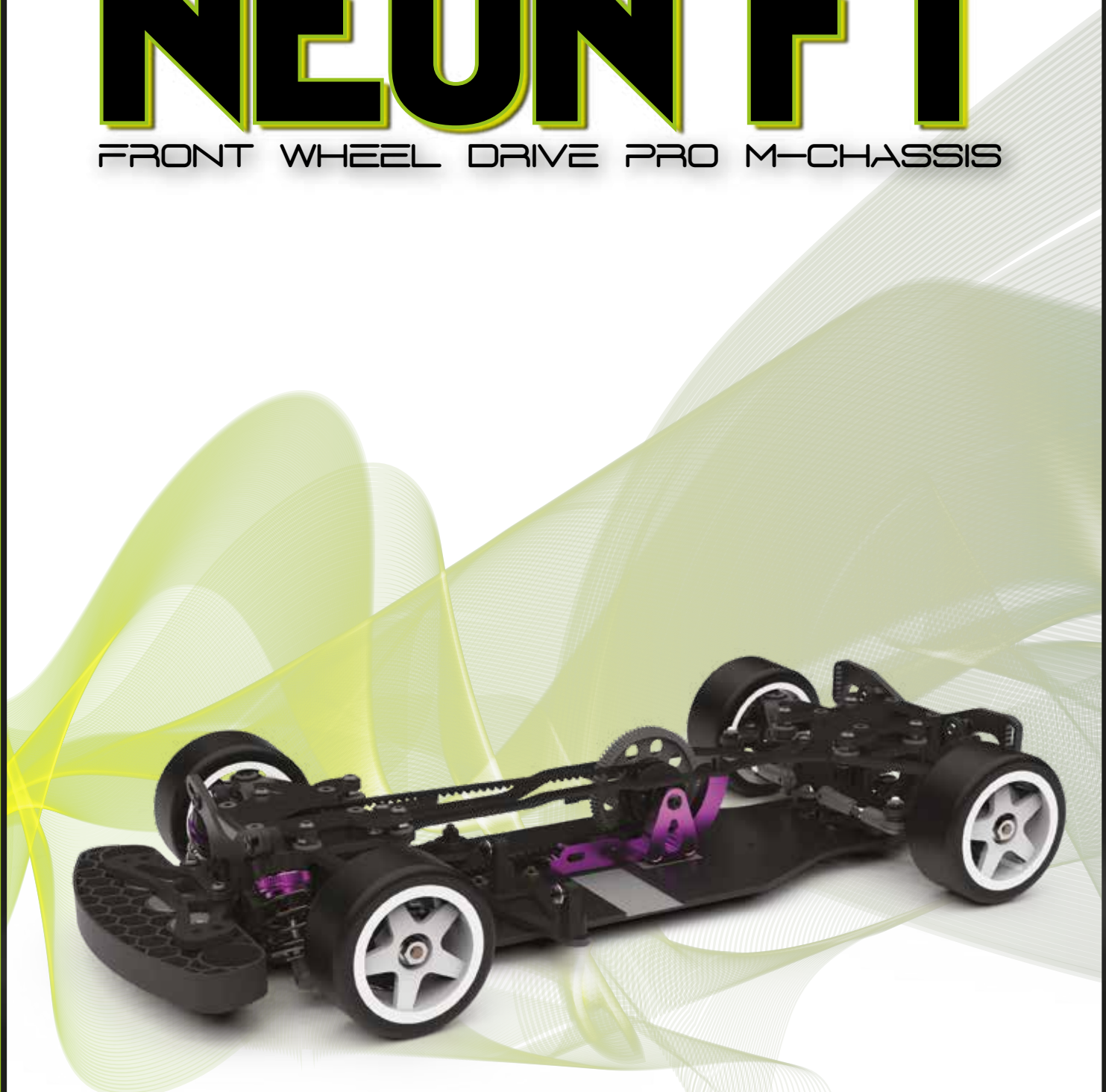
S1852

NEON FT

FRONT WHEEL DRIVE PRO M-CHASSIS



Instruction Manual ISS01

www.racing-cars.com

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

NEON FT

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
- 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.

ADDITIONAL ITEMS REQUIRED

2S Shorty LiPo Battery

Motor and Pinion Gear

Electronic Speed Controller

Battery Charger

Radio Equipment

Steering Servo

Tyre/CA Glue

Bodyshell

Polycarbonate Paint

Tyres and Inserts

RECOMMENDED TOOLS REQUIRED

1.5mm Hex Driver - U2789

2.0mm Hex Driver - U2790

5.5mm M3 Nut Driver - U2795

7.0mm M4 Nut Driver - U2796

Body Reamer - AX117

Pliers - CR528

Side Cutters - CR527

Soldering Iron - CR275

Solder - U3107

Curved Scissors - CR044

ICON KEYS

MOLY GREASE — CORE RC Molybdenum Grease 10ml - CR755.

THREAD LOCK BLUE — CORE RC Medium Strength Thread Lock 3ml - CR520.

SILICONE OIL cSt — Silicone oil, various cSt.

Important note. Please read.

Caution note. Please read.

FL — Front Left of car.

FR — Front Right of car.

RL — Rear Left of car.

RR — Rear Right of car.

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Front Wishbone

BAG A - Step 1

Ax4
M3x8 Csk Hd Screw

Bx1
M3x10 Cap Hd Screw

Cx2
M3 Thread Insert

Dx4
M2.5x8 Button Hd Screw

Ex2
Ø6x1.0 'O' Ring

Fx4
Ø5x1.0 'O' Ring

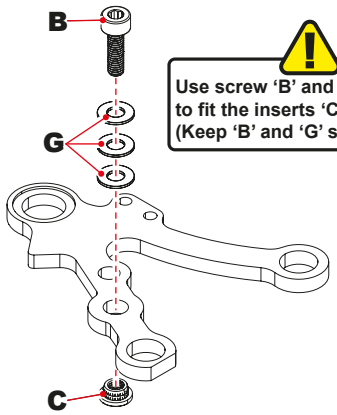
Gx7
M3 Washer

Hx2
Short Ballstud

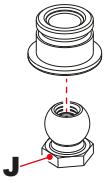
Ix2
M3x8 Grub Screw

Jx4
Pivot Ball

Pre-Fit Inserts



Use screw 'B' and washers 'G' to fit the inserts 'C'.
(Keep 'B' and 'G' safe for later.)

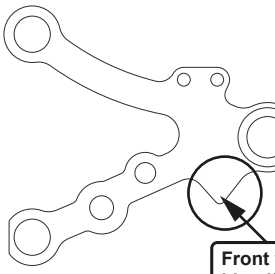


Use pliers or shock pliers to assemble the pivot ball.

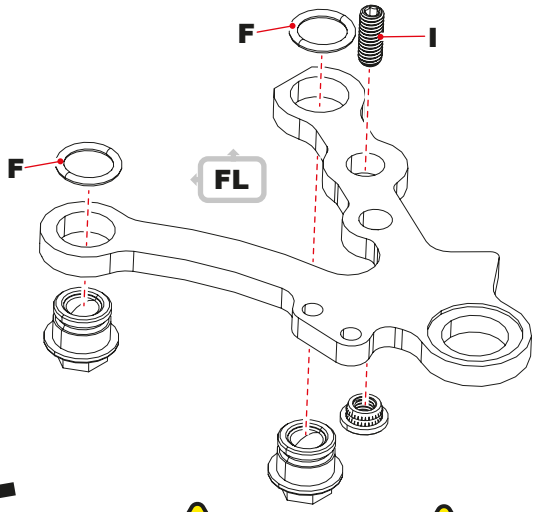
Assemble x4 ball joints for this step.

1

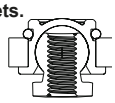
Please build the front right wishbone as a mirror of this build.



Front wishbone is identified by the detail circled.

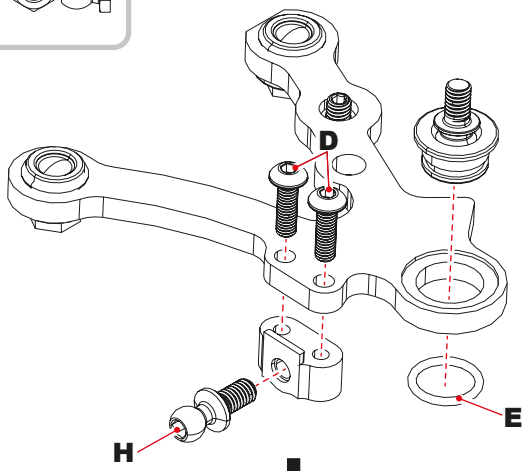


Ensure the 'O' Ring is correctly seated into the groove on the inner sockets.



Ensure the 'O' Ring is correctly seated into the groove on the outer sockets.

2



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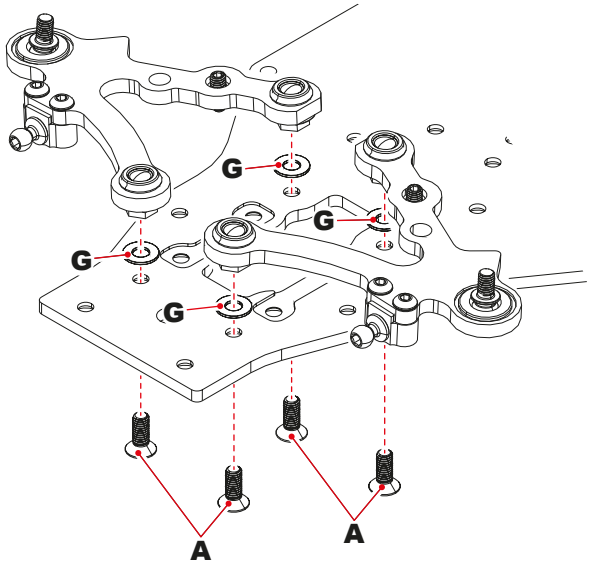

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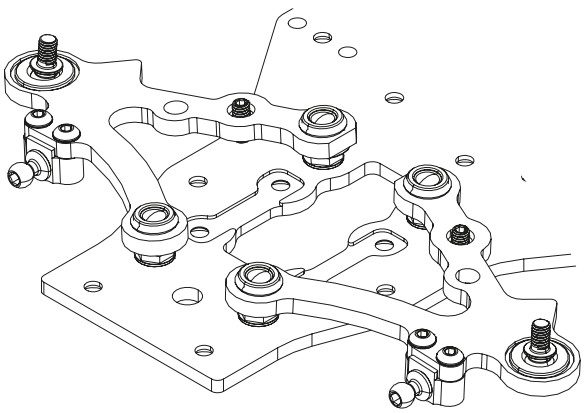


NEON FT

Rear Wishbone

BAG A - Step 2

Ax4
M3x8 Csk Hd Screw

Bx2
M3x8 Grub Screw

Cx2
M3 Thread Insert

Dx4
M2.5x8 Button Hd Screw

Ex2
Ø6x1.0 'O' Ring

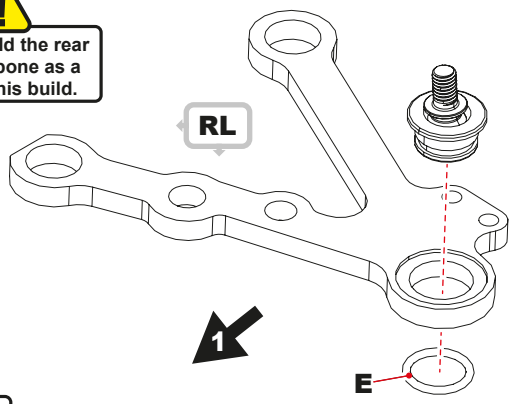
Fx4
Ø5x1.0 'O' Ring

Gx8
M3 Washer

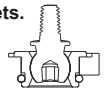
Hx2
Short Ballstud

Ix4
Pivot Ball

Please build the rear right wishbone as a mirror of this build.



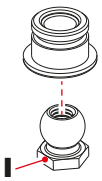
Ensure the 'O' Ring is correctly seated into the groove on the outer sockets.



1

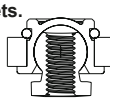
Use pliers or shock pliers to assemble the pivot ball.

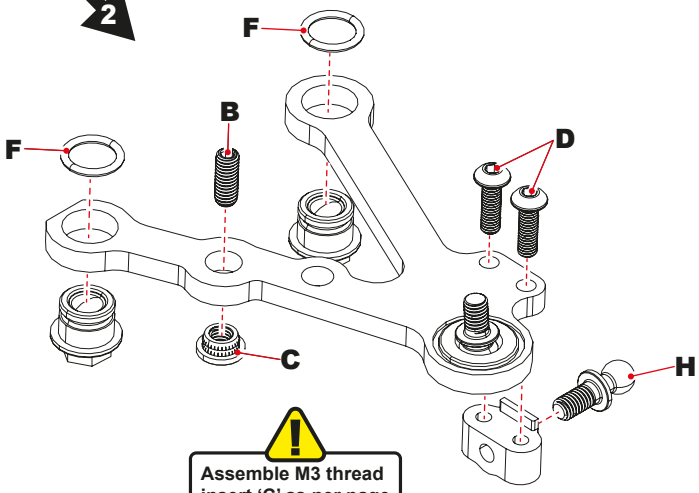
Assemble x4 ball joints for this step.



2

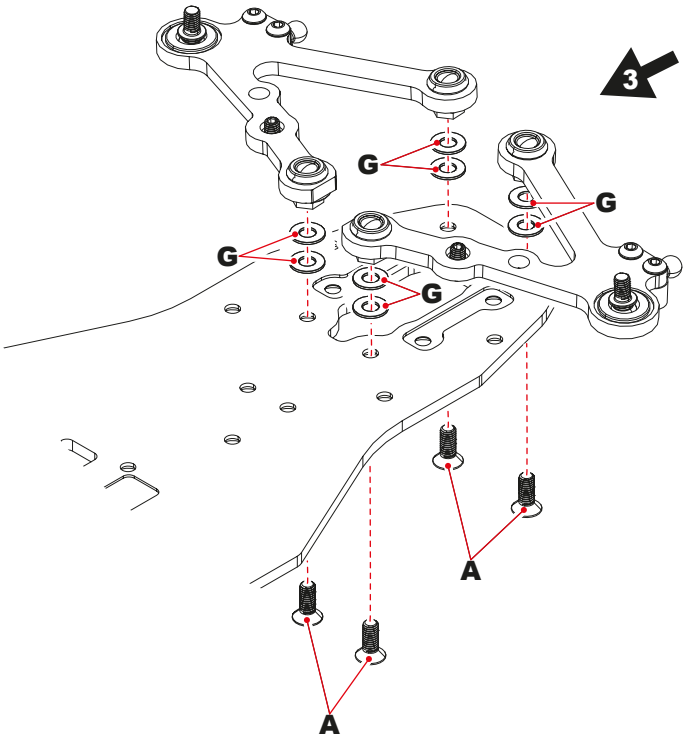
Ensure the 'O' Ring is correctly seated into the groove on the inner sockets.





Assemble M3 thread insert 'C' as per page 2, step 1.

3



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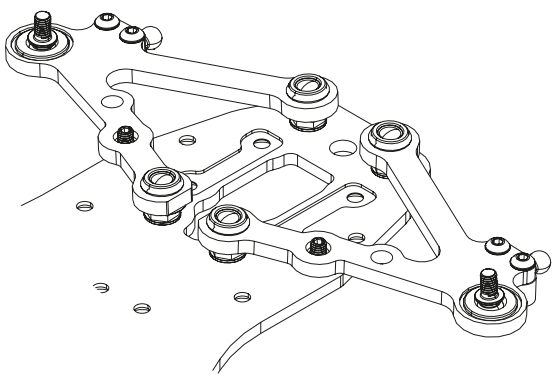

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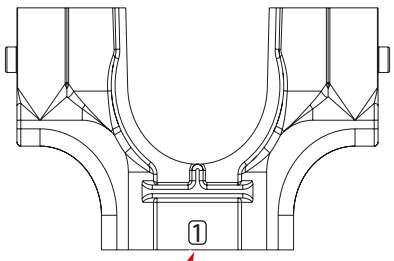
Bulkhead Assembly

BAG A - Step 3

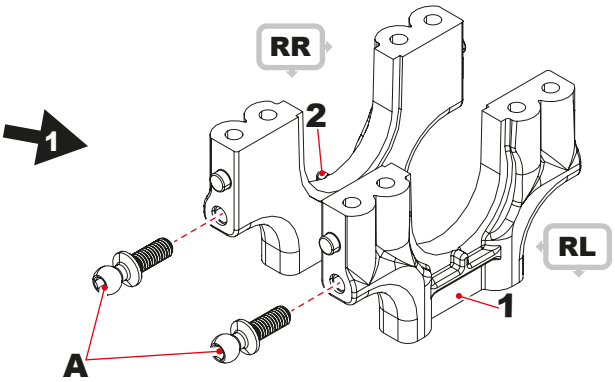
Ax2
Ball Stud Long

Bx8
M3x8 Csk Hd Screw

Cx8
M3x10 Button Hd Screw



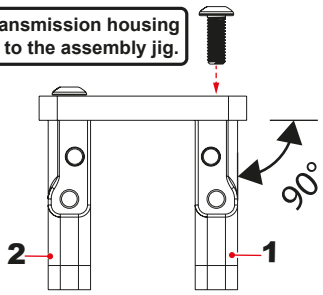
ENSURE the transmission housings labelled '**1**' are on the left hand side. The transmission housings labelled '**2**' must be on the right hand side.



RACE TIP
Throughout the build we recommend the use of moly grease to aid assembly of fasteners into plastic components.

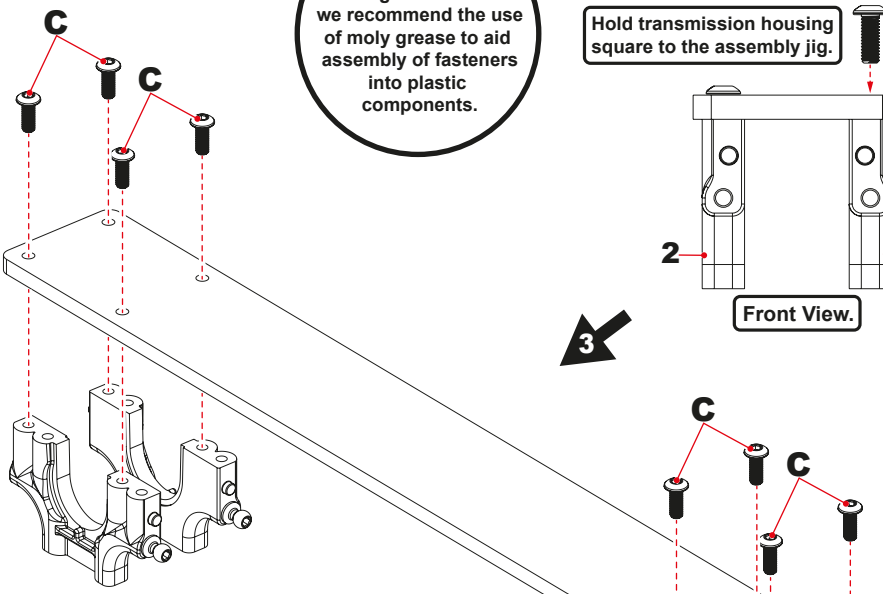
2

Hold transmission housing square to the assembly jig.



Front View.

Screws 'C' must be aligned with the holes in the transmission housing when assembling.



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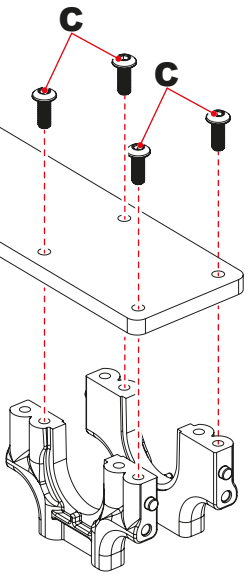

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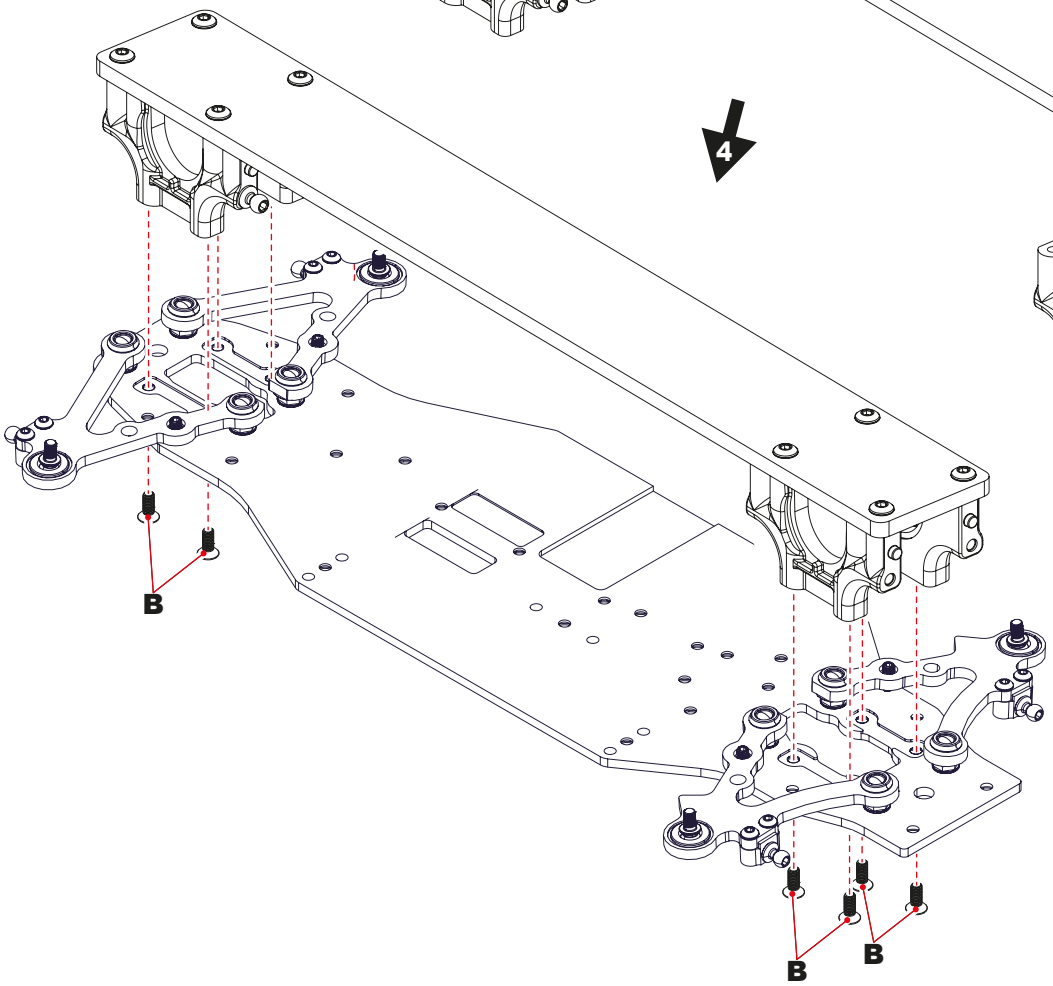

