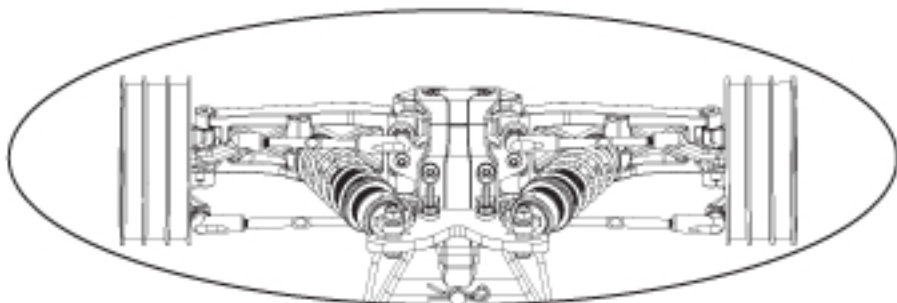
Slipper Clutch

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



Front Toe In

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



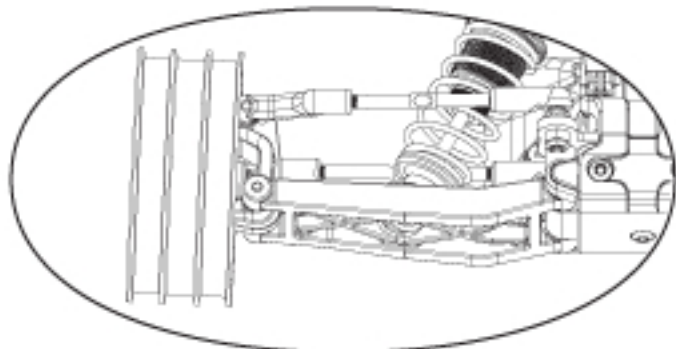
Front Wishbone Shock Mounting Hole

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



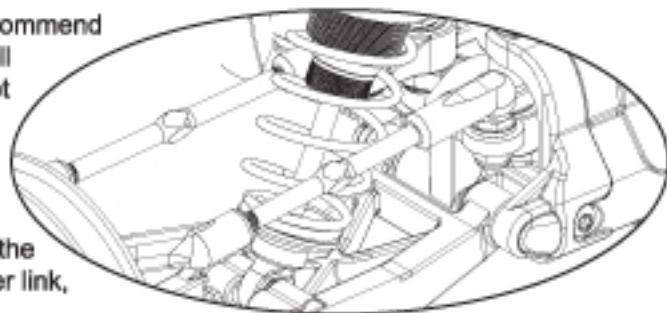
Front Camber

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



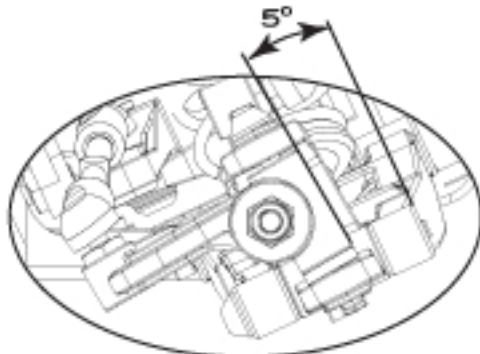
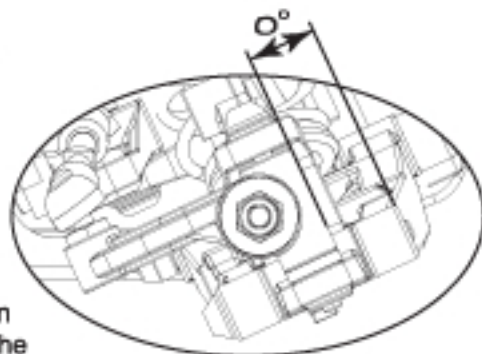
Front Camber Links