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Motor Mount Assembly

BAG A - Step 4a

Ax1
M3x4 Button Hd Screw

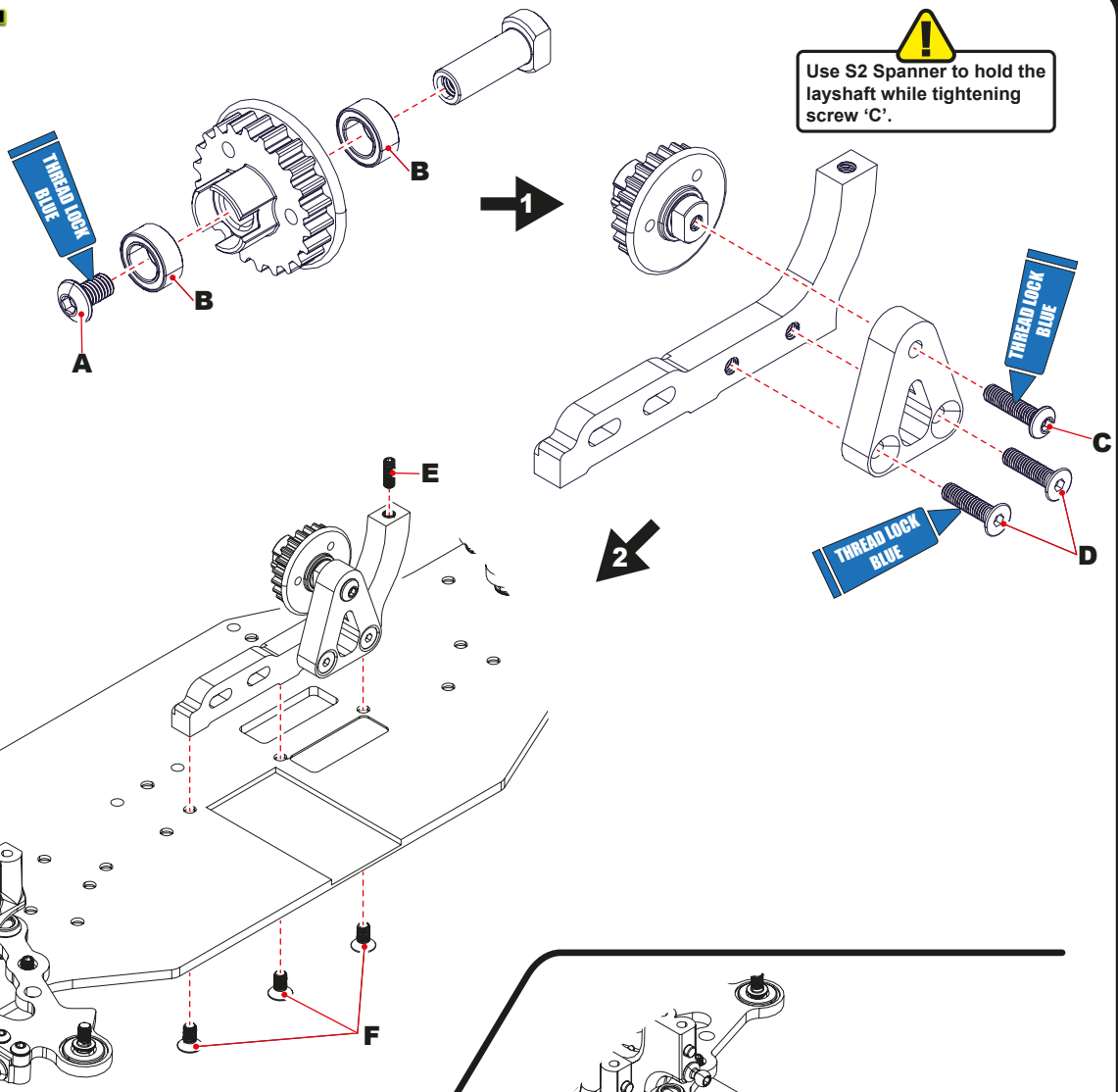
Bx2
Ø3/16 x Ø5/16 x Ø1/8

Cx1
M3x12 Button Hd Screw

Dx2
M3x12 Csk Hd Screw

Ex1
M3x10 Grub Screw

Fx3
M3x 6 Csk Hd Screw



Motor Mount Assembly

BAG A - Step 5

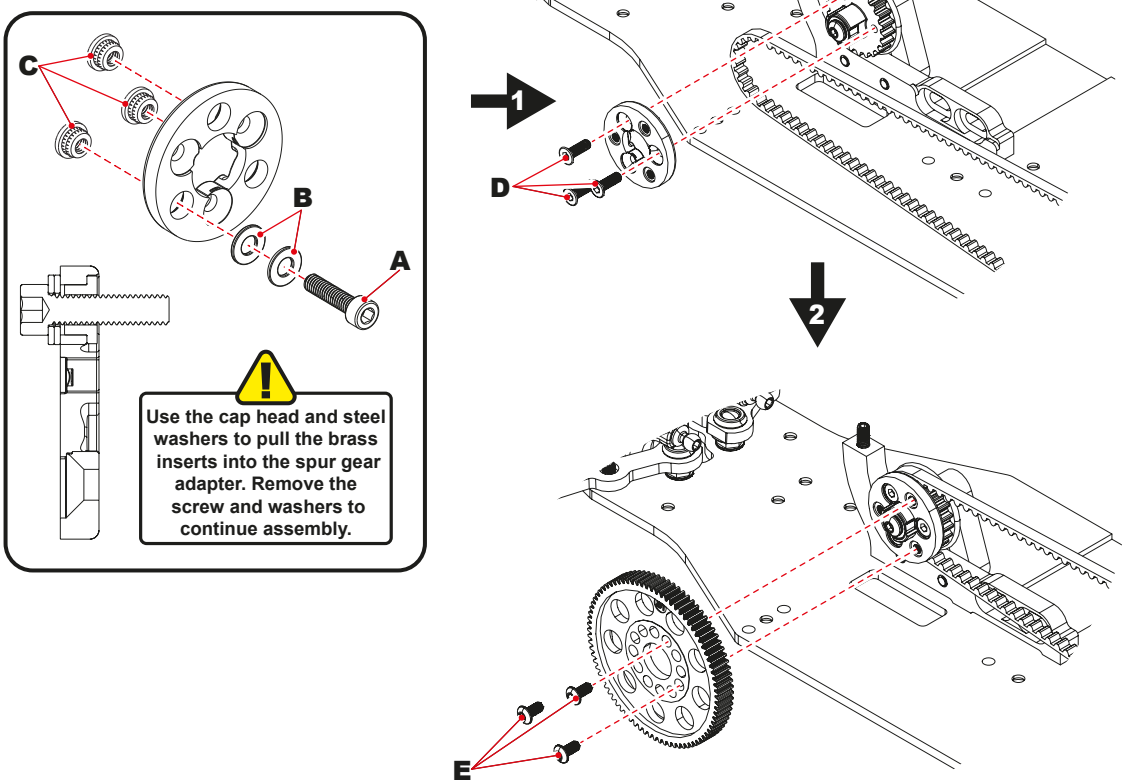
Ax1
M2.5x10 Cap Hd Screw

Bx2
M2.5 Washer

Cx3
M2.5 Thread Insert

Dx3
M2.5x8 Csk Screw

Ex3
M2.5x5 Button Hd Screw



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Differential Assembly

BAG A - Step 6

Ax4

Ø5xØ9.5x0.1 Shim

Bx4

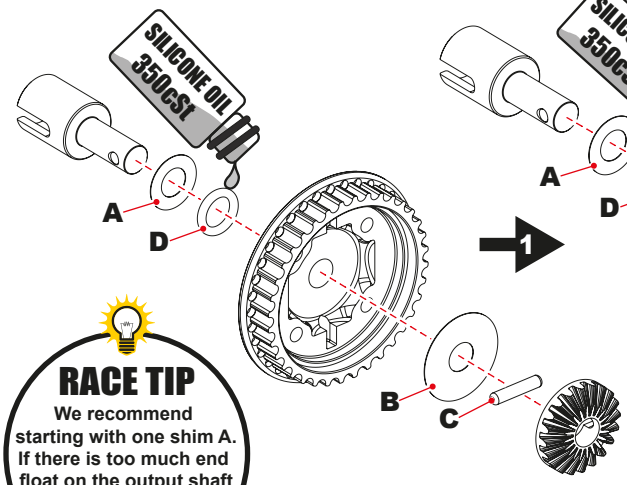
Ø5xØ15x0.1 Shim

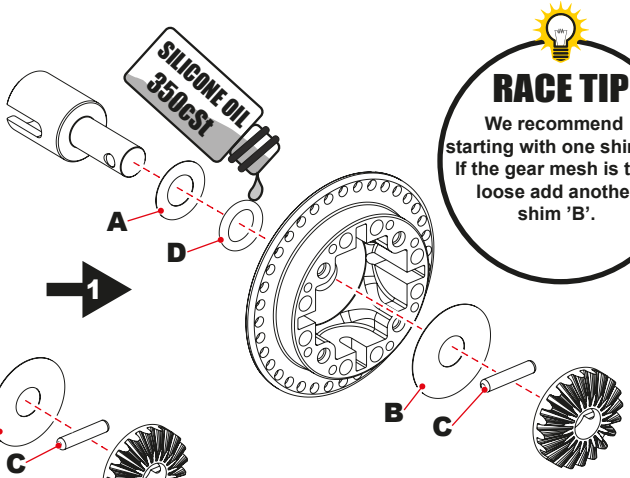
Cx2

Ø2.0x9.8 Pin

Dx2

Ø5x1.5 'O' Ring





RACE TIP

We recommend starting with one shim B. If the gear mesh is too loose add another shim 'B'.

RACE TIP

We recommend starting with one shim A. If there is too much end float on the output shaft add another shim.

Differential Assembly

BAG A - Step 7

Ax4

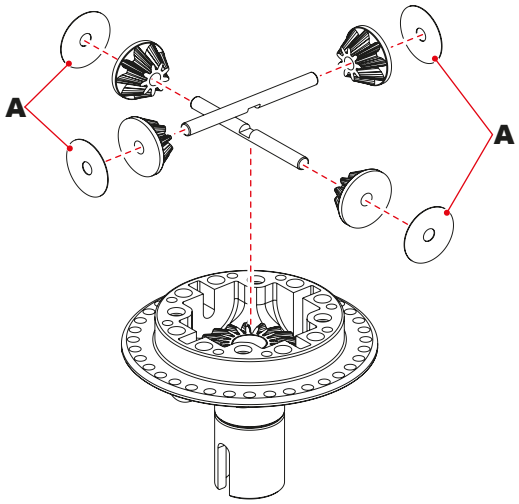
Ø2xØ9x0.1mm Shim

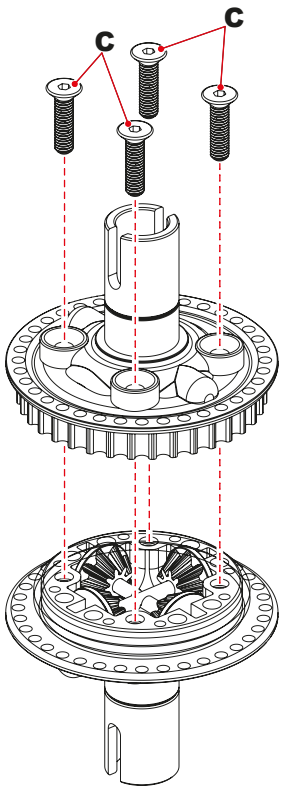
Bx1

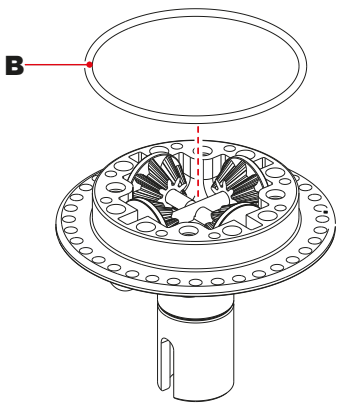
Ø26x1.2 'O' Ring

Cx4

M2.5x10 CSK Screw







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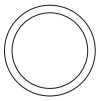
Complete Diff Assembly

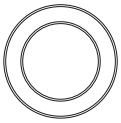
BAG A - Step 8

Ax2

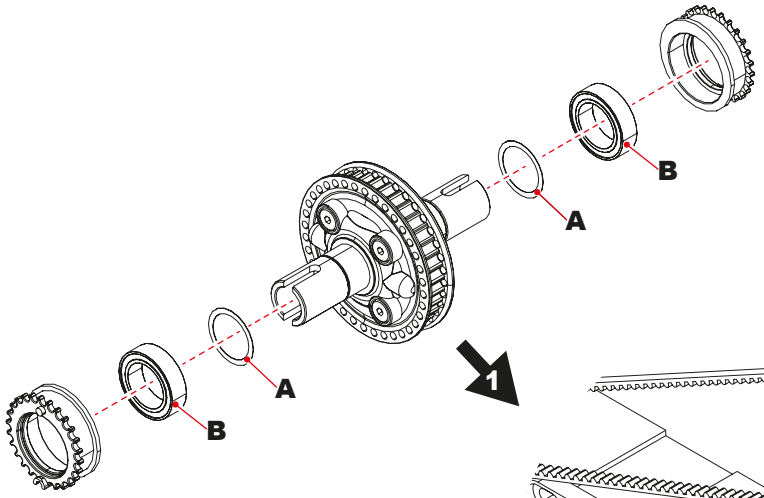


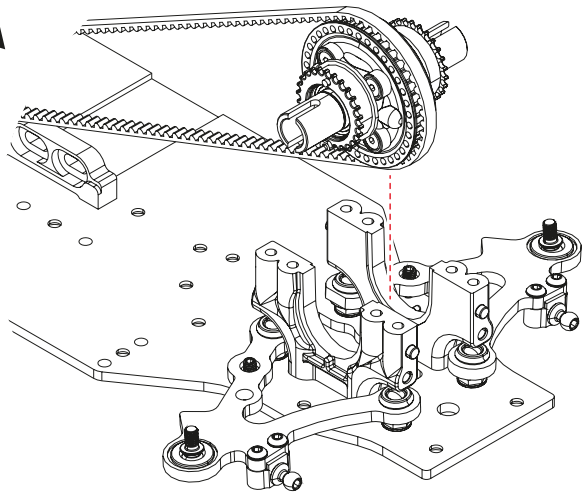
Ø10xØ12.5x0.1 Shim

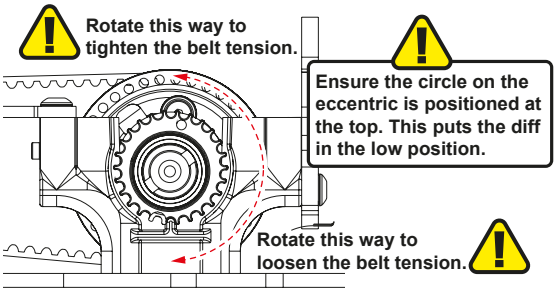
Bx2



Ø10xØ15x4 Bearing







Servo Mount Assembly

BAG B - Step 9a

Ax3

M3 Thread Insert

Bx2

M3x8 Csk Hd Screw

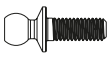
Cx2

M3x8 Button Hd Screw

Dx2

M3 Washer

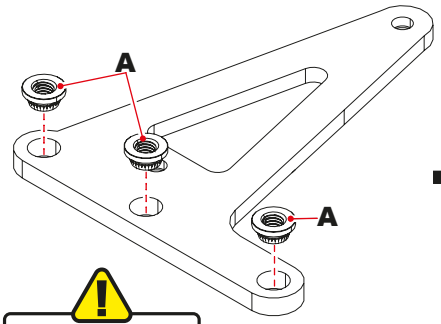
Ex1

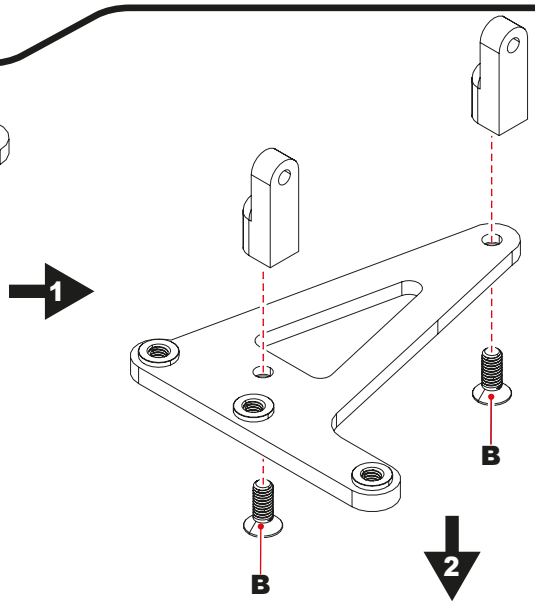


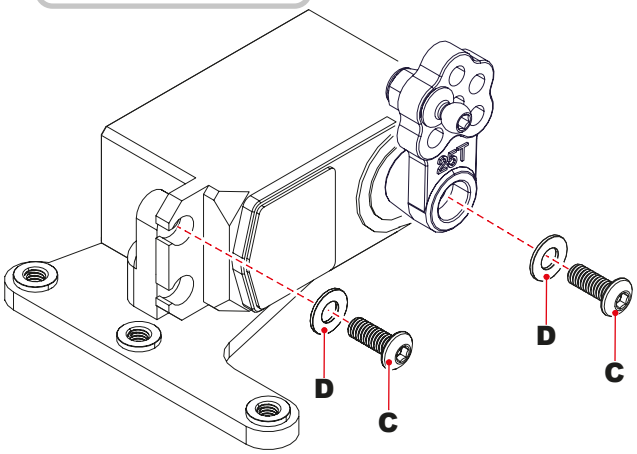
Long Ballstud

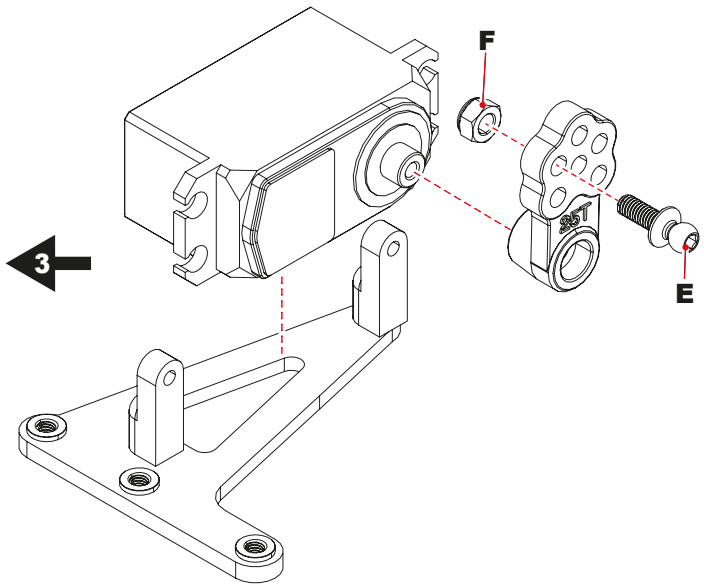
Fx1

M3 Nyloc Nut









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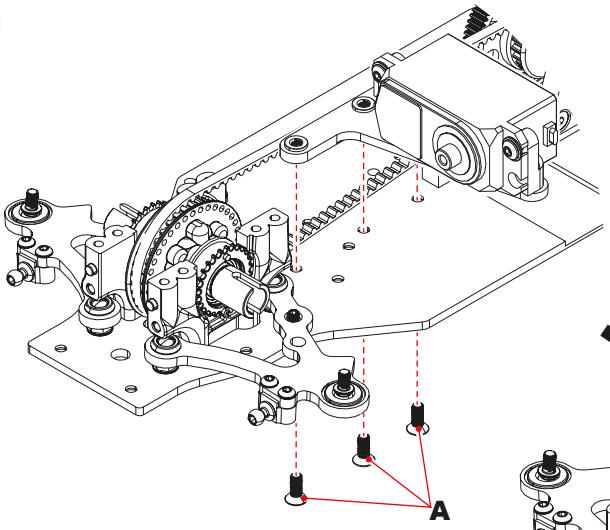
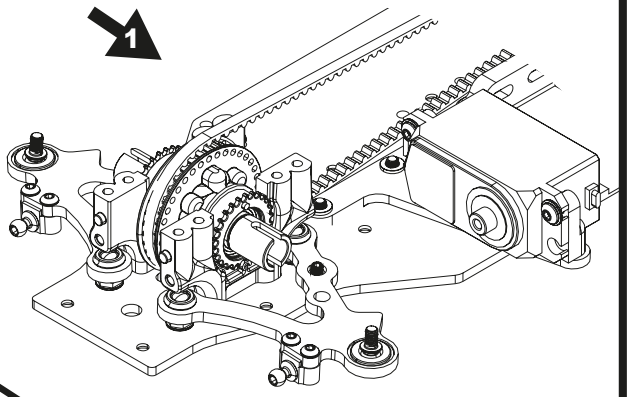
Servo Mount Install

BAG B - Step 9b

Ax3

M3x8 Csk Hd Screw





Radius Mount

BAG B - Step 10a

Ax3

M3x16 Csk Hd Screw

Bx2

M3 Thread Insert

Cx2

Ultra Short Ball Stud (Low)

Dx1

Long Ball Stud (Low)

Ex1

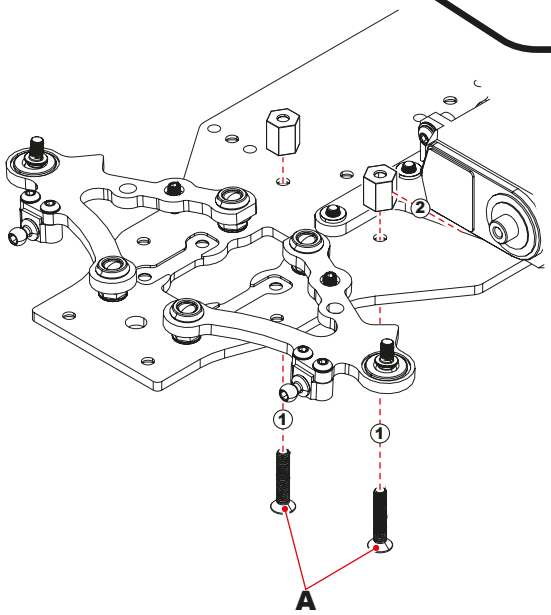
M3 Alloy Nyloc Nut

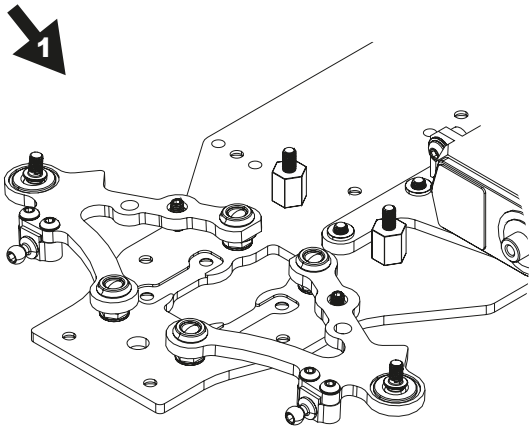
Fx2

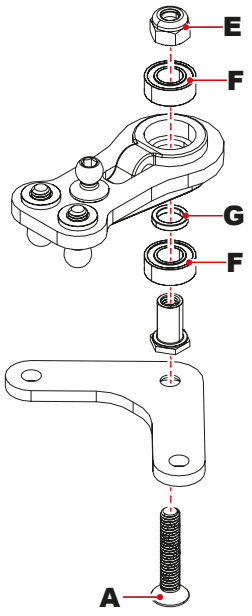
Ø4xØ8x3 Bearing

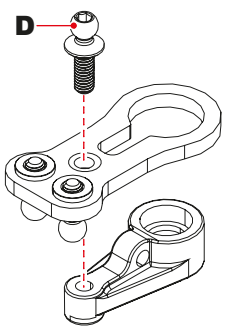
Gx1

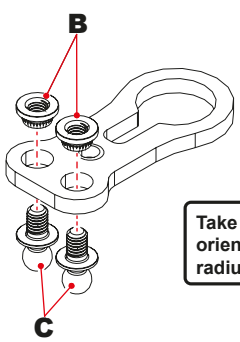
Steering Spacer











Take note of the orientation of the radius arm.

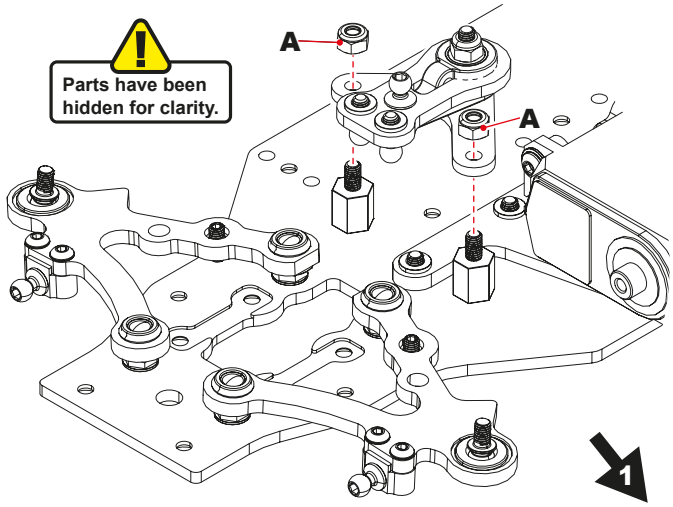
NEON FT

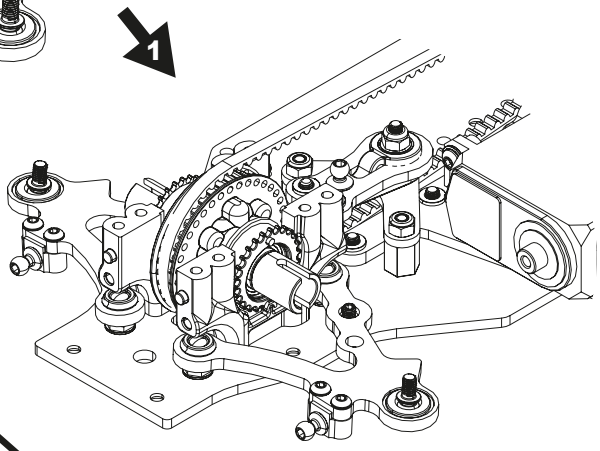
Radius Mount Completion

BAG B - Step 10b

Ax2

M3 Steel Nyloc Nut

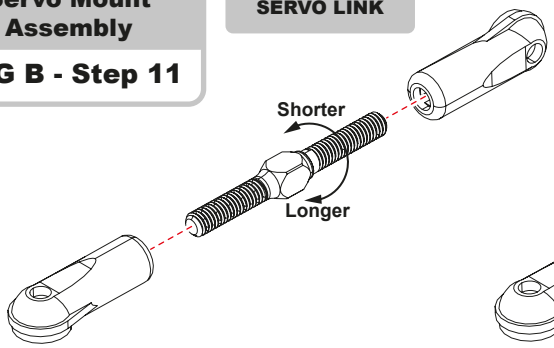


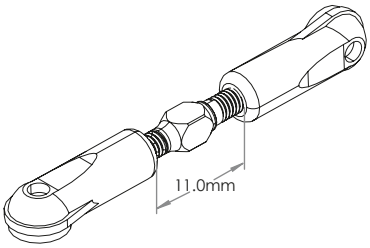


Servo Mount Assembly

BAG B - Step 11

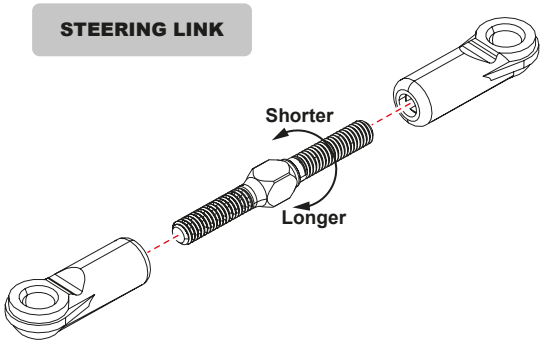
SERVO LINK

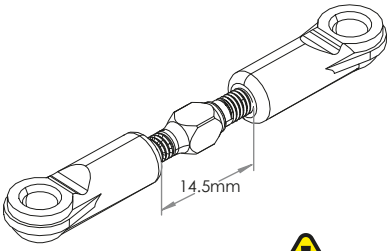




Servo Link (30mm)

STEERING LINK

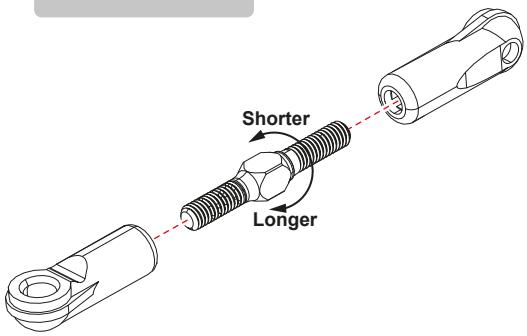


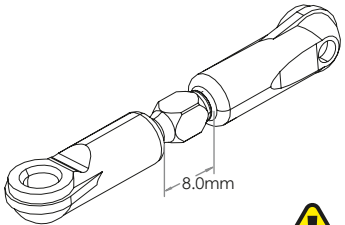


Steering Link (30MM)

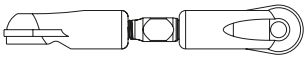
Build Two.

REAR TOE LINK





Rear Toe Link (24mm)



Build Two.

NEON FT

Front Hub Assembly

BAG B - Step 12

Ax2
Ballstud Long

Bx2
3mm Plastic Spacer

Cx2
M3 Nut

Dx4
M3x8 Button Hd Screw

Ex2
Ø5xØ10x3 Bearing

Fx2
Ø5xØ7x1.5mm Spacer

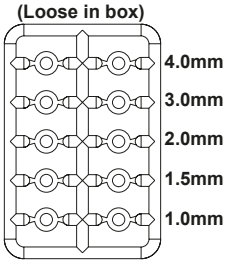
Gx2
Ø5xØ10x4mm Bearing

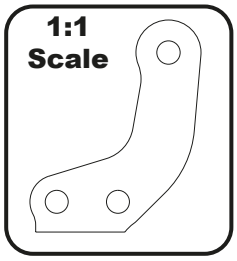
Hx2
5x7 x 0.5 Spacer

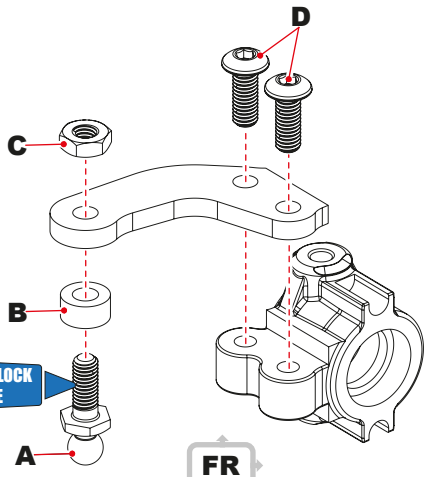
Ix2
Ø5.2xØ12x0.5
Spring Washer

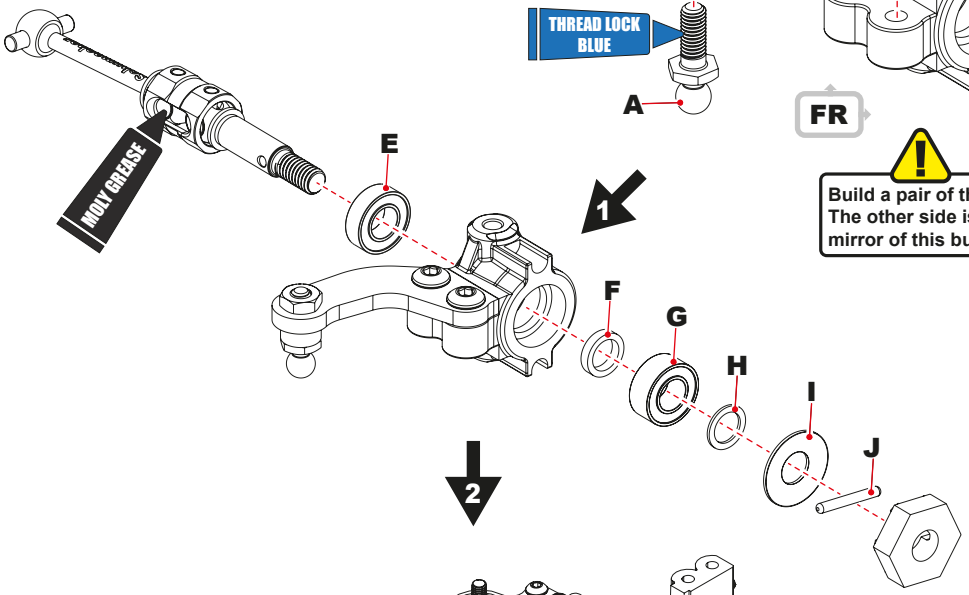
Jx2
Ø1.5x11.8 Roller Pin

Black Spacer Sprue
(Loose in box)

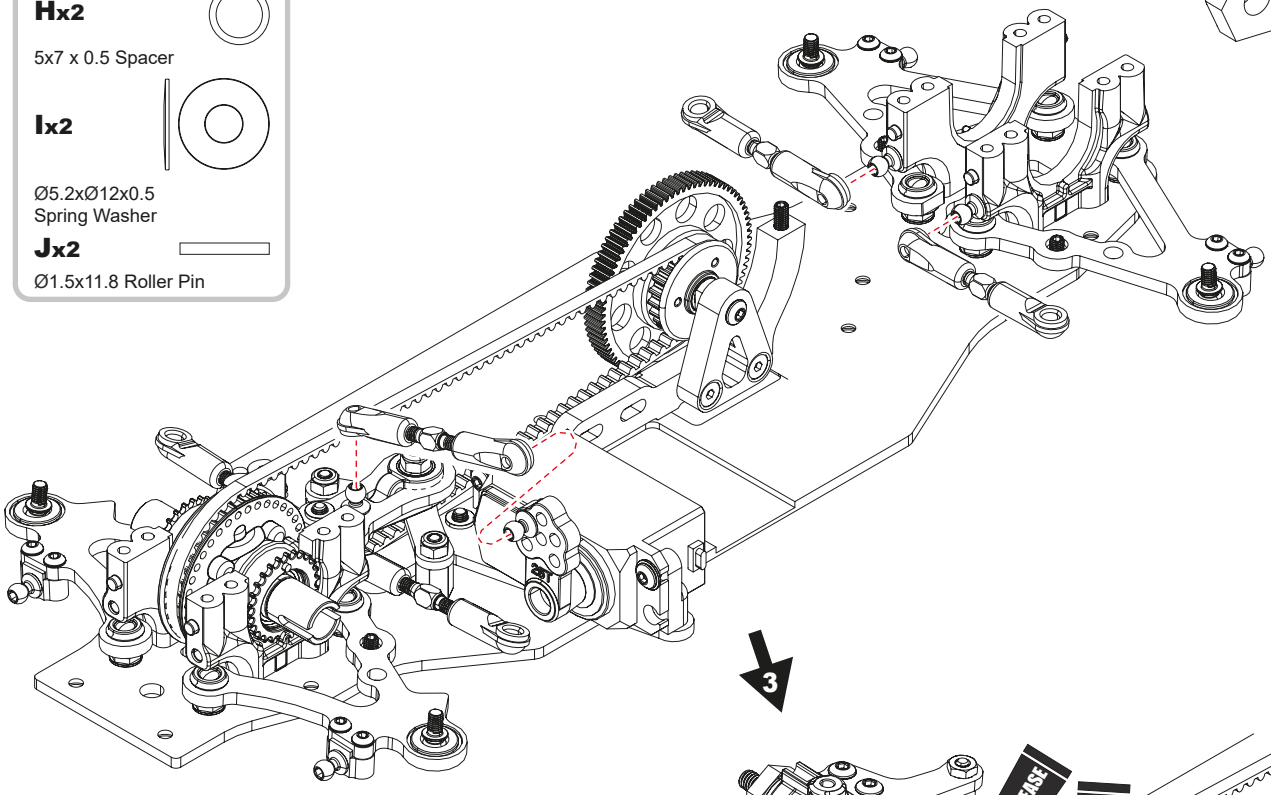


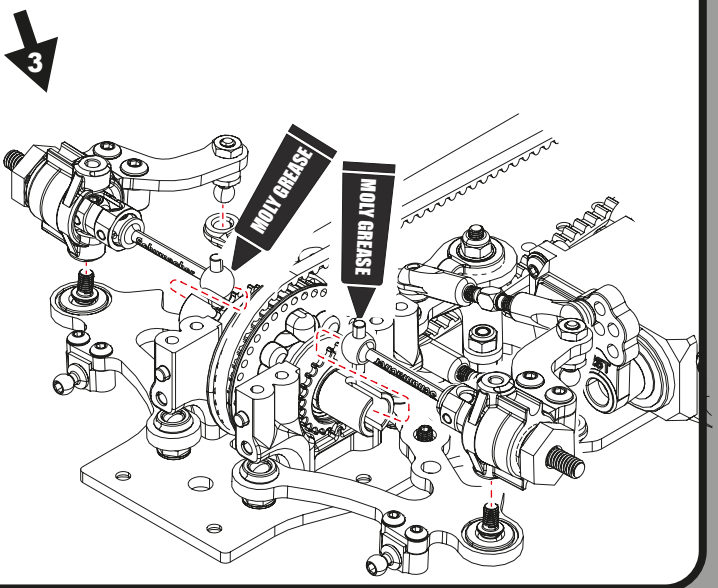






Build a pair of these. The other side is a mirror of this build.





NEON FT

Rear Hub Assembly

BAG B - Step 13

Ax4
M3x8 Button Hd Screw

Bx2
M3 Nyloc Nut

Cx2
Ballstud Long

Dx2
3mm Plastic Spacer

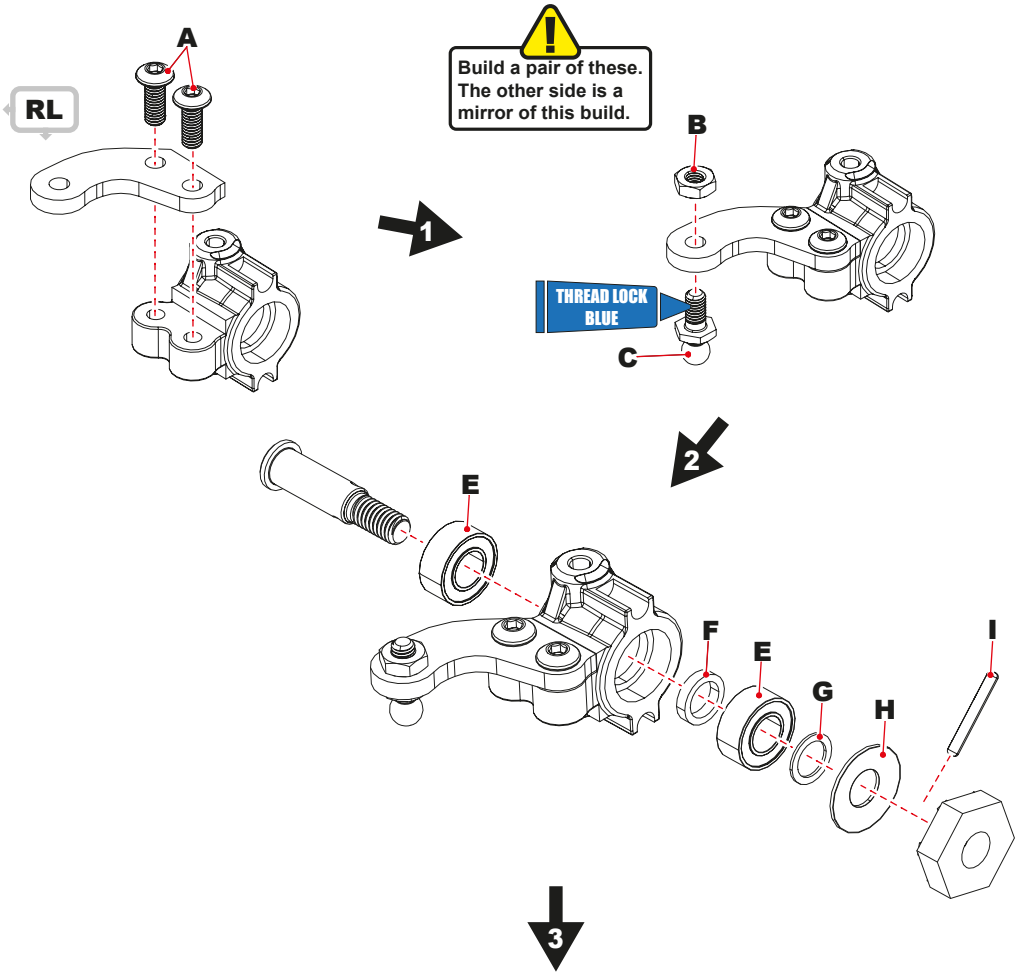
Ex4
Ø5xØ10x4mm Bearing

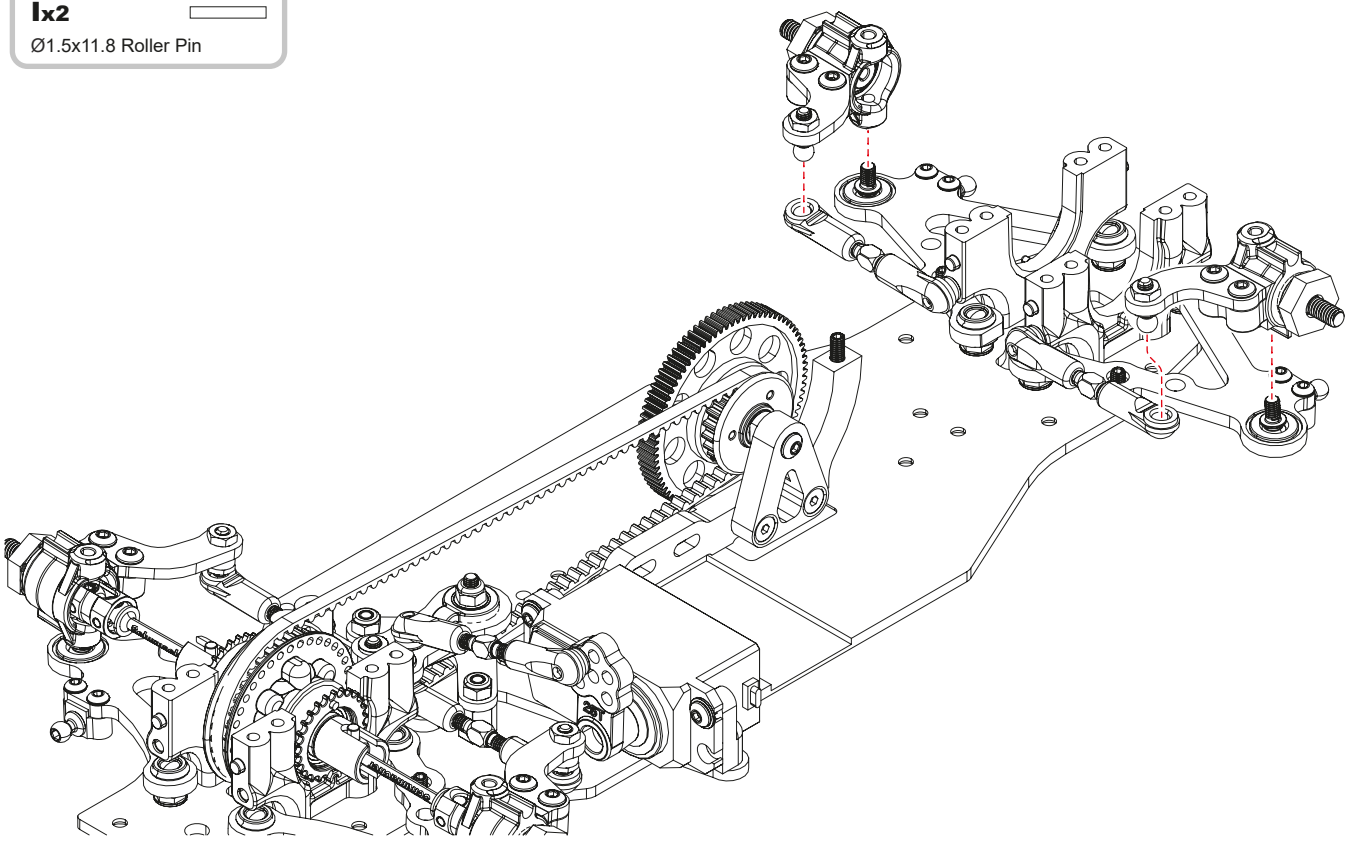
Fx2
Ø5xØ7x1.5mm Spacer

Gx2
Ø5xØ7x 0.5 Spacer

Hx2
Ø5.2xØ12x0.5
Spring Washer

Ix2
Ø1.5x11.8 Roller Pin





NEON FT

Upper Arm Assembly

BAG B - Step 14

Ax8

Pivot Ball

Bx4

Ø6x1.0 'O' Ring

Cx8

Ø5x1.0 'O' Ring

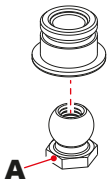
Dx8

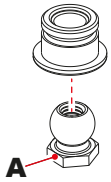
M3x8 Button Hd Screw

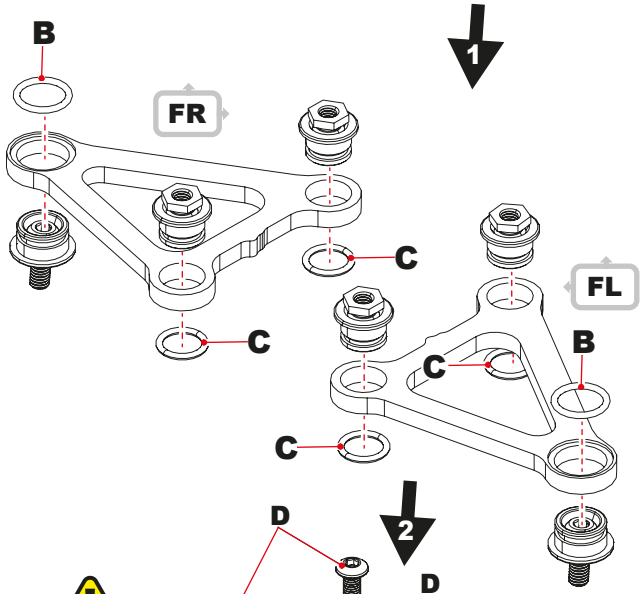
Ensure the 'O' Ring is correctly seated into the groove on the outer sockets.

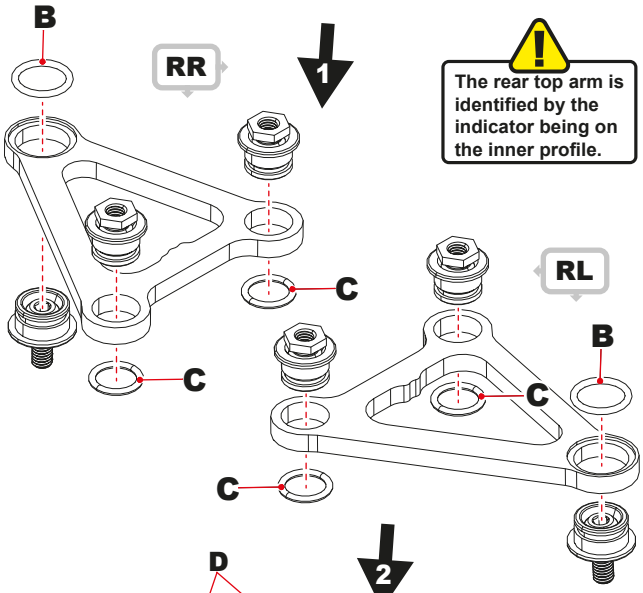
Ensure the 'O' Ring is correctly seated into the groove on the inner sockets.