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



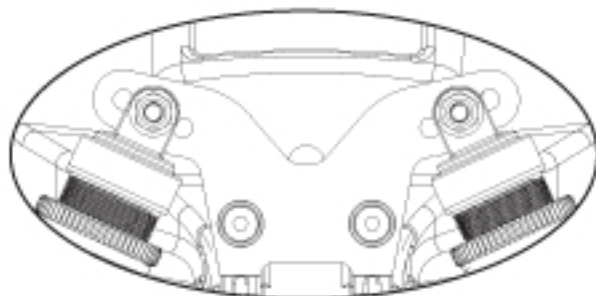
Front Yoke

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



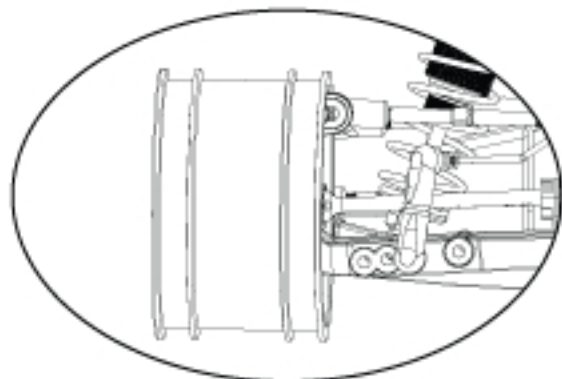
Front Shock Mount

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



Rear Camber

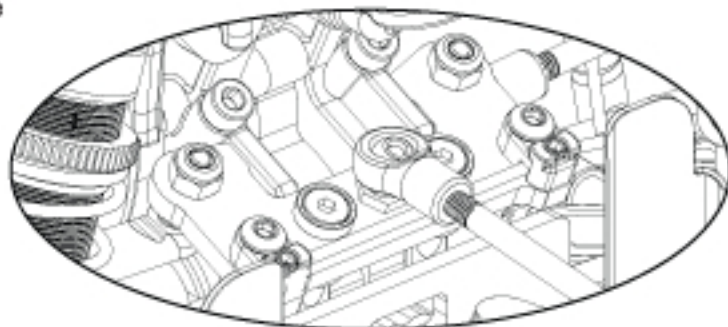
The usual team setting for static rear camber is 1° negative at ride height (the top of the tyre leaning inwards towards the car). Increasing the static rear camber will increase the traction when exiting the turns, but will be less stable at high speed. Decreasing the camber will reduce stability and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



Rear Camber Links

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

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



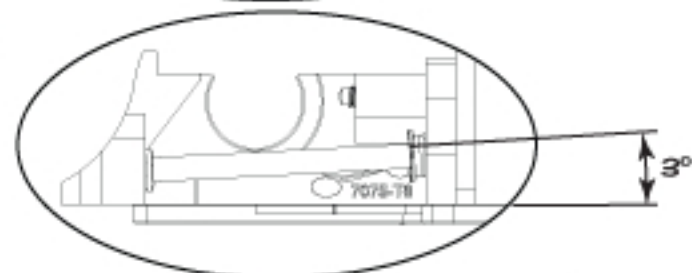
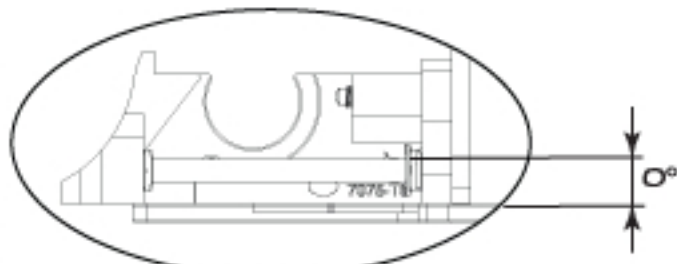
Rear Anti Squat

The standard anti squat is 3° . And with optional parts this can be adjusted to 2° , 1° or 0° .

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

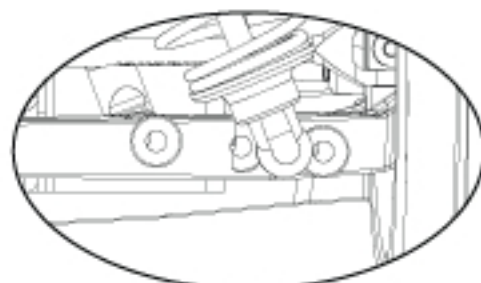


The Bumps underneath indicate how much Anti-Squat you are running, three bumps = 3°