Use pliers or shock pliers to assemble the pivot ball.

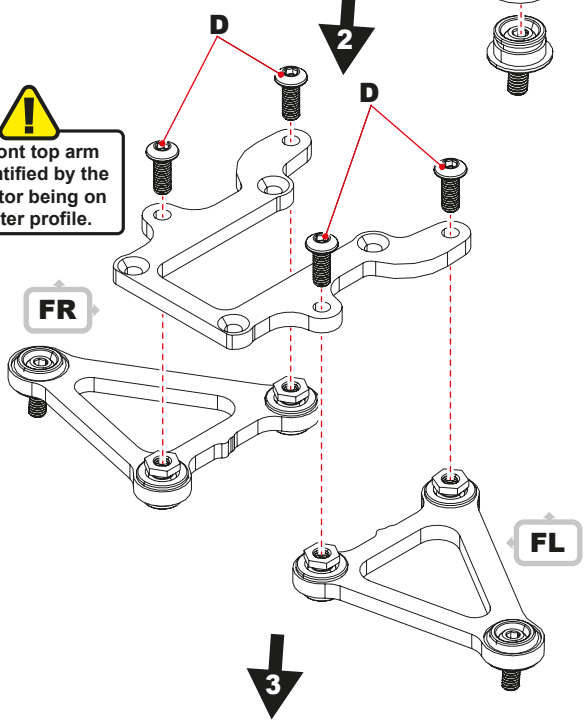




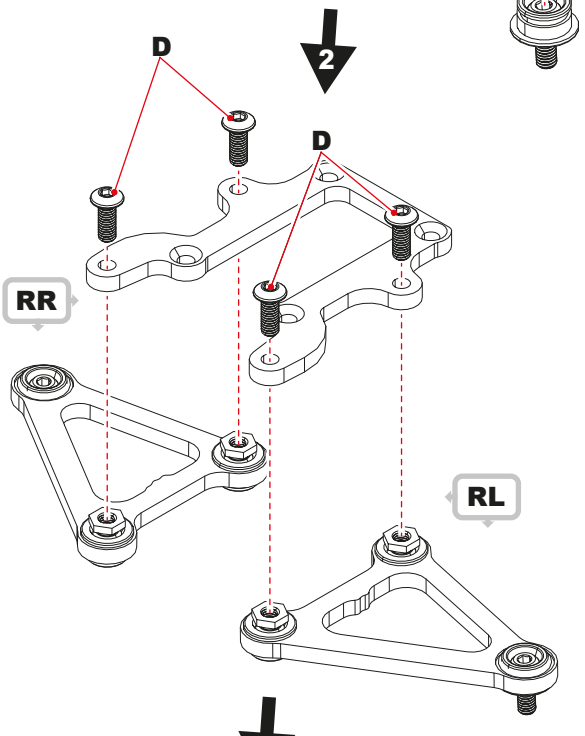


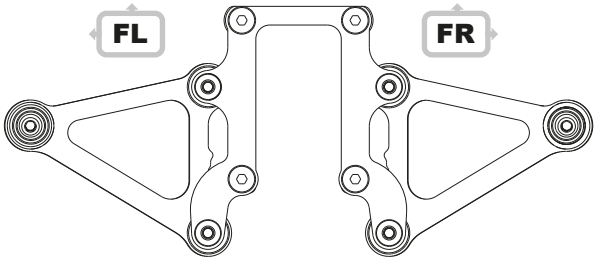


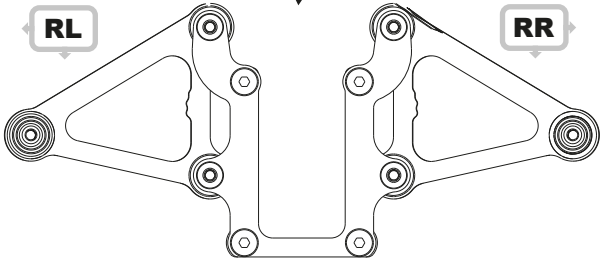
The front top arm is identified by the indicator being on the outer profile.



The rear top arm is identified by the indicator being on the inner profile.







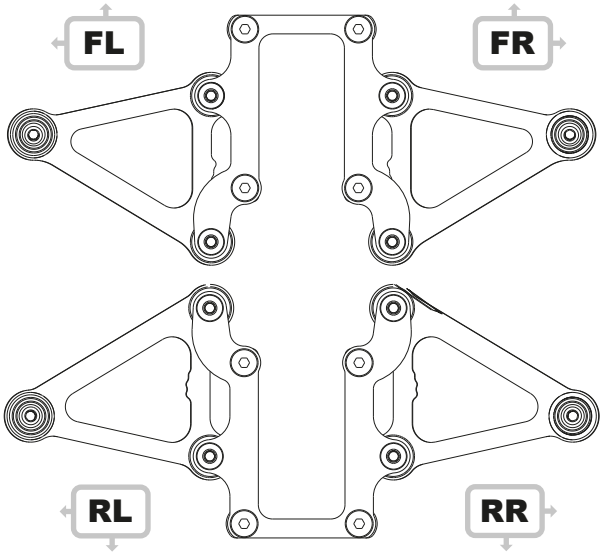
NEON FT

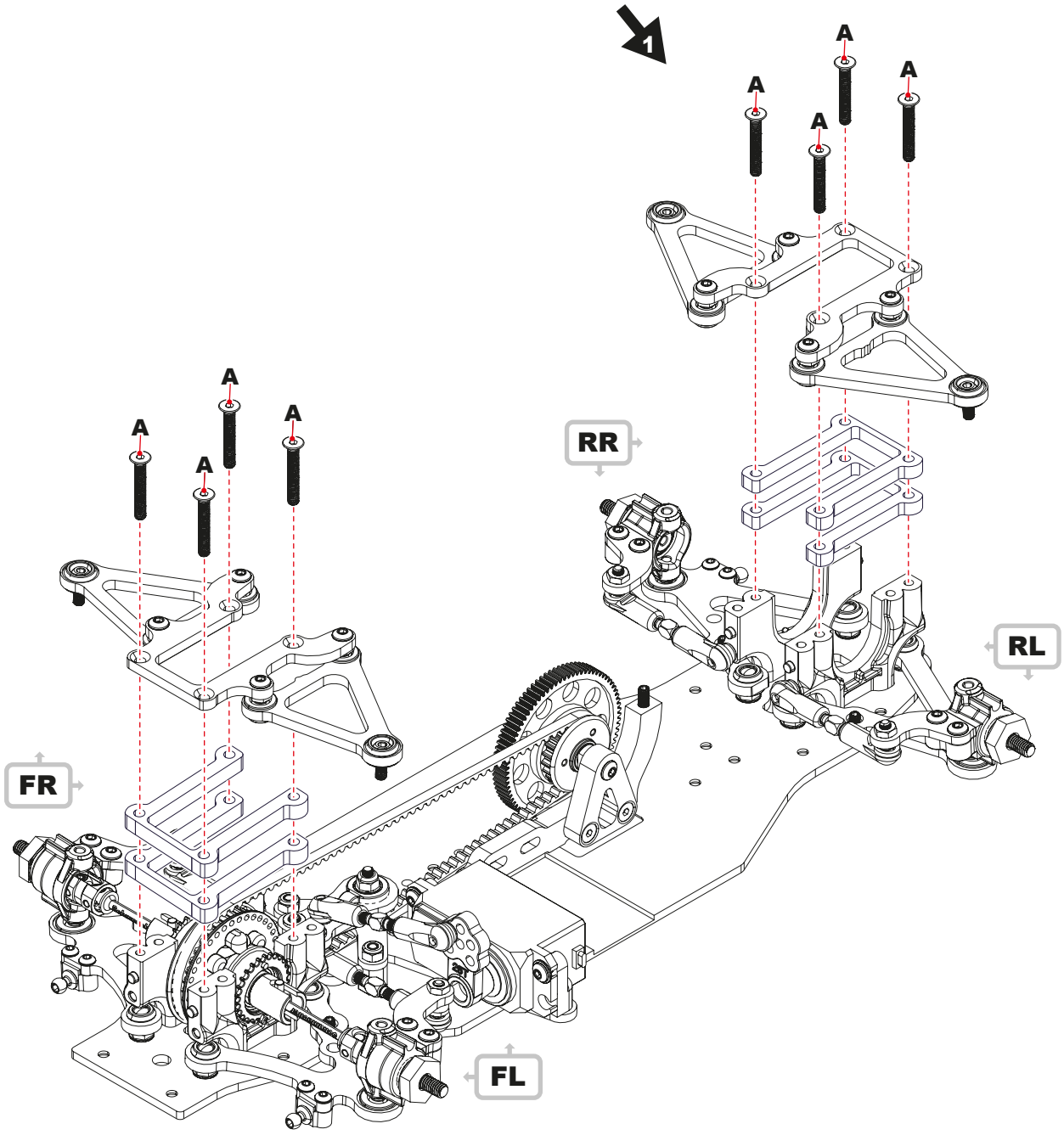
Upper Arm Assembly

BAG B - Step 15

A x8

M3x20 Csk Screw





NEON FT

Topdeck & Towers Assembly

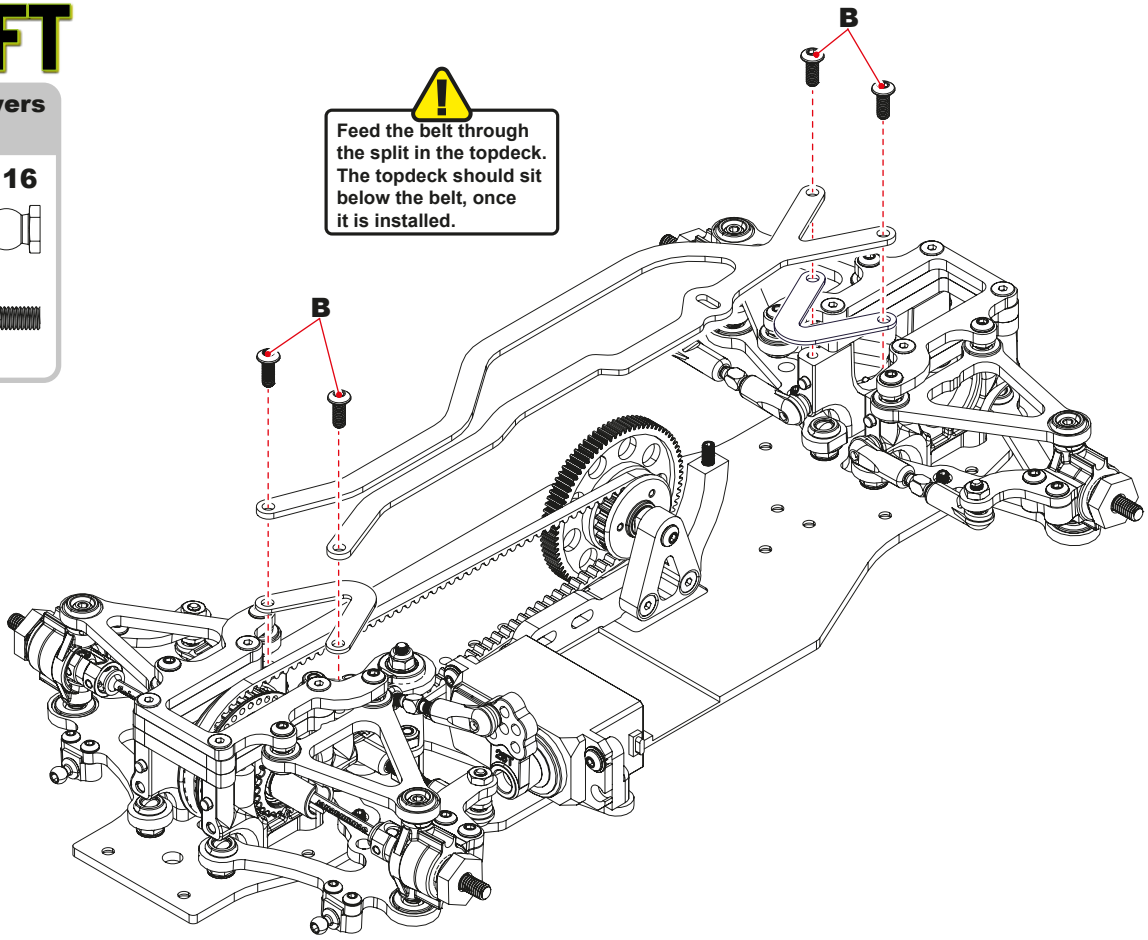
BAG B - Step 16

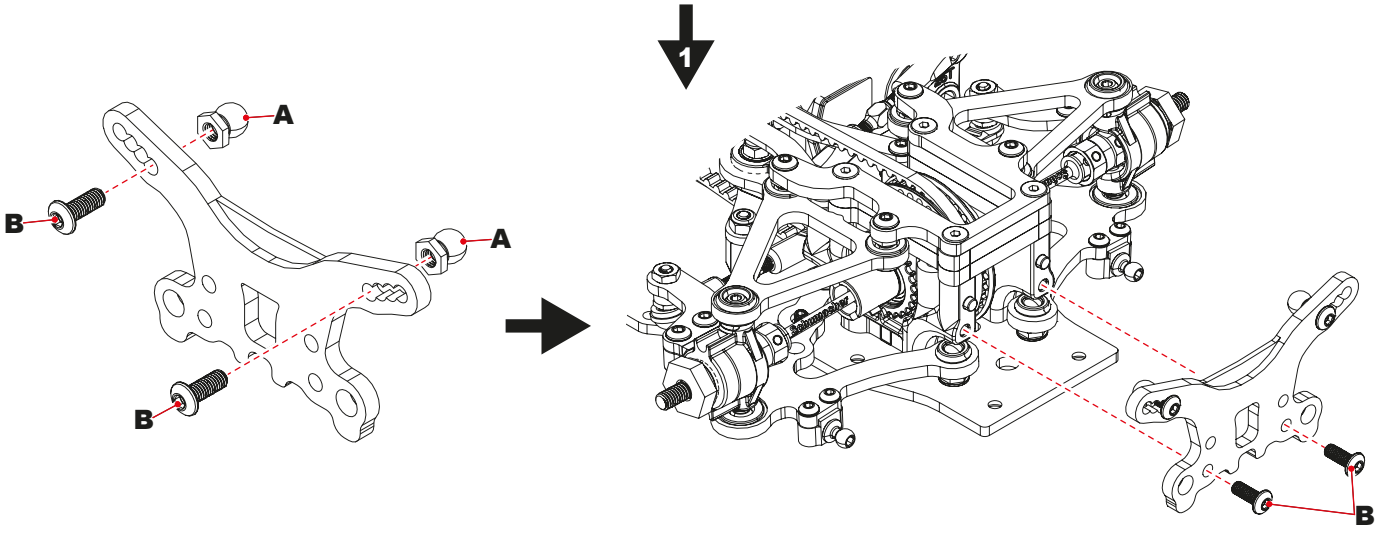
Ax4

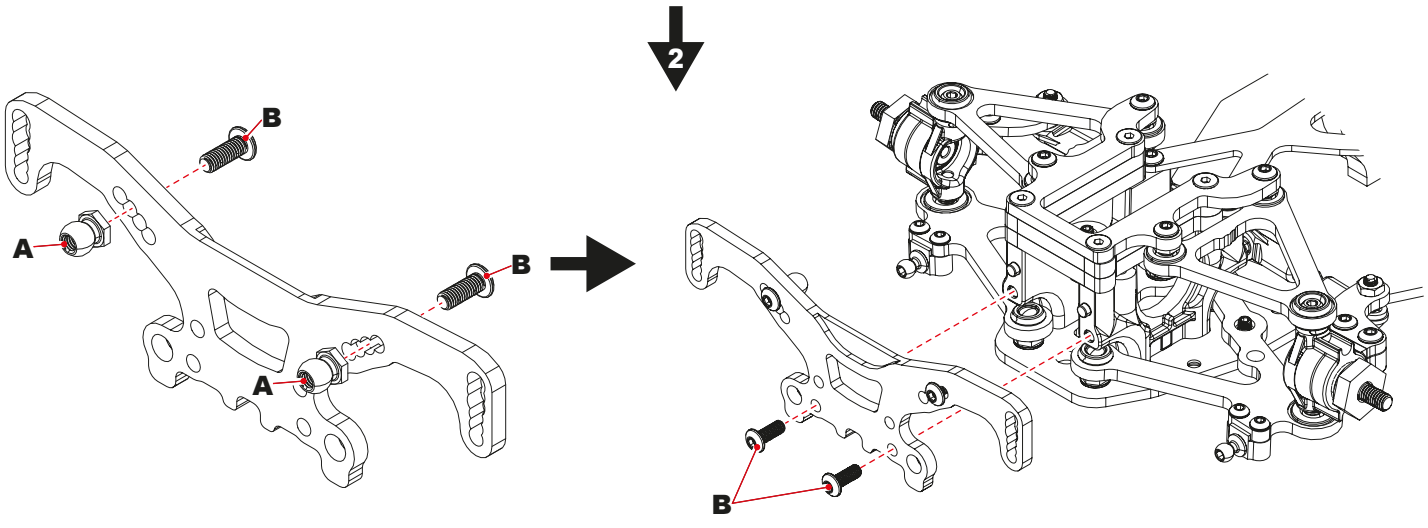
Pivot Ball

Bx12

M3x8 Button Hd Screw





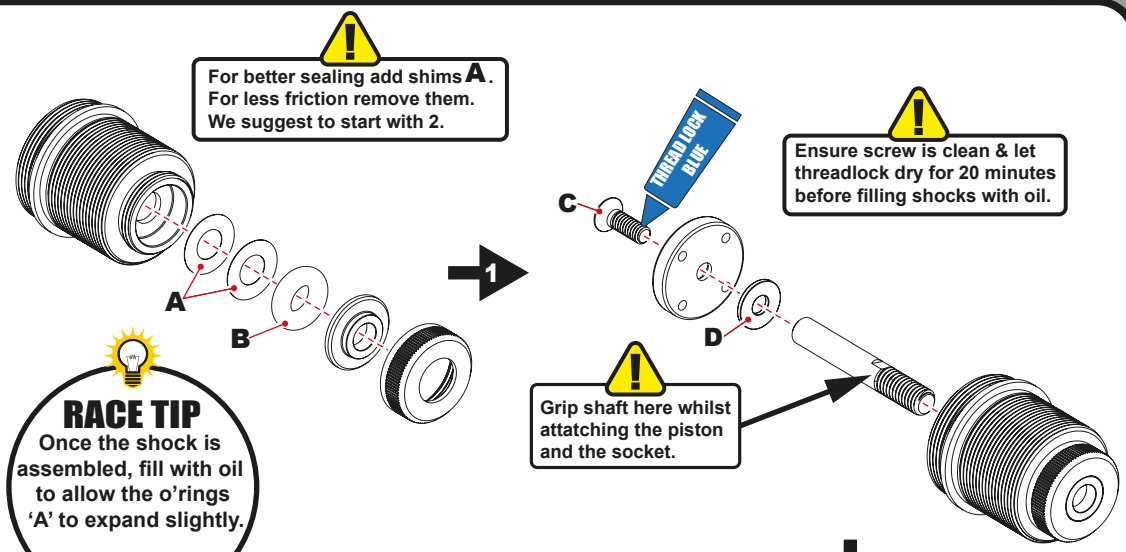


NEON FT

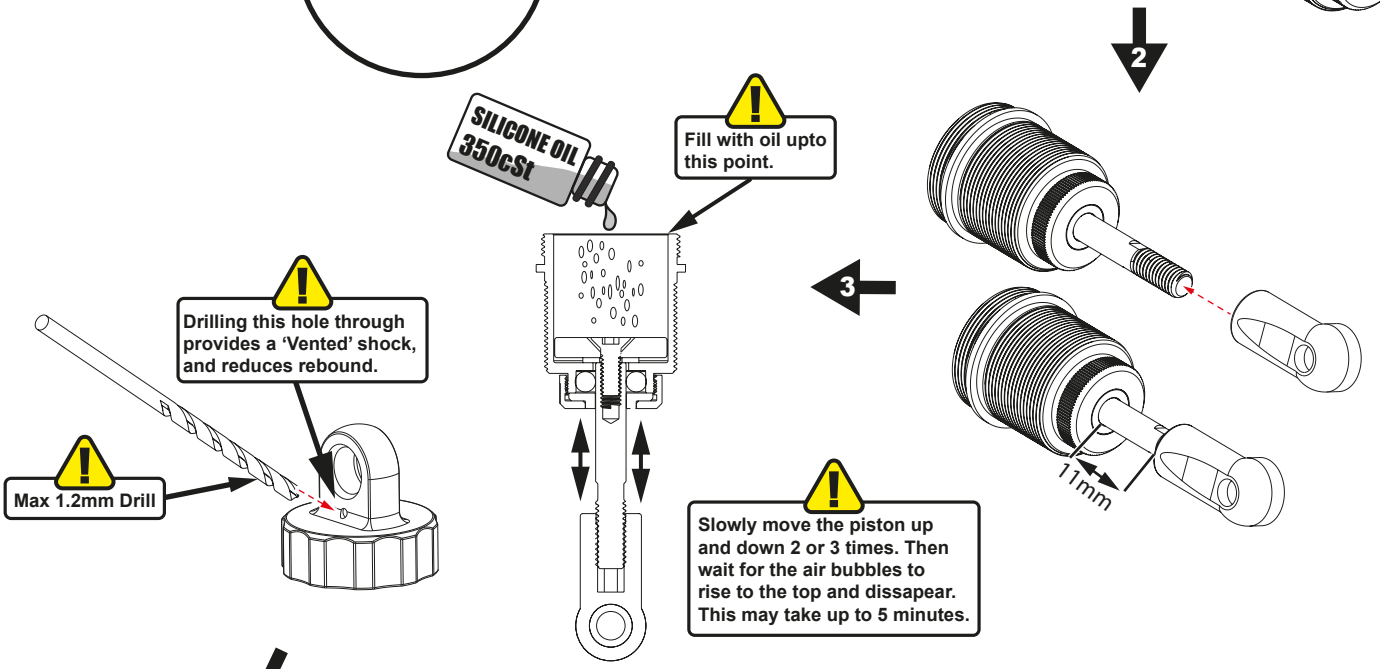
Shock Assembly

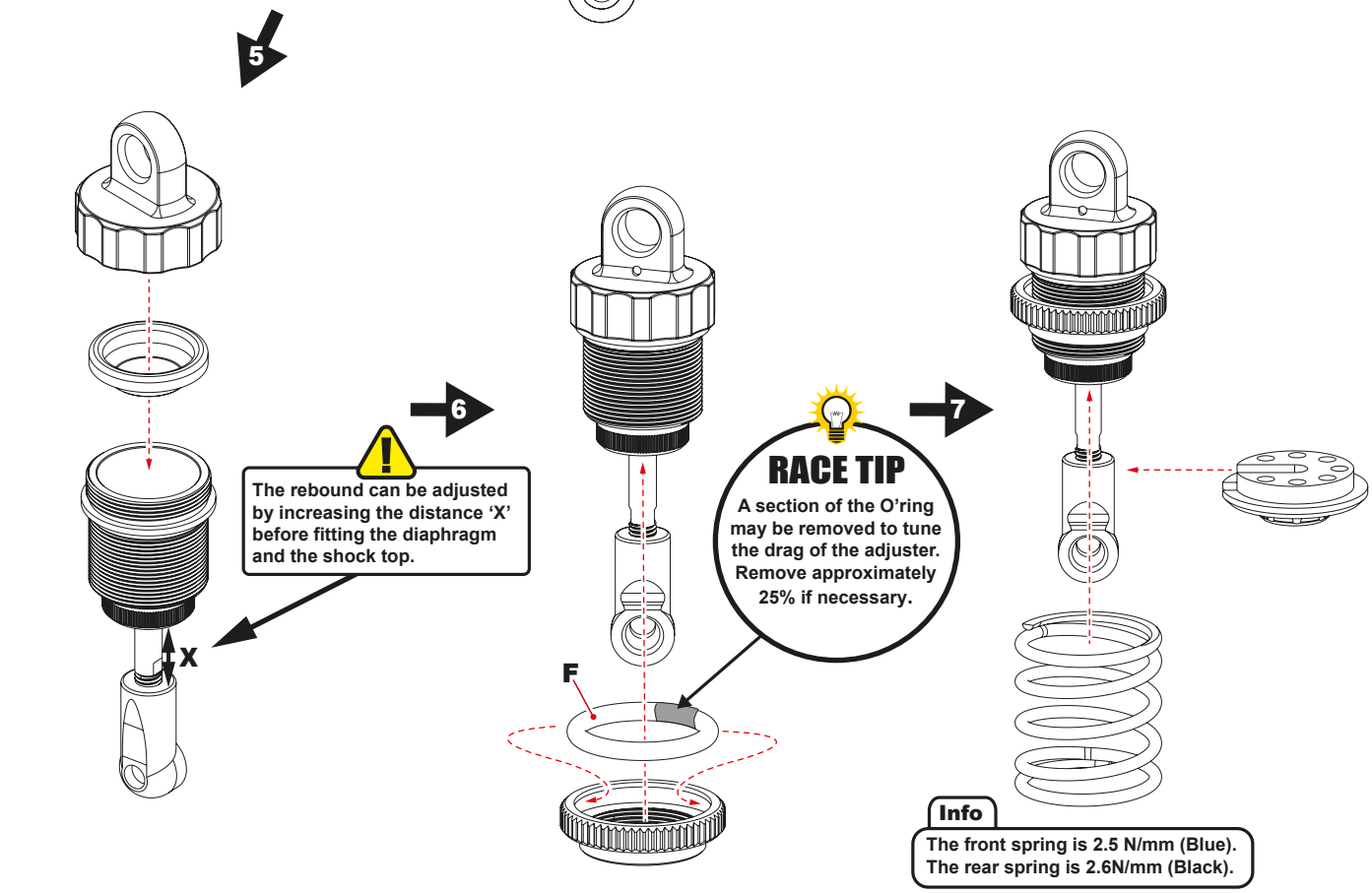
BAG C - Step 17a

- **Ax8** Shock Shim
- **Bx4** Red 'O' Ring
- **Cx4** M2x6 Csk Screw
- **Dx4** M2 Washer



RACE TIP
Once the shock is assembled, fill with oil to allow the o'rings 'A' to expand slightly.





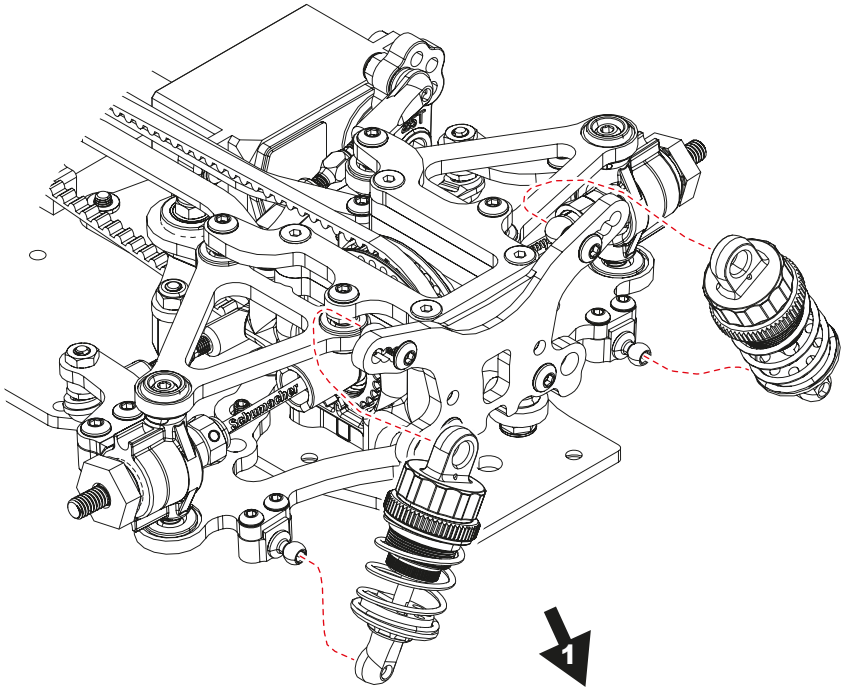
RACE TIP
A section of the O'ring may be removed to tune the drag of the adjuster. Remove approximately 25% if necessary.

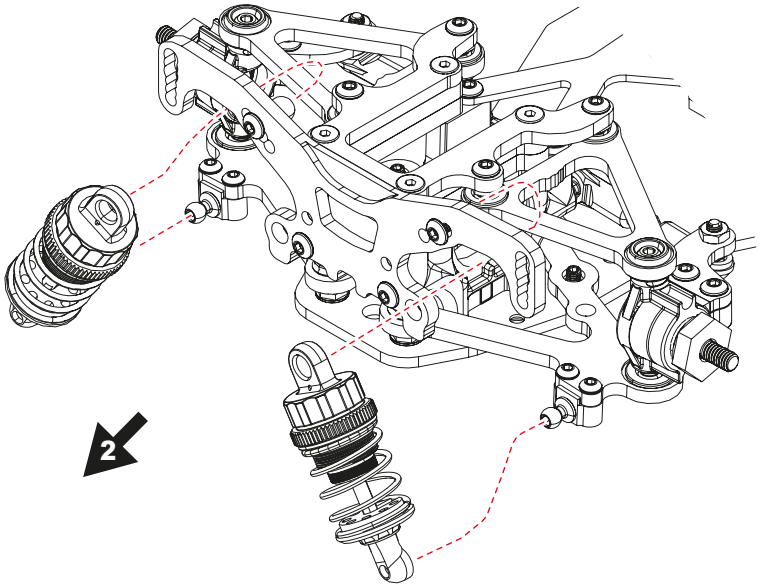
Info
The front spring is 2.5 N/mm (Blue).
The rear spring is 2.6N/mm (Black).

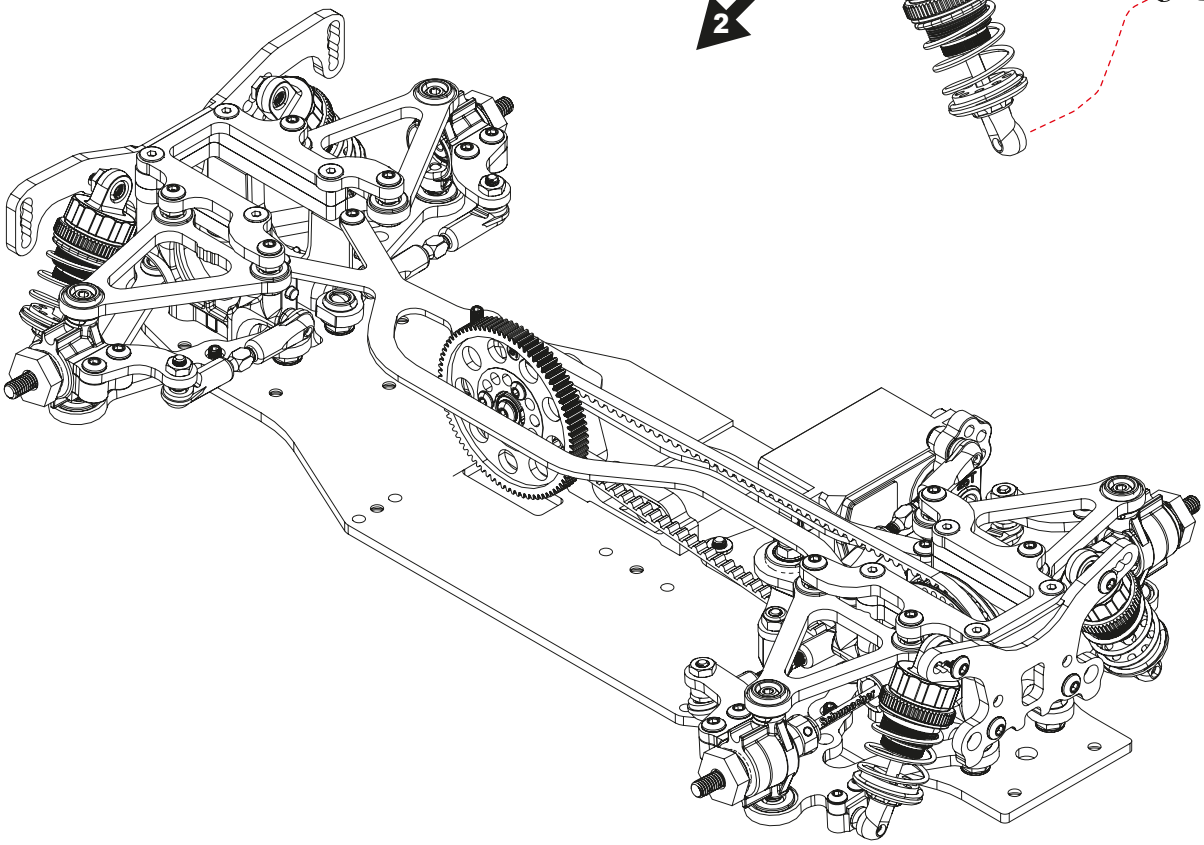
NEON FT

Shock Assembly

BAG C - Step 17b







NEON FT

Bumper Assembly

BAG C - Step 18a

Ax3

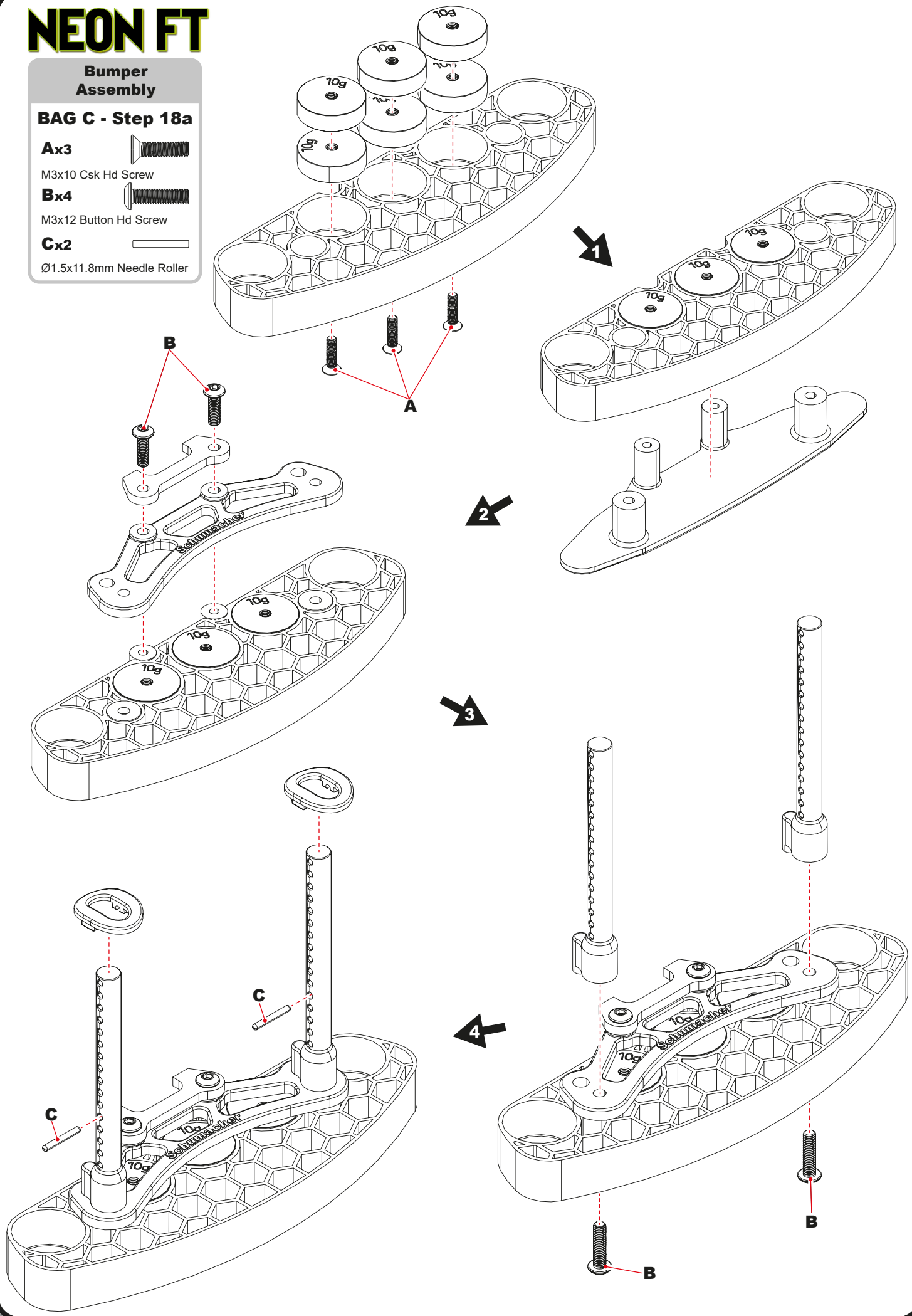
M3x10 Csk Hd Screw

Bx4

M3x12 Button Hd Screw

Cx2

Ø1.5x11.8mm Needle Roller



NEON FT

Bumper Assembly

BAG C - Step 18b

Ax2

M3x10 Csk Hd Screw

Bx2

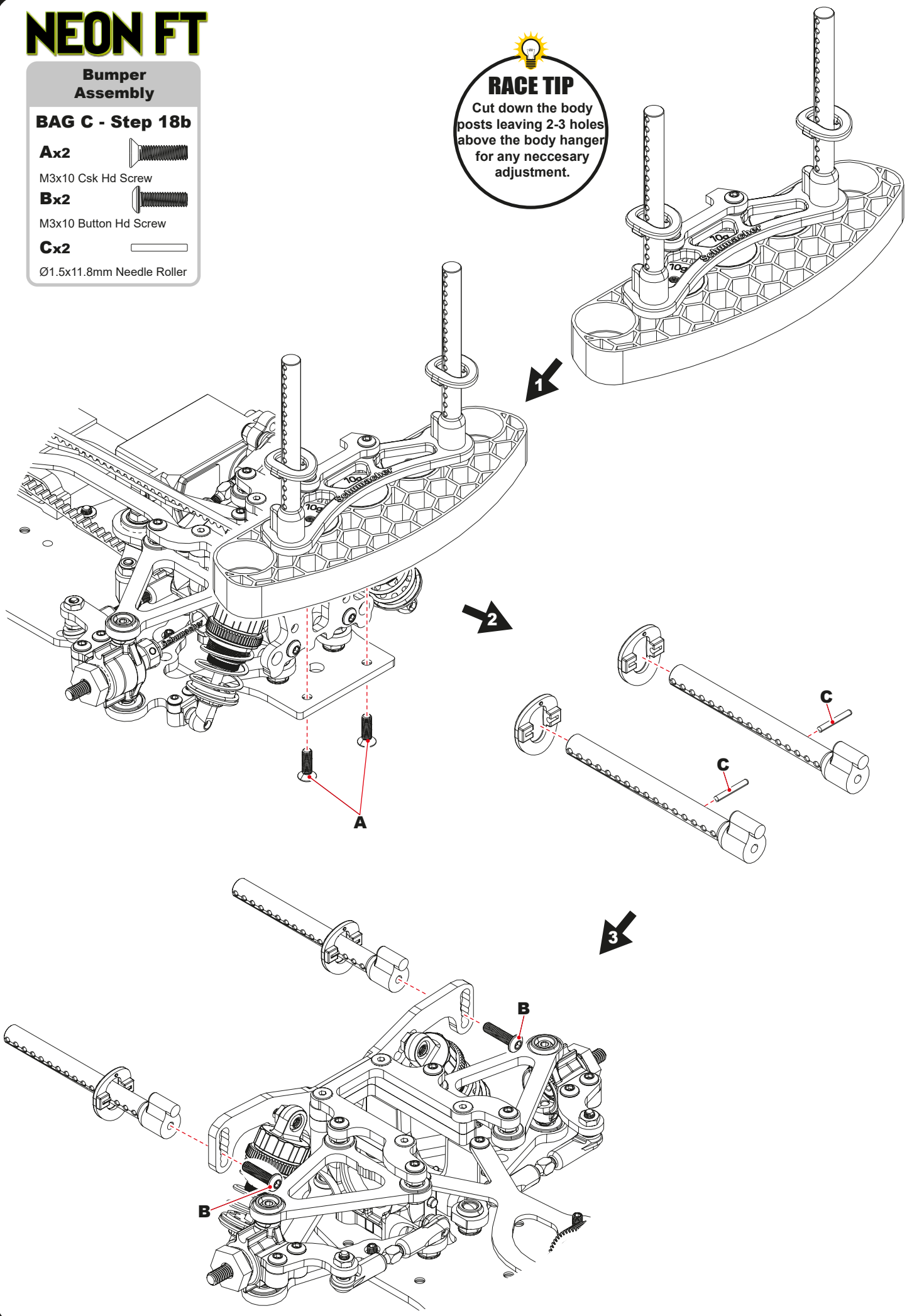
M3x10 Button Hd Screw

Cx2

Ø1.5x11.8mm Needle Roller

RACE TIP

Cut down the body posts leaving 2-3 holes above the body hanger for any neccesary adjustment.



NEON FT

LiPo Mount Assembly

BAG C - Step 19

Ax1
M3x6 Csk Hd Screw

Bx2
M3x12 Csk Hd Screw

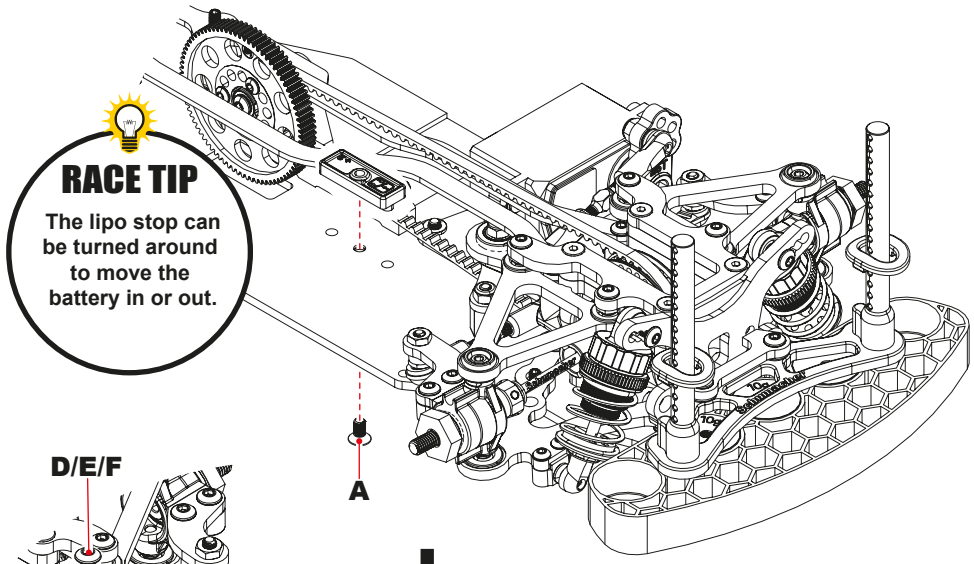
Cx2
M3x10 Csk Hd Screw

Dx2
M3x10 Button Hd Screw

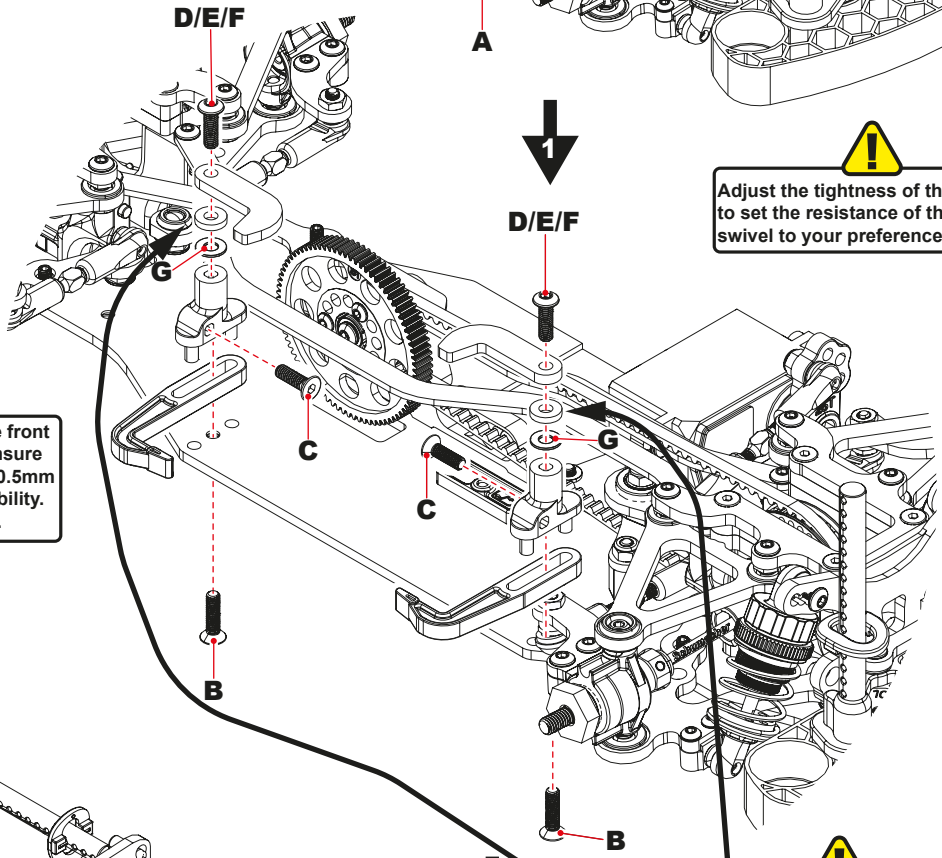
Ex2
M3x12 Button Hd Screw

Fx2
M3x16 Button Hd Screw

Gx2
0.5mm washer



RACE TIP
The lipo stop can be turned around to move the battery in or out.