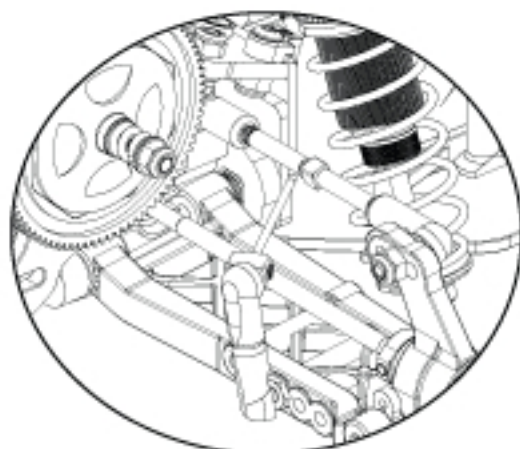
Rear Wishbone Shock mounting Hole

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



Anti Roll Bar

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



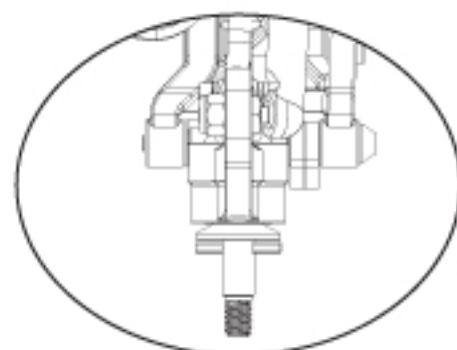
Rear Toe In

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

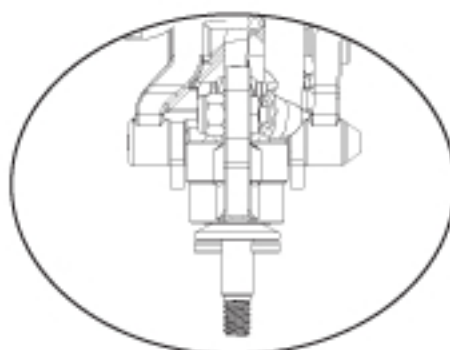
The Bumps on Top indicate how much Rear Toe-in you are running.
 Three bumps = 3°