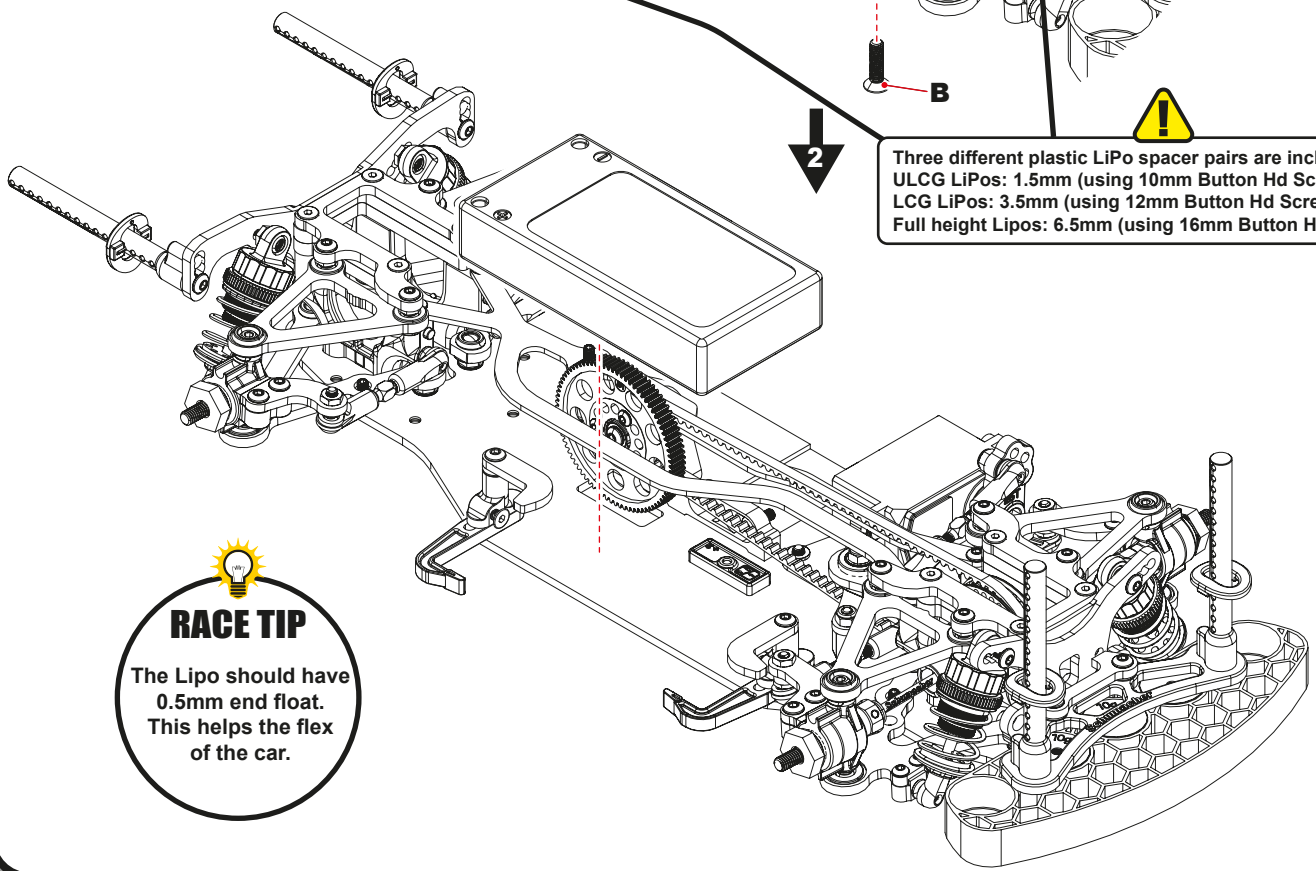
1

Adjust the tightness of the screws to set the resistance of the LiPo swivel to your preference.

Adjust the screws 'C' to set the front to rear position of the LiPo. Ensure there is always approximately 0.5mm of endfloat. This will help flexibility. The kit LiPo position is central.

2

Three different plastic LiPo spacer pairs are included:
ULCG LiPos: 1.5mm (using 10mm Button Hd Screws 'D')
LCG LiPos: 3.5mm (using 12mm Button Hd Screws 'E')
Full height Lipos: 6.5mm (using 16mm Button Hd Screws 'F')



RACE TIP
The Lipo should have 0.5mm end float. This helps the flex of the car.

NEON FT

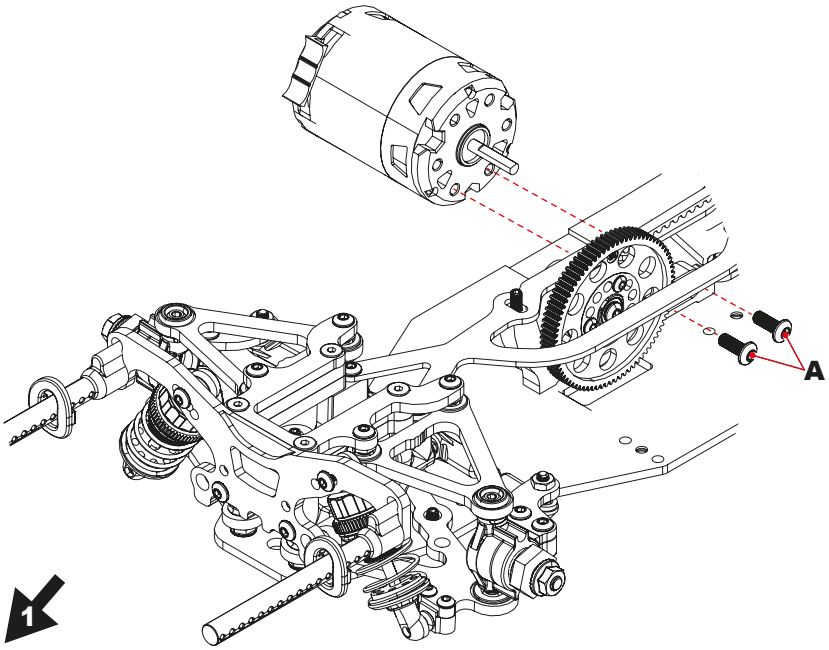
Bumper Assembly

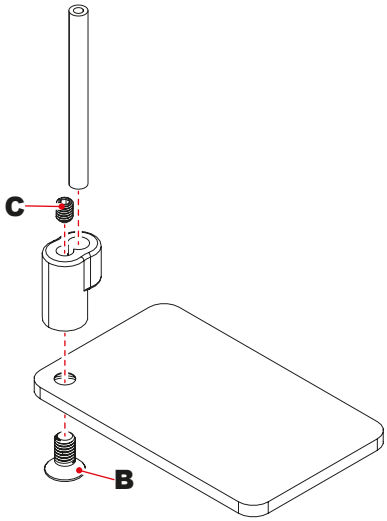
BAG C - Step 20a

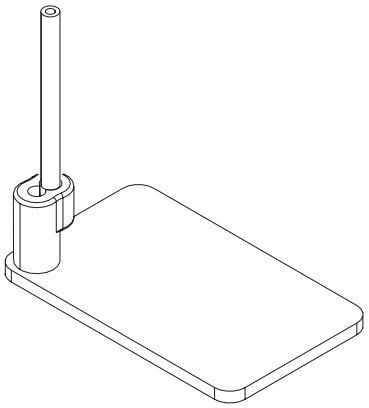
Ax2
M3x8 Button Hd Screw

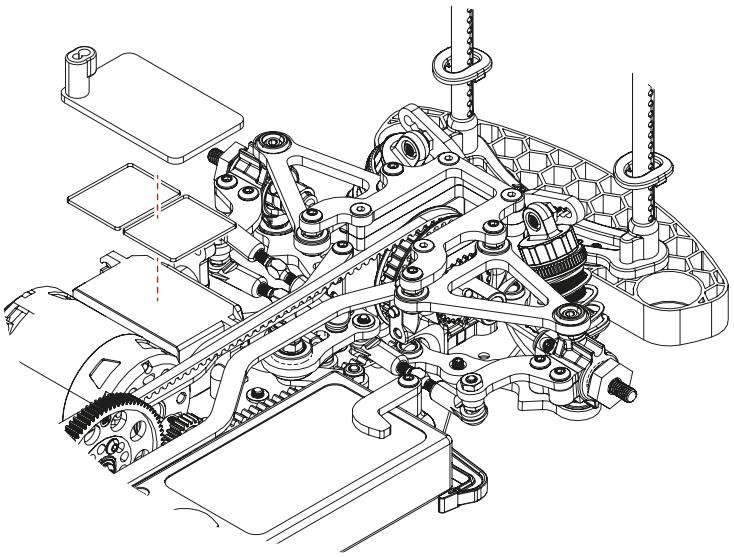
Bx1
M3x6 Csk Hd Screw

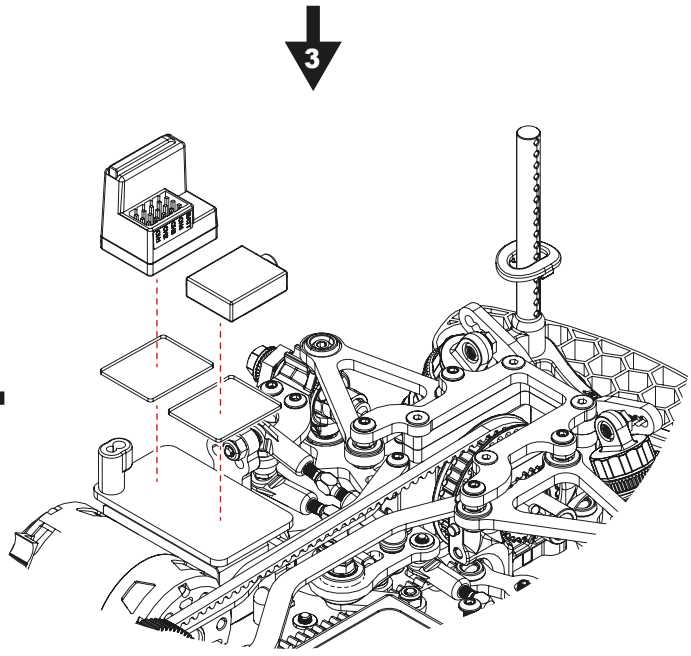
Cx1
M3x4 Grub Screw

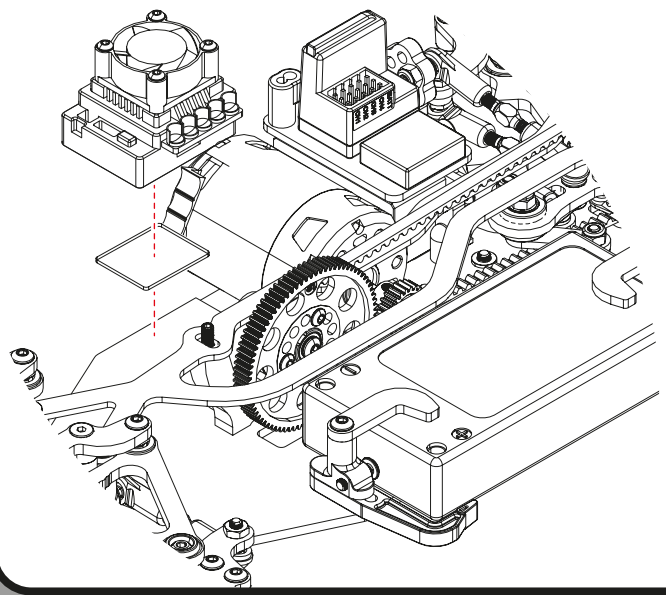












NEON FT

Wheel Assembly

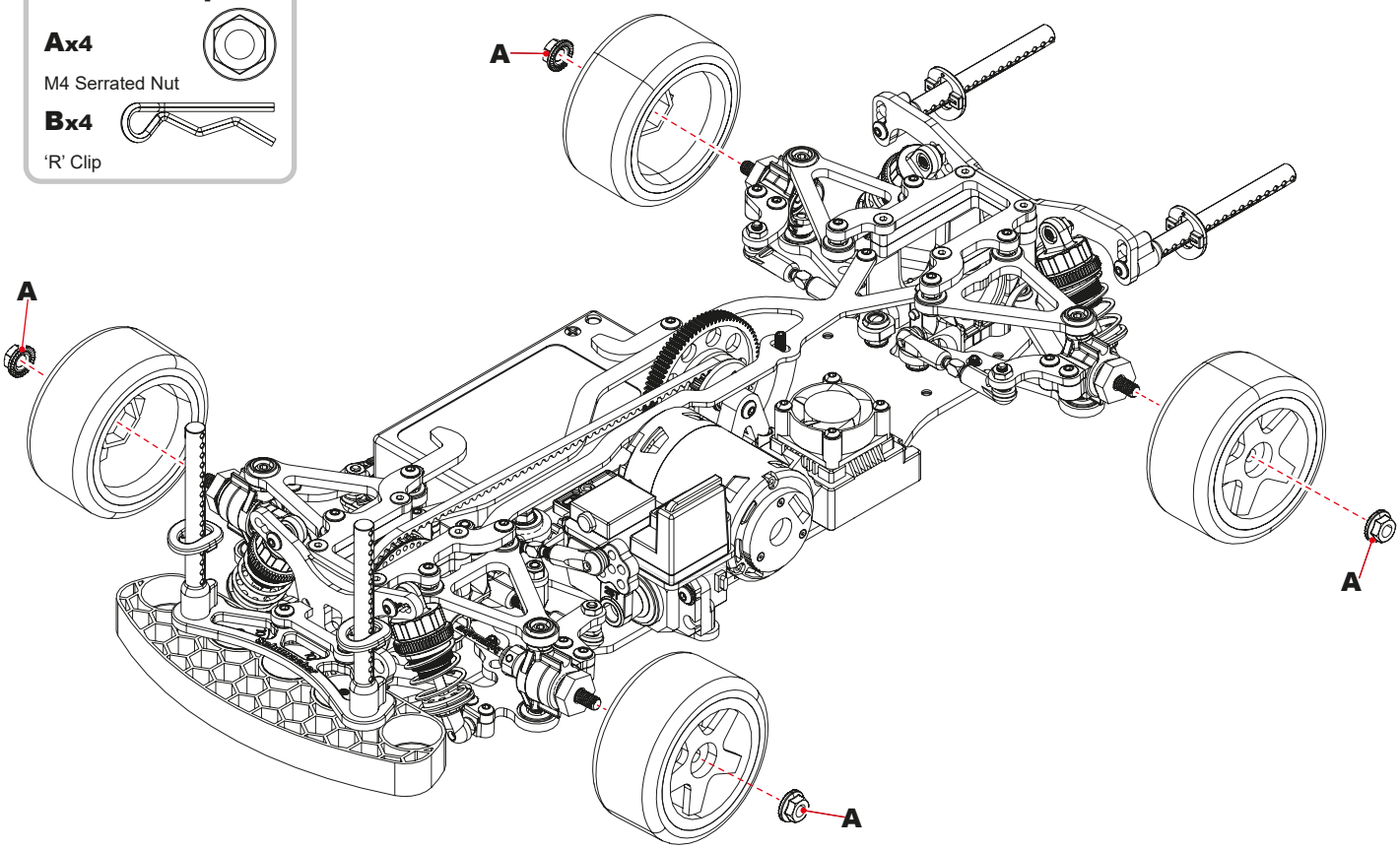
BAG C - Step 20b

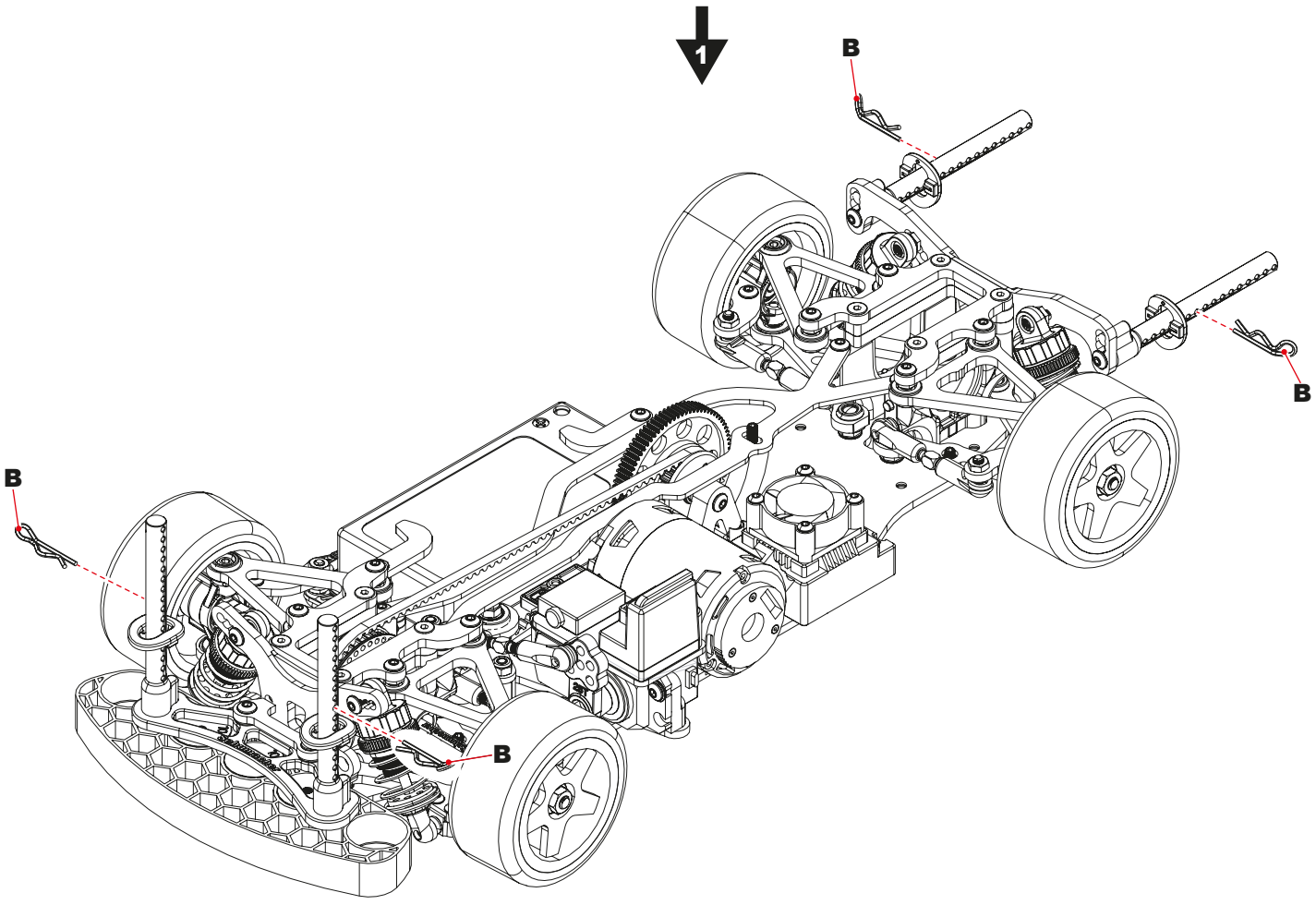
Ax4

M4 Serrated Nut

Bx4

'R' Clip





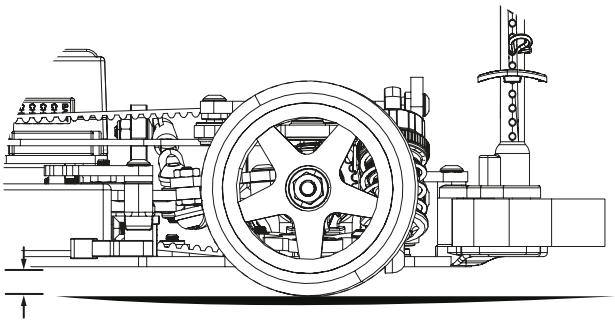
NEON FT

FRONT WHEEL DRIVE MFT PRO CHASSIS

TRACK SETTINGS

RIDE HEIGHT

Use the spring adjusters on the shock absorbers to adjust the front and rear ride heights. We recommend setting the ride height to around 5.0mm on carpet/ high traction tarmac/asphalt and 5.5mm on tarmac/asphalt or low traction carpet tracks.
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.
In general:
High traction levels/Smooth tracks =Lower ride height (5.1mm-5.4mm)
Low traction levels/Bumpy tracks = Higher ride height (5.4mm-6.0mm)

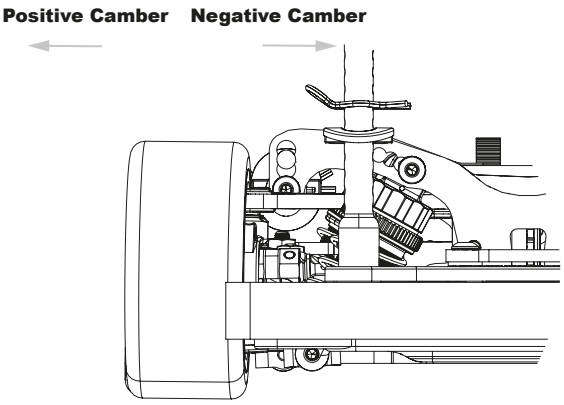


CAMBER

The kit comes with a 1.5 degree front upper wishbone, 2.5 degree rear upper wishbone. This is signified by the notch's on the upper wishbones. There is an optional wishbone set (U8893) that can be used to set desired levels of camber and castor.

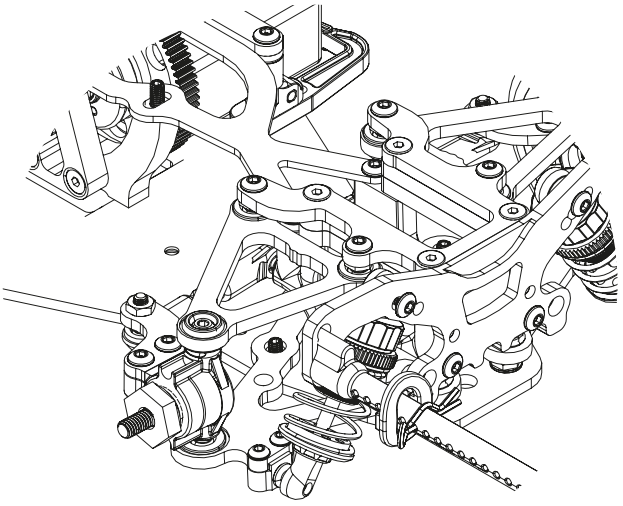
In general the aim is to run the correct amount of camber for the tyre being used and the track conditions. Typically this is between -1.5°and -2.5°.

Increasing the front and rear camber together will often result in more traction, but with a more sudden loss of grip when going beyond the limit. Less overall camber will offer a more progressive slide but may have less overall grip. More camber may be applied to the front or rear, normally resulting in more grip at that end of the car. The team suggest a starting camber of 2.5° Rear and 1.5° Front, increasing to 2° Front camber if more front grip/steering is required.



TRACK WIDTH

The track width may be adjusted using 2 different hex widths, or shims:
U8333 - Wheel hex spacers 0.25, 0.5, 0.75mm - pk12
U3570 - Alloy wheel hex ; Slim (pr)
Increasing the rear track width provides more rear stability/less rotation and vice versa.Increasing the front track width provides a less agressive/less rotation and vice versa.A wider car is better suited to high traction conditions and a narrower car to low traction conditions.



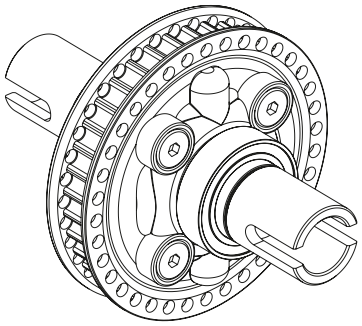
NEON FT

FRONT WHEEL DRIVE MFT PRO CHASSIS

GEAR DIFF

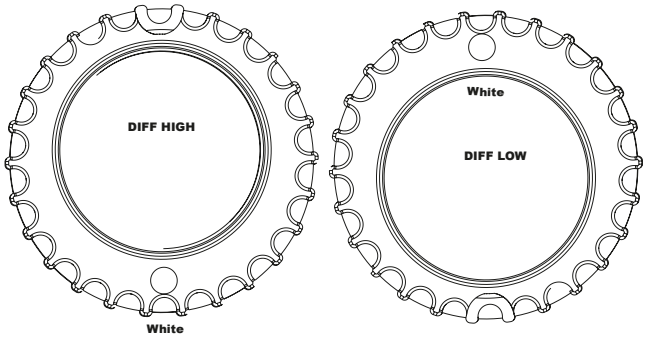
Gear diff oil can be changed to affect car handling.
Generally, high traction conditions = thicker oil. (300k-500k)
Low traction conditions = thinner oil. (100K-200K),
A thicker gear diff oil will have a much smoother off power, corner entry feeling, preventing corner entry over rotation. It will also make the car feel less likely to slide off power, in the corner. It will however have more on power steering, and more traction.

Thinner gear diff oil will create the opposite effect. More aggressive corner entry, and more steering off power in the corner. It will have less on power steering, and less traction.



DIFF/SPOOL HEIGHT

The diff height can be adjusted by rotating the eccentric 180°.
The white dot on the eccentric indicates whether the diff is in high or low position (see diagram to right). The low diff provides more front grip; high diff is smoother to drive.

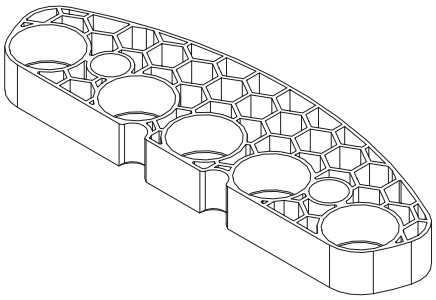


WEIGHT DISTRIBUTION

There are several positions intended for weight placement in the front and rear of the car. Please see the setup sheet for suggested placements. We recommend the use of CR723 for this.

For the most neutral car balance, we recommend a 58:42 weight distribution. This is easily achieved with 60g in the front bumper.

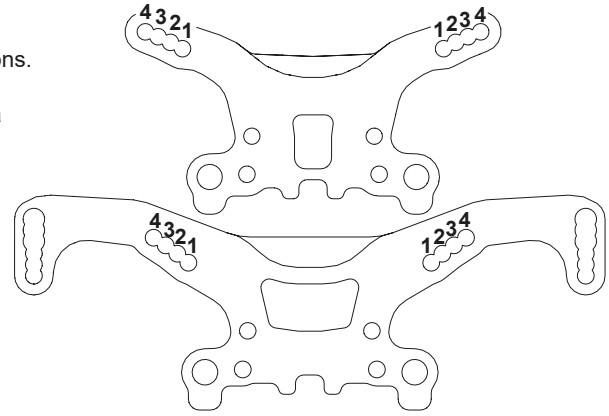
More rearwards weight generally gives a more agressive car with more steering.
More forwards weight generally gives a smoother car handling with less steering but more forwards drive.



SHOCK ANGLES

The shock angles can provide fine tuning over the suspension stiffness.
A more angled shock setup (lower number shock mount holes) creates a softer setup which is less responsive, often suited to high traction conditions.

A more upright shock setup (higher number shock mount holes) creates a stiffer setup which is more responsive, often suited to lower traction conditions.

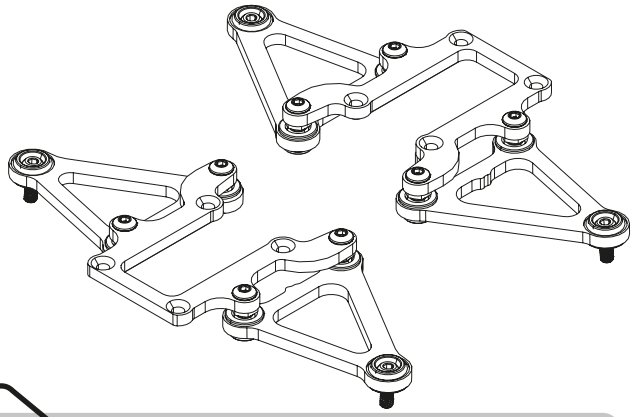


NEON FT

FRONT WHEEL DRIVE MFT PRO CHASSIS

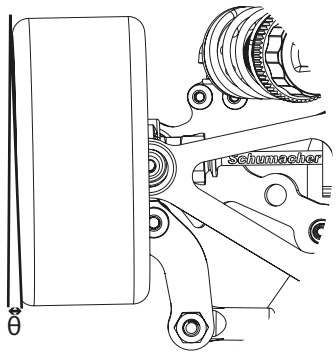
LINK HEIGHTS

The Neon FT link heights are adjustable.
A lower link height will provide more grip to that end of the car.
A higher link height will provide more rotation to that end of the car at the expense of grip.
A higher link will work best in high grip conditions and low links work the best in low grip conditions.



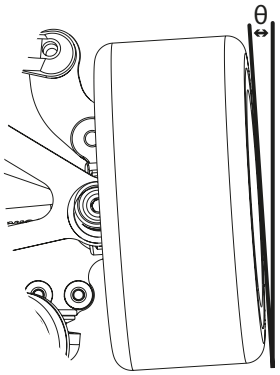
FRONT TOE

The front toe is set by adjusting the steering turnbuckles.
Toe in will give a more stable car and less responsive/nervous initial steering.
Toe out will give a more agressive car with more responsive initial steering.
The team recommend a range between 0° and 1° of toe out. It is very rare to benefit from toe in on the front of the car.



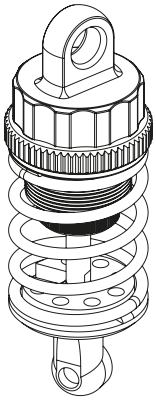
REAR TOE

Static rear toe is measured on setup gauges such as SK-600069-01 or AM171040-LE and is the toe angle of the rear wheels when at ride height. The kit setup is 1.5°.
This is adjusted simply by altering the length of the rear turnbuckles shown.
More rear static toe in provides more stability, rear grip and forward traction.
Less rear static toe in offers more rotation providing the rear stability is enough to drive confidently through the corner.
In low traction conditions the team suggests a range between 1.5°and 3°.
In high traction conditions the team suggests a range between 0° and 1.5°.



SHOCKS

Shock springs are used to set the suspension stiffness.
The team recommend a starting setup using Core-RC Blue springs front and Black Rear (included).
Stiffer springs are suited to high grip conditions. These increase response, forward traction and high speed stability. The track should be smooth when going to very stiff springs.
Softer springs are suited better to low grip conditions. They slow down direction change but may provide more overall grip, when the track grip is low. They may cause high speed stability issues if the grip is too high. Soft springs can be better when the track is bumpy. A softer car can sometimes be a benefit in very high grip, in order to prevent traction roll.

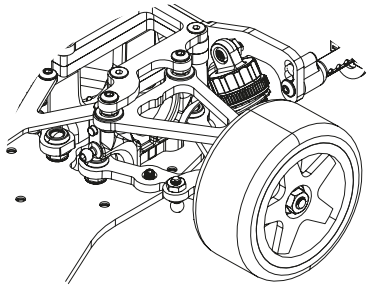


NEON FT

FRONT WHEEL DRIVE MFT PRO CHASSIS

DROOP

The starting point for droop suggested by the team is 20mm rear, 21mm front.
These numbers are checked on the Aerox droop gauge set. AX015.
This is the measurement between the chassis underside and the axle centre.
Droop is adjusted using the grub screw illustrated. This is identical to using 3.8mm Rear and 5.2mm Front by using a conventional droop gauge,that is being measured on the edge of the arm.



We suggest using a range between 20mm and 21mm depending on the track conditions. A lower number will give more grip and you can adjust the front and rear seperately to adjust the balance of the car.

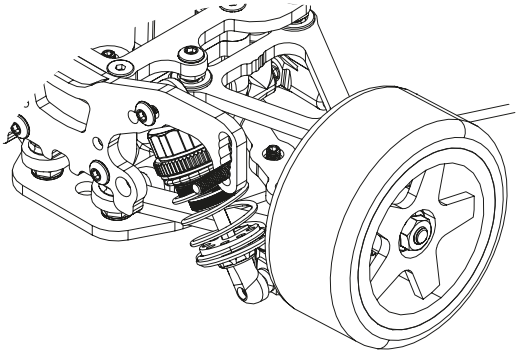
LOWER WISHBONE SPACERS

The kit setting is 0.5mm under all 8 wishbone lower balls.

Increasing the height of the arms = increased roll centres
lowering the height of the arms = decreased roll centres

Increased roll centres help the car to be free and will rotate more. This helps when the traction is high or when the car has understeer. Decreasing the roll centres will make the car more stable and easier to drive, however on high grip tracks the car may have excessive understeer.

Anti-dive is commenly used to improve the cars handling going into corners as it makes the car more stable at lower speeds. You can achieve this by using a smaller washer at the front arms, this creates a downwards angle on the front arms.



GEAR RATIO CHART

We recommend long boss pinions for less risk of run out issues. We strongly advise not to use pinions with two m3 tapped holes such as U3421 - U3440.

GEAR RATIO CALCULATIONS

Internal Ratio = 1.6363 : 1

Final Drive Ratio (FDR) = $\frac{\text{SPUR} \times 1.6363}{\text{PINION}}$

SPUR = $\frac{\text{FDR} \times \text{PINION}}{1.6363}$

PINION = $\frac{\text{SPUR} \times 1.6363}{\text{FDR}}$

GEAR RATIO CHART - 48DP

Maximum tooth sum = 123
Minimum tooth sum = 107

	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
67															2.74	2.67	2.61	2.54	2.49	2.43	2.38
68														2.85	2.78	2.71	2.64	2.58	2.52	2.47	2.41
69													2.97	2.89	2.82	2.75	2.68	2.62	2.56	2.50	2.45
70												3.09	3.01	2.93	2.86	2.79	2.72	2.66	2.60	2.54	2.49
71											3.22	3.14	3.05	2.97	2.90	2.83	2.76	2.70	2.64	2.58	2.52
72										3.36	3.27	3.18	3.10	3.02	2.94	2.87	2.80	2.73	2.67	2.61	2.56
73									3.51	3.41	3.31	3.22	3.14	3.06	2.98	2.91	2.84	2.77	2.71	2.65	2.59
74								3.66	3.56	3.45	3.36	3.27	3.18	3.10	3.88	2.95	2.88	2.81	2.75	2.69	2.63
75							3.83	3.71	3.60	3.50	3.40	3.31	3.22	3.14	3.02	2.99	2.92	2.85	2.78	2.72	2.66
76						4.01	3.88	3.76	3.65	3.55	3.45	3.36	3.27	3.18	3.06	3.03	2.96	2.89	2.82	2.76	2.70
77					4.20	4.06	3.93	3.81	3.70	3.60	3.50	3.40	3.31	3.22	3.10	3.07	3.00	2.93	2.86	2.80	2.73
78				4.40	4.25	4.11	3.98	3.86	3.75	3.64	3.54	3.44	3.35	3.27	3.15	3.11	3.03	2.96	2.90	2.83	
79			4.61	4.45	4.30	4.17	4.03	3.91	3.80	3.69	3.59	3.49	3.40	3.31	3.19	3.15	3.07	3.00	2.93		
80		4.84	4.67	4.51	4.36	4.22	4.09	3.96	3.85	3.74	3.63	3.53	3.44	3.35	3.23	3.19	3.11	3.04			
81	5.09	4.90	4.73	4.57	4.41	4.27	4.14	4.01	3.89	3.78	3.68	3.58	3.48	3.39	3.31	3.23	3.15				

NEON FT

SPARES LISTS

Bearings & Balls

U1411 Ball Bearing - 4x8x3 Shield - (pr)
U2148 Ball Bearing - 5x10x4 Shield - (pr)
U3016 Ball Bearing - 10x15x4 - Shield (pr)
U7326 Ball Bearing - 5x10x3 Shield - (pr)
U8320 Ball Bearing 3/16'x5/16' Yellow (pr)

Chassis Parts

CR723 Threaded Steel 10g Weight 17.60mm (pk4)
U4773 Aerial Mount
U7750 LiPo Mounting Mouldings Set - Touring
U7773 Alloy Steering Pivots/Spacers pr - Mi7-9,Neon,Vb
U7848 Servo Post - Mi7,Neon,Vibe
U7850 Body Post Set (4pcs) - Mi7,FT,Mi8,Neon,Vibe
U8316 Front Bumper Mouldings - FT8,FT9,Mi8-10,Neon,Vb
U8468 Moulded Chassis Post (4 pcs) - E5-6,A3
U8828 Inner Lipo Stop (pr) - Neon,Vibe
U8835 Transmission Housing (pr) - Neon,Vibe
U8848 S2 Bumper Stop - Neon
U8857 S2 Upper Link Mount (pr) - Neon
U8858 S2 Upper Link Mount 4mm Spacer (pr) - Neon
U9429 Motor Mount - Vibe FT
U9559 Aerial Tube (10cm) - pk 4
U9585 Instruction Manual - Neon FT
U9587 S2 Chassis - Neon FT
U9588 S2 Topdeck - Neon FT
U9589 Front Bumper - Neon FT
U9590 S2 Steering Mount - Neon FT
U9591 S2 Front Shock Tower - Neon FT
U9592 S2 Rear Shock Tower - Neon FT
U9593 S2 LiPo Hook (pr) - Neon FT
U9594 S2 Topdeck Spacer (pr) - Neon FT
U9595 S2 Servo Mount - Neon FT
U9596 S2 Receiver Plate - Neon FT

Hardware

AX034 Aerox Handed Body Clips - Black (pk8)
CR024 CORE RC - Serrated M4 Steel Wheel Nut pk4
CR517 M3 Alloy Nyloc Nuts-Low Profile-Black pk10
CR801 CORE RC Double Sided Tape Pads 25mm x 20mm - pk24
U1633 SPEED PACK - Small Pins (pk)
U2153 Spacers and Pins - pin drive - SST (4 sets)
U2184 SPEED PACK - DiscSprings+DrivePins
U2947 SPEED PACK - M2.5 Washers (pk8)
U3021 SPEED PACK - M3x6 Csk Hd Screws- (pk10)
U3022 SPEED PACK - M3x8 Csk Hd Screws - (pk10)
U3023 SPEED PACK - M3x10 Csk Hd Screws - (pk10)
U3024 SPEED PACK - M3x12 Csk - M3 x 10 Button Screws
U3754 SPEED PACK - M2.5x10 Csk Hd Screws pk8
U4124 SPEED PACK - Shims 5 x 7 x 0.4mm - pk6
U4650 SPEED PACK - M3 Nyloc Nut Steel - Black (10pcs)
U4651 SPEED PACK M3x10 Grub Screws (10pcs)
U4835 SPEED PACK - M3 Steel Nut Black (pk8)
U4837 SPEED PACK M2.5x10 Cap Hd Screws (pk8)
U7102 SPEED PACK - M3x4 Button Hd Screws (pk10)
U7104 SPEED PACK - M3x8 Button Hd Screws (pk10)
U7105 SPEED PACK - M3x10 Button Hd Screws (pk10)
U7106 SPEED PACK - M3x12 Button Hd Screws (pk10)
U7107 SPEED PACK - M3x16 Button Hd Screws (pk10)
U7113 SPEED PACK - M3x10 Cap Hd Screws (pk10)
U7123 SPEED PACK - M3x16 Csk Hd Screws (pk10)

Hardware cont.

U7124 SPEED PACK - M3x20 Csk Hd Screws (pk10)
U7225 SPEED PACK M2 Steel Washer (pk10)
U7538 SPEED PACK M2x6 CSK Screws pk 10
U7545 Ultra Short Shock Shims (3.3x6.7x0.05)
U7677 SPEED PACK - M2.5x8 Csk Hd Screws (pk10)
U7689 M3 Brass Inserts - pk10
U7707 M3 Steel Washers (pk10)
U7743 M2.5x8 Button Screws (pk10)
U7751 M3x8 Grub Screw Dome End (pk4)
U7795 M3x2 Grub Screw (pk10)
U8133 6 x 1 'O'ring pk10 Mi7-8,Icon/2,E4-5,A3,FT8,Ne,Vb
U8168 5 x 1 `O`ring (pk10)
U8275 Plastic Washer Set 1,1.5,2,3,4mm (20 pcs)
U8345 O'Ring 5x1.5 Red (pk 10)
U8536 M3x4 Grub Screw Cup Point - (pk10)
U8898 M2.5 Thread Inserts (pk10)
U9038 SPEED PACK - M2.5x5 Button Hd (pk10)

Options

AM640002 64 Ti Screw Allen Csk M3 x 6 (5)
AM640003 64 Ti Screw Allen Csk M3 x 8 (5)
AM640004 64 Ti Screw Allen Csk M3 x 10 (5)
AM640005 64 Ti Screw Allen Csk M3 x 12 (5)
AM640007 64 Ti Screw Allen Csk M3 x 16 (5)
AM640030 64 Ti Screw Allen Round Head M3 x 4 - (5)
AM640033 64 Ti Screw Allen Round Head M3 x 8 (5)
AM640034 64 Ti Screw Allen Round Head M3 x 10 (5)
AM640035 64 Ti Screw Allen Round Head M3 x 12 (5)
AM640037 64 Ti Screw Allen Round Head M3 x 16 (5)
AX011 Aerox Alloy Servo Arm - Offset 25T Futaba
AX012 Aerox Alloy Servo Arm - Offset 23T KO/Sanwa
AX030 Aerox On-Road Alloy Servo Arm - Offset 23T Sanwa
AX031 Aerox On-Road Alloy Servo Arm - Offset 25T Futaba
AX062 AEROX HD Alloy Servo Arm - Short 25T Futaba
CR280 CORE RC Ti Pro Ball Studs - Short - (pr)
CR282 CORE RC Ti Pro Ball Studs - Long - (pr)
CR304 Titanium Wheel Nuts M4 - pk4
CR310 Alloy Csk Hex Screws M3x6 pk10
CR311 Alloy Csk Hex Screws M3x8 pk10
CR312 Alloy Csk Hex Screws M3x10 pk10
CR313 Alloy Csk Hex Screws M3x12 pk10
CR315 Alloy Button Head Hex Screws M3x8 pk10
CR316 Alloy Button Head Hex Screws M3x10 pk10
CR317 Alloy Button Head Hex Screws M3x12 pk10
CR320 Titanium Csk Hex Screws M3x6 pk10
CR321 Titanium Csk Hex Screws M3x8 pk10
CR322 Titanium Csk Hex Screws M3x10 pk10
CR328 Titanium Button Head Hex Screws M3x8 pk10
CR329 Titanium Button Head Hex Screws M3x10 pk10
CR330 Titanium Button Head Hex Screws M3x12 pk10
CR466 Alloy Offset Servo Arm 25T - Futaba
CR697 CORE RC Alloy Servo Arm Offset Short - 25T Futaba
CR698 CORE RC Alloy Servo Arm Offset Short - 23T SANWA
U2862 Ceramic Bearing - 5x10x4 Shield - (pr)
U3017 Ceramic Bearing - 10x15x4 - Shield - (pr)
U3386 Ceramic Bearing - 4x8x3 Shield - (pr)
U3525 Alloy Wheel Hex - Medium pr Mi4-Mi8,FT,FT8,Neon,Vb
U3570 Alloy Wheel Hex - Slim pr - Mi4-Mi8,FT,FT8,Neon
U3582 Precision Balance Pivot Set
U4314 SPEED PACK - Alloy Black M3 Washers - 18pc
U4328 Impact Servo Saver 23T/25T

NEON FT

SPARES LISTS

Options Cont.

U4329	Impact Servo Saver Mouldings
U4330	Impact Servo Saver Springs
U4725	Pro Ball Bearing - 5x10x4 Shield - (pr)
U4726	Pro Ball Bearing - 5x10x3 Shield - (pr)
U7313	Titanium Turnbuckle - 24mm - Silver - pr
U7314	Titanium Turnbuckle - 30mm
U7400	Titanium Low Profile M4 Serrated Nut (pk4)
U7536	Ultra Short Shock Piston 3H pr - Mi6/evo-Mi9,FT9
U7542	Ultra Short Alloy Spring Seat pr-Mi6-8,FT8,Neon,Vb
U7725	Pro-Ball Bearing 10x15x4 Sealed - (pr)
U7730	Pro-Ball Bearing 4x8x3 Sealed - (pr)
U7812	Alloy Hub Carrier (Black) pr - Mi7,Mi8,FT8,Vibe
U7827	Alloy LiPo Mount pr - Touring
U7828	Titanium Ball Stud Low (Ultra Short) (pk4)
U7830	Titanium Ball Stud Low (Long) (pk4)
U7837	C/F Upper Bumper - Touring
U7839	C/F LiPo Retainer Swivel pr
U7854	Alloy D/Joint D/Shaft Tube pr V2 -Mi7,8,FT-8,Ne,Vb
U8065	M3 Alloy Thread Insert pk8
U8258	Castor Gauge - Mi8,FT8,Neon (pr)
U8261	Alloy Shock Top Ball - Mi8,FT8,Mi9 (pr)
U8263	Alloy M3 Turnbuckle - 25mm - Black (pr)
U8323	C/F Lipo Hook pr - Mi8,FT8,Mi9,Neon,Vibe
U8333	Wheel Hex Spacers 0.25, 0.5, 0.75mm - (pk12)
U8334	Alloy LiPo Swivel - (pr)
U8709	Pro TC Alloy Impact Servo Saver
U8773	Brass Circular Weight 5g (pk4)
U8840	Alloy Layshaft Mount - Neon,Vibe
U8882	Alloy Transmission Housings (pr) - Neon,Vibe
U8889	S2 1mm Link Mount Spacer (pr) - Neon
U8890	Anti Roll Bar Set (pr) - Neon
U8891	Anti Roll Bar Wire Set (4pcs)- Neon
U8892	Alloy M3 Turnbuckle - 20mm Offset - Violet (pr)
U8893	Adjustable Upper Wishbone Set - Neon
U8903	Pro Ball Bearing 3/16x5/16x1/8 (pr)

Pinions

CR4826	Pinion Gear 48DP 26T (7075 Hard)
CR4827	Pinion Gear 48DP 27T (7075 Hard)
CR4828	Pinion Gear 48DP 28T (7075 Hard)
CR4829	Pinion Gear 48DP 29T (7075 Hard)
CR4830	Pinion Gear 48DP 30T (7075 Hard)
CR4831	Pinion Gear 48DP 31T (7075 Hard)
CR4832	Pinion Gear 48DP 32T (7075 Hard)
CR4833	Pinion Gear 48DP 33T (7075 Hard)
CR4834	Pinion Gear 48DP 34T (7075 Hard)
CR4835	Pinion Gear 48DP 35T (7075 Hard)
CR4836	Pinion Gear 48DP 36T (7075 Hard)
CR4837	Pinion Gear 48DP 37T (7075 Hard)
CR4838	Pinion Gear 48DP 38T (7075 Hard)
CR4839	Pinion Gear 48DP 39T (7075 Hard)
CR4840	Pinion Gear 48DP 40T (7075 Hard)
CR4841	Pinion Gear 48DP 41T (7075 Hard)
CR4842	Pinion Gear 48DP 42T (7075 Hard)
CR4843	Pinion Gear 48DP 43T (7075 Hard)
CR4844	Pinion Gear 48DP 44T (7075 Hard)
CR4845	Pinion Gear 48DP 45T (7075 Hard)
CR4846	Pinion Gear 48DP 46T (7075 Hard)
U3426	Pinion; Hard Alloy 48dp - 26T
U3427	Pinion; Hard Alloy 48dp - 27T

Pinions Cont.