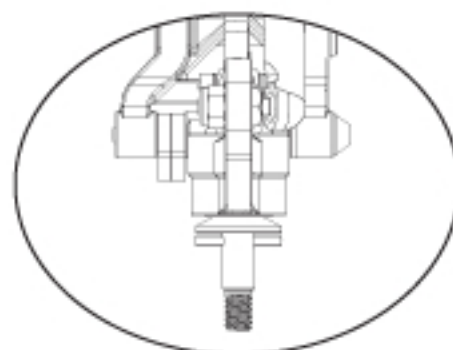
Wheelbase Options



Long
Wheelbase



Med
Wheelbase

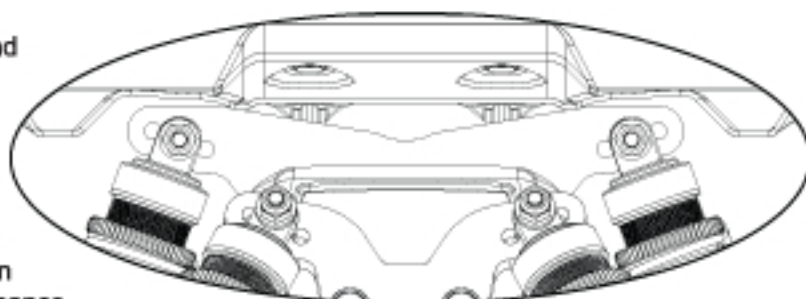


Short
Wheelbase

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

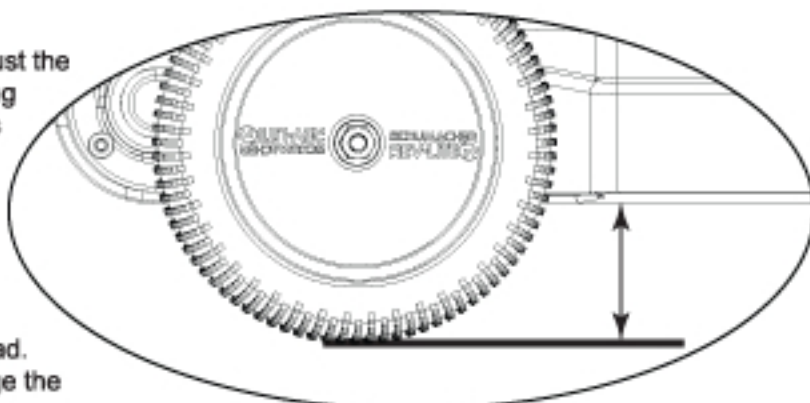
Rear Shock Mount

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



Ride height

Use the spring adjusters on the shock absorbers to adjust the front and rear ride heights. We would recommend setting the ride height to around 20 mm with the car level. This is measured between the bottom of the chassis and the ground with the car in running trim. First press the car down on to the ground and release it once or twice to settle the suspension before adjusting the ride height. The chassis should be level when viewed from the side. Adjusting the spring collars does not increase or decrease the spring stiffness only the preload. So if the suspension needs to be softer or harder change the spring.



Gear Ratio Chart

The Two Internal Gears in the Transmission are 15Tooth Layshaft Gear and 38 Tooth Differential Gear.
 This makes the internal Gear ratio 2.53:1

The Below chart is the overall Ratios including the Spur Gear and Pinion Options.
 The Maximum Tooth Sum Available is 112 teeth, the minimum is 98 teeth.

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

U3414 Pinion; Hard Alloy 48dp - 14T
 U3415 Pinion; Hard Alloy 48dp - 15T
 U3416 Pinion; Hard Alloy 48dp - 16T
 U3417 Pinion; Hard Alloy 48dp - 17T
 U3418 Pinion; Hard Alloy 48dp - 18T
 U3419 Pinion; Hard Alloy 48dp - 19T
 U3420 Pinion; Hard Alloy 48dp - 20T
 U3421 Pinion; Hard Alloy 48dp - 21T
 U3422 Pinion; Hard Alloy 48dp - 22T
 U3423 Pinion; Hard Alloy 48dp - 23T
 U3424 Pinion; Hard Alloy 48dp - 24T
 U3425 Pinion; Hard Alloy 48dp - 25T
 U3426 Pinion; Hard Alloy 48dp - 26T
 U3427 Pinion; Hard Alloy 48dp - 27T
 U3428 Pinion; Hard Alloy 48dp - 28T
 U3429 Pinion; Hard Alloy 48dp - 29T
 U3430 Pinion; Hard Alloy 48dp - 30T
 U3431 Pinion; Hard Alloy 48dp - 31T
 U3432 Pinion; Hard Alloy 48dp - 32T

U2305 16T Steel Pinion - 48 D.P.
 U2306 17T Steel Pinion - 48 D.P.
 U2307 18T Steel Pinion - 48 D.P.
 U2308 19T Steel Pinion - 48 D.P.
 U2309 20T Steel Pinion - 48 D.P.
 U2310 21T Steel Pinion - 48 D.P.
 U2311 22T Steel Pinion - 48 D.P.
 U2312 23T Steel Pinion - 48 D.P.
 U2313 24T Steel Pinion - 48 D.P.
 U2314 25T Steel Pinion - 48 D.P.
 U2315 26T Steel Pinion - 48 D.P.
 U2316 27T Steel Pinion - 48 D.P.
 U2318 29T Steel Pinion - 48 D.P.

U3348 Gear; CNC 80t Spur - Slipper
 U3349 Gear; CNC 81t Spur - Slipper
 U3350 Gear; CNC 82t Spur - Slipper
 U3351 Gear; CNC 83t Spur - Slipper
 U3790 Gear; CNC 76T Spur - Slipper





U1954
Thrust Bearing
F3x8G Super PRO



U4080 Carbon Fibre Rear Strap - 3"
U4081 Carbon Fibre Rear Strap - 0"
U4096 Carbon Fibre Rear Strap - 1"
U4097 Carbon Fibre Rear Strap - 2"



G876
Spec-R Gear Differential - SVR



U3929
Alloy Steering Yokes
7.5 degree



U3758
Steering Yokes 5 degree



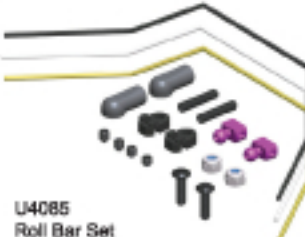
M4 Nyloc Wheel Nuts
U2135 - Purple
U2811 - Blue
U2813 - Gold



U3605
CNC Alloy Rear Hubs
1 degree (pair)



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



U4085
Roll Bar Set



U3934
Alloy Zero Trail Hub Carrier



U1300
Axle Grease
The best general grease for many applications.



U1301
Silicone Diff Lube
The best lube for ball diffs!




U1957
Moly Grease
The ultimate thrust race grease!



S500B - Team Schumacher Banner 3ft x 6ft
G315 Schumacher Team Pillow Towel



U3782
HD Shock Diaphragms



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



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



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



U3611
CNC Alloy Spring Seal (pair)



Medium Flex Wishbones
U4068 - Front Long (pair)
U4054 - Rear (pair)



U2856
Sticky Cable Clips
Pack of 10



G200
ZX1 ExtraLube
The Ultimate Friction Eliminator.



U3998
Carbon Fibre Link Mount
Options Front & Rear (Set 6)



Schumacher 3 Layer Soft Shell Team Jacket
G339XS - Extra Small - 34" Chest
G339S - Small - 38" Chest
G339M - Medium - 41" Chest
G339L - Large - 44" Chest
G339XL - Extra Large - 46" Chest
G339XXL - Double Extra Large - 48" Chest
G339XXXL - Triple Extra Large - 50" Chest



Team Cap "Flexi-Fit"
G334 - Medium - 58cm
G335 - Large - 62cm



G338 Team 2 Tone Beanie Knitted Hat



Team Hooded Sweat Shirt
G336S - Small
G336M - Medium
G336L - Large
G336XL - Extra Large
G336XXL - Double Extra Large



Team "T" Shirt Blue
G331S - Blue Small Man
G331M - Blue Medium
G331L - Blue Large
G331XL - Blue Extra Large
G331XXL - Blue XX Large
G331XXXL - Blue XXX Large
G331XXXXL - Blue XXXX Large

2WD Slim Cut Stagger



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

2WD Low Profile Slim Cut Stagger



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

2WD Slim Mini Spike 2



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

2WD Slim Mini Pin



U6609 - Yellow Compound (pair)

2.2" Rear Full Spike



U6596 - Yellow Compound (pair)

Front Mini Spike 2



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

4WD Front Mini Pin



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

Pre-Glued

Cut Stagger on Flexlite Wheels.
U6760 - Slim 2wd Front - Yellow

Mini Pin on Flexlite Wheels.
U6742 - Rear - Yellow
U6755 - Slim 2wd Front - Yellow

Mini Spike 2 on Flexlite Wheels.
U6740 - Rear - Yellow
U6753 - Slim 2wd Front - Yellow

Rear Mini Spike 2



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

Rear Mini Pin



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

Wheels

U4101 - Wheel; 2WD/4WD Rear - Flexlite White
U4103 - Wheel; 2WD Front Std - Flexlite White
U4104 - Wheel; 2WD Front Slim - Flexlite White
U3406 - Wheel; Rear Fluro Yellow - 2WD/4WD
U3765 - Wheel; Med Front Fluro Yellow - 2WD
U3767 - Wheels; Slim Front Fluro Yellow - 2WD



Off-Road Foam Inserts

U6541 - WHITE Foam Tyre insert; Soft - Truck (pr)
U6652 - GREY Foam Tyre insert; Hard - Front - CAT (pr)
U6653 - GREY Foam Tyre insert; Hard - Rear - CAT (pr)
U6667 - GREY Foam Tyre insert; Hard - Slim 2WD (pr)
U6668 - WHITE Foam Tyre inserts; Soft - Ultra Wide (pr)
U6669 - GREY Foam Tyre inserts; Hard - Ultra Wide (pr)
U6733 - BLUE Foam Tyre insert; Med - Front - CAT (pr)
U6734 - BLUE Foam Tyre insert; Med - Rear - CAT (pr)
U6746 - BLUE Tubby insert; Med Front - CAT (pr)
U6747 - BLUE Tubby insert; Med Rear - CAT (pr)
U6738 - BLUE Foam Tyre insert; Med - Slim 2WD (pr)