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
U3433	Pinion; Hard Alloy 48dp - 33T
U3434	Pinion; Hard Alloy 48dp - 34T
U3435	Pinion; Hard Alloy 48dp - 35T
U3436	Pinion; Hard Alloy 48dp - 36T
U3437	Pinion; Hard Alloy 48dp - 37T
U3438	Pinion; Hard Alloy 48dp - 38T
U3439	Pinion; Hard alloy 48dp - 39T
U3440	Pinion; Hard Alloy 48dp - 40T
U4441	Pinion; Hard Alloy 48dp - 41T
U4442	Pinion; Hard Alloy 48dp - 42T
U4443	Pinion; Hard Alloy 48dp - 43T
U4444	Pinion; Hard Alloy 48dp - 44T
U4445	Pinion; Hard Alloy 48dp - 45T

Shock Absorber

U4557	Shock Seal Cap 1pr Mi5evo,Mi7,FT8-9,Mi9-10,Neon,Vb
U7463	Ultra Short Shock O Ring pk4 Mi6-10,FT8-9,Neon,Vb
U7530	Ultra Short Shock Diaphragm pk4 Mi6-8,FT8,Neon,Vb
U7533	Ultra Short Shock Collar O Ring pr Mi6-8,FT8,Neon
U7537	Ultra Short Shock Piston 4H Mi6-10,FT8/9,Neon,Vb
U7561	Ultra Short Shock Spring Seat (pr)
U7782	Ultra Short Shock Rebuild Kit
U8831	Shock Body (pr) - Neon,Vibe
U8832	Shock Top (pr) - Neon,Vibe
U8838	Shock Shaft (pr) - Neon,Vibe
U8884	Shock Collar (pr) - Neon

Springs

CR840	CORE RC Hi Response TC Spring 1.9 - White
CR841	CORE RC Hi Response TC Spring 2.1 - Red
CR842	CORE RC Hi Response TC Spring 2.3 - Green
CR843	CORE RC Hi Response TC Spring 2.5 - Blue
CR844	CORE RC Hi Response TC Spring 2.6 - Black
CR845	CORE RC Hi Response TC Spring 2.7 - Orange
CR846	CORE RC Hi Response TC Spring 2.8 - Yellow
CR847	CORE RC Hi Response TC Spring 2.9 - Purple
CR848	CORE RC Hi Response TC Spring 2.2-2.9 Brown
CR849	CORE RC Hi Response TC Spring 3.1 - Grey
CR850	CORE RC Hi Response TC Spring 3.3 - Pink
CR851	CORE RC Hi Response TC Spring 3.5 - Grn/Yellow
CR852	CORE RC Hi Response TC Spring Set - Soft
CR853	CORE RC Hi Response TC Spring Set - Med
CR854	CORE RC Hi Response TC Spring Set - Hard

Spur Gears

AM348069	Spur Gear 48P - 69T
AM348070	Spur Gear 48P - 70T
AM348071	Spur Gear 48P - 71T
AM348072	Spur Gear 48P - 72T
AM348073	Spur Gear 48P - 73T
AM348074	Spur Gear 48P - 74T
AM348075	Spur Gear 48P - 75T
AM348078	Spur Gear 48P - 78T
AM348081	Spur Gear 48P - 81T

NEON FT

SPARES LISTS

Spur Gears Cont.

AM348082	Spur Gear 48P - 82T
AM348083	Spur Gear 48P - 83T
AM348084	Spur Gear 48P - 84T
AM348085	Spur Gear 48P - 85T

Suspension

U3496	Ball Studs; Short - pk 4
U3497	Ball Studs; Long - pk 4
U4221	Turnbuckle Adjuster HTT - 24mm - pr
U4274	Pro Ball Stud Short - pk4
U4275	Pro Ball Stud Long - pk4
U4297	Turnbuckle HT - 30mm - pr
U4501	Steering Pivots - K1 Aero,L1,FT
U4707	Short Ball Grippa - Grey (pk8)
U4741	6mm Offset Servo Arms
U4775	Pivot Ball 5.5mm - (4pcs)
U7733	Hub Carriers pr - Mi7,Mi8,FT8,Vibe
U7738	Radius Arms pr - Mi7,FT,Mi8,FT8,Mi9,Mi10,Vibe
U7832	Ball Stud Low (Ultra Short) (pk4)
U7834	Ball Stud Low (Long) (pk4)
U8166	5.5mm Pivot Ball Socket pk8 - Mi7,Mi8,FT8,Neon,Vb
U8321	Ball Sockets Pro - Grey (pk8)
U8829	S2 FR Upper Wishbone 1.5deg - Neon
U8830	S2 RR Upper Wishbone 2.5deg - Neon
U8837	Lower Shock Mount (pr) - Neon,Vibe
U8844	S2 FL Lower Wishbone - Neon
U8845	S2 FR Lower Wishbone - Neon
U8851	S2 Steering Arm (pr) - Neon
U8852	S2 Rear Toe Arm (pr) - Neon
U8854	S2 RL Lower Wishbone - Neon
U8855	S2 RR Lower Wishbone - Neon
U8883	S2 LH Rear Upper Wishbone 2.5deg - Neon
U8888	S2 LH Front Upper Wishbone 1.5deg - Neon
U8900	Outer Wishbone Pivot Ball (pr) - Neon
U9100	Outer Wishbone Ball and Socket (pk4) - Vibe TC
U9586	S2 Radius Arm - Neon FT

Transmission

U4260	Gear Diff Housings - Mi5/evo,Neon
U4261	Gear Diff Bevel Gears - Mi5/evo,Mi6/evo,Neon,Vibe
U4279	Gear Diff Rebuild Kit - Mi5/evo,Mi6/evo,Neon,Vibe
U7754	Double Joint D/Shaft Pins,Pivots V3-Mi7,8,FT-8,Vb
U7756	Double Joint D/Shaft Axle V2 - Mi7-8,FT,FT8,Neo,Vb
U7757	Double Joint Driveshaft Tube V2 - Mi7-8,FT-8,Neon
U7785	Diff End Float Shim 0.10mm (pk10)
U7786	Gear Diff Rebuild Kit - Mi7,Mi8,FT8
U8262	Belt 119T - Mi8,Mi9,Mi10
U8561	Rear Axle (pr) - FT8
U8824	Double Joint Driveshaft (pr) - Neon
U8825	Double Joint Driveshaft Bone - Neon
U8833	Eccentric (pr) - Neon,Vibe
U8834	Layshaft Mount & Pulley Set - Neon,Vibe
U8841	Driveshaft Bone Pin (pr) - Neon
U8886	Wheel Hex (pr) - Neon,Vibe
U8887	Diff Output (pr) - Neon,Vibe
U9040	Layshaft Pulley Set - FT9
U9345	SPEED PACK - O-Ring 26 x1.2 (pk4)
U9438	Layshaft - FT9,Vibe FT

NEON FT

Option Parts

U8261 - *Alloy Hub Carrier - Mi8*

U3525 - *Alloy Wheel Hex: Medium (pr)*

U7854 - *Alloy Double Joint Driveshaft Tube pr*
Lightweight Option

U7827 - *Alloy LiPo Mount (pr)*

U8709 - *Pro TC Servo Saver*

CR304 -
Titanium Wheel Nuts M4 - pk4
Lightweight Option

U7839 - *C/F LiPo Swivel (pr)*

U9392 - *Alloy Link Mount Conversion (pr)*

NEON FT

Option Parts

U8882 - *Alloy Transmission Housings (pr) - Neon*

U8893 - *Adjustable Upper Wishbone Set - Neon*

U8890 - *ARB Set (pr) - Neon*

U8256 - *Alloy T Brace*

U3582 - *Precision Balance Pivot*

U8840 - *Alloy Layshaft Mount - Neon*

NEON FT

Driver: Kit Build | Track: | Event:

Date: | Qualifying: | Final: | Best Lap:

TRACK TYPE

Grip Level	High ☐ Medium ■ Low ☐
Type	Tight ☐ Open ☐ Mixed ■
Condition	Flat ☐ Bumpy ☐ Mixed ■
Surface	Tarmac(asphalt) ☐ Carpet ■
Track Temp	°C
Weather	

TYRES

Tyres	
Cleaner	
Additive	

Additive Time	Front:	mins	Rear:	mins
Heating Time	Front:	mins	Rear:	mins
Heating Temp	Front:	°C	Rear:	°C

Notes:

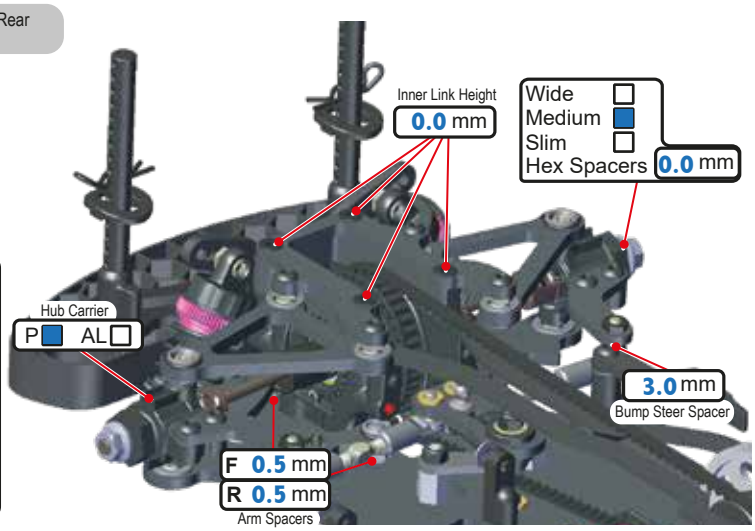
Future Changes:

FRONT

KEY: **CF** = Carbon Fibre, **AL** = Aluminium, **P** = Plastic, **F** = Front, **R** = Rear
H = High, **L** = Low, **Y** = Yes, **N** = No, **V** = Vertical, **H** = Horizontal

Ride Height	5.1 mm
Camber	1.5 deg
Droop	22.0 mm
Toe	1.0 deg
Anti Roll Bar	1.0 ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐
Diff Height	H ☐ L ■
Option Upper Arm	Y ☐ N ■
Servo Horn Height	16 mm Saver ☐
Steering Travel	25 in out
Differential Oil	300K cSt
Bumper Weight	60 g

Shock Mount Position



REAR

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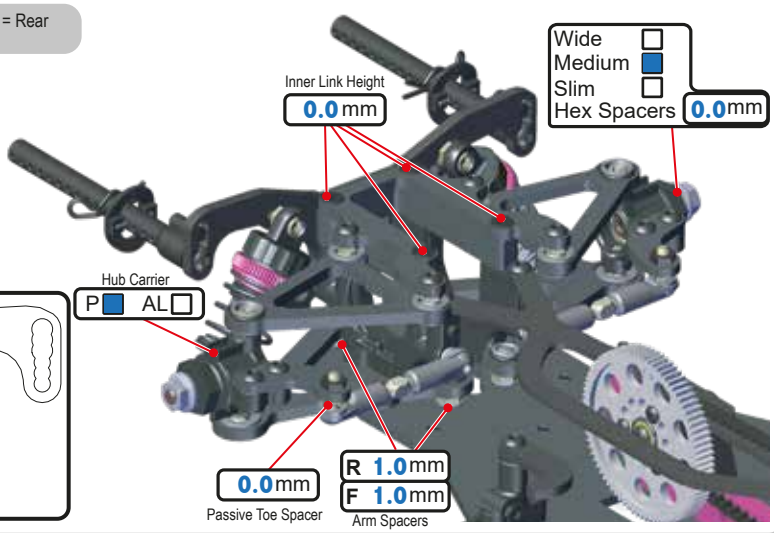
H = High, **L** = Low, **Y** = Yes, **N** = No, **V** = Vertical, **H** = Horizontal

Ride Height	5.3 mm
Camber	2.5 deg
Droop	21.6 mm
Toe	1.5 deg
Anti Roll Bar	1.0 ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐
Flipped Toe plate	Yes ☐ No ■

Notes:

Shock Mount Position



BODYSHELL

Body	
Wing	
Wing Height	mm
Front Height	mm
Body Weight	g
Body Offset Fwrd	mm
Wing Offset Rwrd	mm

Notes:

CHASSIS

T Brace	Y ☐ N ■
Motor Mount Screws	1 ■ 2 ■ 3 ■ (Rear … Front)
Total Weight	g
Weight Bias	%R

Notes:

ELECTRONICS

E.S.C.	
Servo	
RX	
LiPo	
Motor	
Rotor Dia.	mm
Timing	deg
Pinion	t
Spur	81 t
Ratio	

SHOCKS

KEY: **x** = Stroke, **e** = external
V = Vented (Drilled), **S** = Sealed

	FRONT	REAR
Cap Type	V ☐ S ■	V ☐ S ■
Oil	350 cSt	350 cSt
Piston	1.1mm 4 Hole	1.1mm 4 Hole
Spring	2.5N/mm Blue	2.6N/mm Black
Length (x)	11 mm	11 mm
Rebound	mm	mm
Limiters (e)	mm	mm

Notes:

NEON FT

Driver: Test Driver | Track: | Event:

Date: | Qualifying: | Final: | Best Lap:

TRACK TYPE

Grip Level	High ☐ Medium ■ Low ☐
Type	Tight ☐ Open ☐ Mixed ■
Condition	Flat ■ Bumpy ☐ Mixed ☐
Surface	Tarmac(asphalt) ☐ Carpet ■
Track Temp	°C
Weather	

TYRES

Tyres	Rush 28F 24R
Cleaner	CR333
Additive	MR33V5

Additive Time	Front: 15 mins	Rear: 15 mins
Heating Time	Front: mins	Rear: mins
Heating Temp	Front: °C	Rear: °C

Notes:

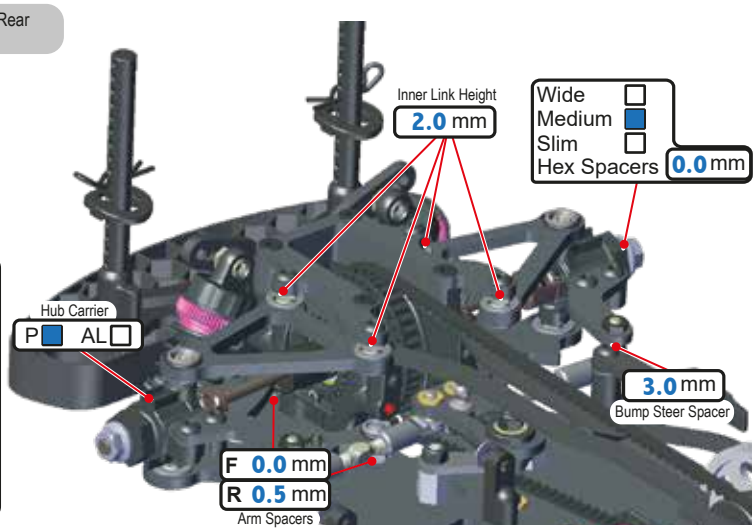
Future Changes:

FRONT

KEY: **CF** = Carbon Fibre, **AL** = Aluminium, **P** = Plastic, **F** = Front, **R** = Rear
H = High, **L** = Low, **Y** = Yes, **N** = No, **V** = Vertical, **H** = Horizontal

Ride Height	5.1 mm
Camber	1.5 deg
Droop	22.0 mm
Toe	1.5 deg
Anti Roll Bar	1.0 ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐
Diff Height	H ■ L ☐
Option Upper Arm	Y ☐ N ■
Servo Horn Height	16 mm Saver ■
Steering Travel	25 in out
Differential Oil	300K cSt
Bumper Weight	g

Shock Mount Position



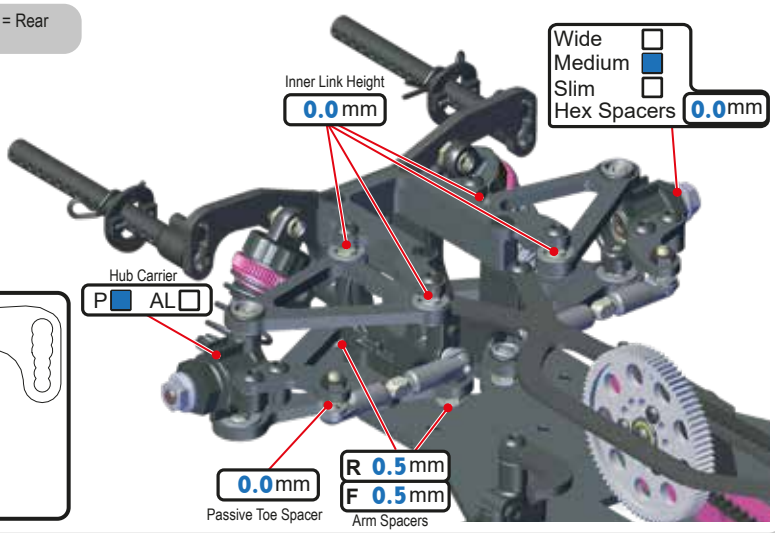
REAR

KEY: **CF** = Carbon Fibre, **AL** = Aluminium, **P** = Plastic, **F** = Front, **R** = Rear
H = High, **L** = Low, **Y** = Yes, **N** = No, **V** = Vertical, **H** = Horizontal

Ride Height	5.2 mm
Camber	2.5 deg
Droop	21.4 mm
Toe	2.2 deg
Anti Roll Bar	1.0 ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐
Flipped Toe plate	Yes ☐ No ■

Notes:

Shock Mount Position



BODYSHELL

Body	MonTech Civic
Wing	Standard
Wing Height	110 mm
Front Height	7.0 mm
Body Weight	g
Body Offset Fwrd	mm
Wing Offset Rwrd	mm

Notes:

CHASSIS

T Brace	Y ☐ N ■
Motor Mount Screws	1 ■ 2 ■ 3 ■ (Rear … Front)
Total Weight	g
Weight Bias	%R

Notes:

ELECTRONICS

E.S.C.	HW30112005
Servo	AX066
RX	Sanwa
LiPo	Aerox 4600mah
Motor	SK-400034-04
Rotor Dia.	Standard mm
Timing	48 deg
Pinion	33 t
Spur	81 t
Ratio	4.01

SHOCKS

KEY: **x** = Stroke, **e** = external
V = Vented (Drilled), **S** = Sealed

	FRONT	REAR
Cap Type	V ☐ S ■	V ☐ S ■
Oil	350 cSt	350 cSt
Piston	1.1mm 4 Hole	1.1mm 4 Hole
Spring	2.9N/mm Purple	2.5N/mm Blue
Length (x)	10 mm	10 mm
Rebound	mm	mm
Limiters (e)	mm	mm

Notes:

SET-UP SHEET

NEON FT

Driver:	Track:	Event:	
Date:	Qualifying:	Final:	Best Lap:

TRACK TYPE

Grip Level	High ☐ Medium ☐ Low ☐
Type	Tight ☐ Open ☐ Mixed ☐
Condition	Flat ☐ Bumpy ☐ Mixed ☐
Surface	Tarmac(asphalt) ☐ Carpet ☐
Track Temp	°C
Weather	

TYRES

Tyres	
Cleaner	
Additive	

Additive Time	Front:	mins	Rear:	mins
Heating Time	Front:	mins	Rear:	mins
Heating Temp	Front:	°C	Rear:	°C

Notes:

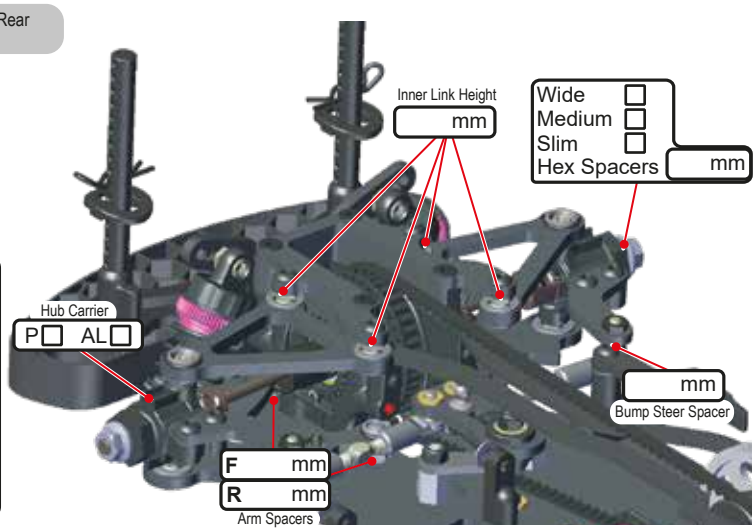
Future Changes:

FRONT

KEY: **CF** = Carbon Fibre, **AL** = Aluminium, **P** = Plastic, **F** = Front, **R** = Rear
H = High, **L** = Low, **Y** = Yes, **N** = No, **V** = Vertical, **H** = Horizontal

Ride Height	mm
Camber	deg
Droop	mm
Toe	deg
Anti Roll Bar	1.0 ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐
Diff Height	H ☐ L ☐
Option Upper Arm	Y ☐ N ☐
Servo Horn Height	mm Saver ☐
Steering Travel	in out
Differential Oil	cSt
Bumper Weight	g

Shock Mount Position



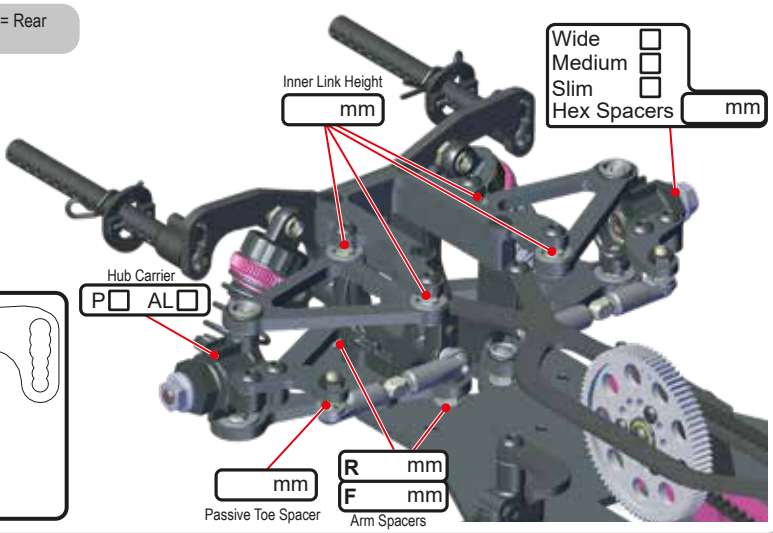
REAR

KEY: **CF** = Carbon Fibre, **AL** = Aluminium, **P** = Plastic, **F** = Front, **R** = Rear
H = High, **L** = Low, **Y** = Yes, **N** = No, **V** = Vertical, **H** = Horizontal

Ride Height	mm
Camber	deg
Droop	mm
Toe	deg
Anti Roll Bar	1.0 ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐
Flipped Toe plate	Yes ☐ No ☐

Notes:

Shock Mount Position



BODYSHELL

Body	
Wing	
Wing Height	mm
Front Height	mm
Body Weight	g
Body Offset Fwrd	mm
Wing Offset Rwrd	mm

Notes:

CHASSIS

T Brace	Y ☐ N ☐
Motor Mount Screws	1 2 3
Rear ☐ ☐ ☐ Front	
Total Weight	g
Weight Bias	%R

Notes:

ELECTRONICS

E.S.C.	
Servo	
RX	
LiPo	
Motor	
Rotor Dia.	mm
Timing	deg
Pinion	t
Spur	t
Ratio	

SHOCKS

KEY: **x** = Stroke, **e** = external
V = Vented (Drilled), **S** = Sealed

	FRONT	REAR
Cap Type	V ☐ S ☐	V ☐ S ☐
Oil	cSt	cSt
Piston		
Spring		
Length (x)	mm	mm
Rebound	mm	mm
Limiters (e)	mm	mm

Notes: