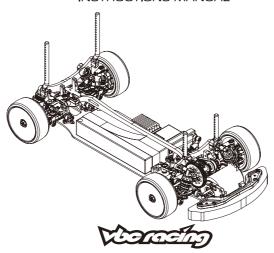
COMPETITION GRADE HIGH PERFORMANCE RADIO CONTROL RACING CAR CHASSIS KIT



INSTRUCTIONS MANUAL





Thank you for purchasing VBC Racing product.

Things that we should remind you.

This VBC Racing kit is a high performance, racing grade car kit intended for experienced racers. The kit compose of VBC formulated composite materials, top quality full carbon fiber chassis and high grade 7075 material which will give you a competitive edge over the others.

Novice racer should seek advice from more experienced racer

before assembly.

Always keep this instruction manual handy at all times for quick reference even after completing the assembly.

Before your assembly, sand the chassis edges.

Sand the chassis edges with #600 sand paper and apply CA glue to the edges and counter sink holes.

Need help or support.

If you need help or you would like to leave us a comment, please email to our support team: support@vbc-racing.com or visit our web site www.vbcracing.com









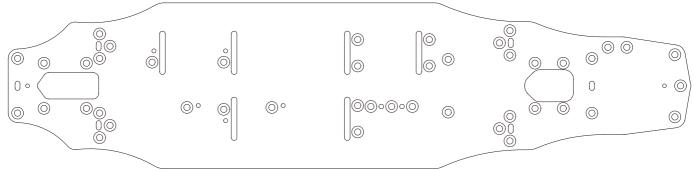


Graphite Edges Protection Procedure

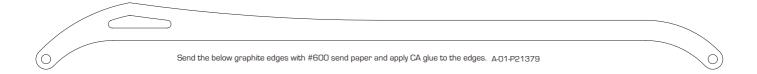


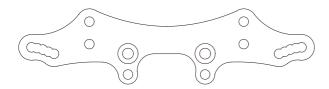
Send the chassis edgess with #600 send paper (not included) and apply CA glue (not included) to the edgess of the chassis.

*Not included in this kit

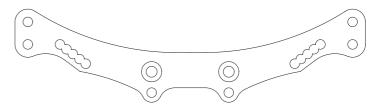


FF18 Main Chassis 21654





Graphite Front Shock Tower 21655



Graphite Rear Shock Tower 21656

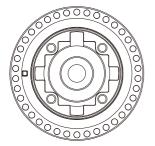
STEP1

vbc racing

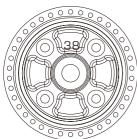
Lightweight Diff Ourdrive



Rear Gear Diff Assembly



Gear Diff Housing A-03-VBC-0016 x 1



Gear Diff Pully 38T A-03-VBC-0017 x 1





Diff Gear A-03-VBC-0019 x 2



Lightweight Gear Differential Cup BO2-P30888 x 2



10 x 15 Ba**ll** Bearing C-02-BB-1510-P x 2



15 x 0.3 Shim B-02-VBC-0077 x 2



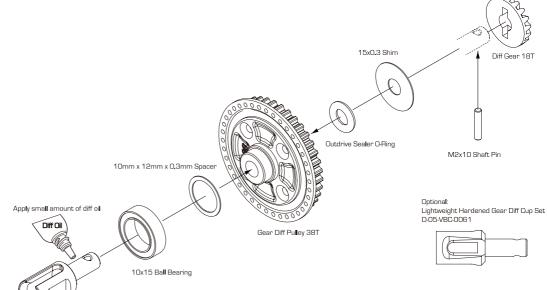
M2 x 10 Shaft Pin B-02-VBC-0020 x 2



Diff Shaft Sealer O-Ring B-03-VBC-0006 x 2



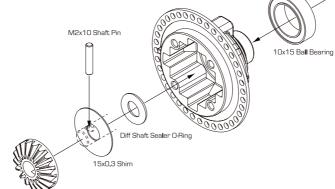
10mm x 12mm x 0.3mm Spacer C-02-P30914 x 1



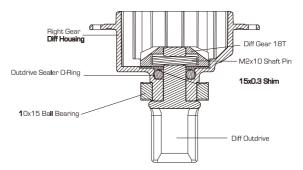
Apply small amount of diff oil Diff Oil



Lightweight Diff Ourdrive



Diff Gear 18T



Rear Gear Diff Right Side Assembly Cross Section



vbc racing



Rear Gear Diff Assembly Continue





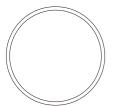
Diff Gear 10T A-03-VBC-0018 x 4



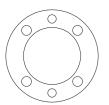
9.5x0.2mm Shim B-02-VBC-0078 x 4



M2.6x10 Flathead Screw C-02-SC-F2.6x10 x 4



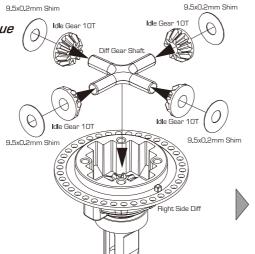
Diff Housing Sealer O-Ring B-03-VBC-0005 x 1



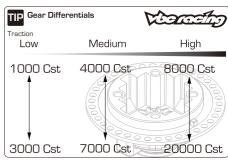
Seal Gasket B-03-VBC-0004 x 1

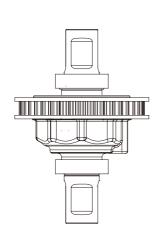


Diff Gear Shaft A-03-VBC-0020 x 1

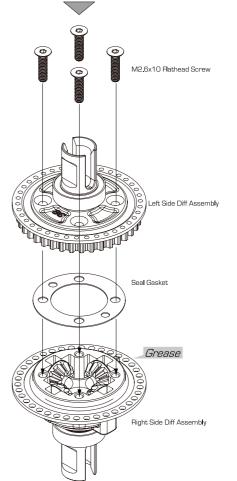














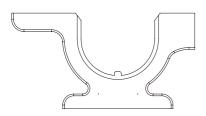
BAG MARKED

STEP2



3

Front Bulkhead And Center Suspension Mount Assembly



31555 WildFireD09 Bulkhead(Red) x 2



AO1G3O935 Center Suspension Mount Shim (0.5mm) x 4



C-02-SC-F0306 M3x6 Flathead x 20





31619 Split Mount CO(Black) x 4

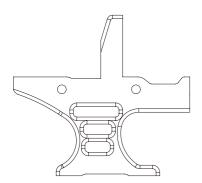




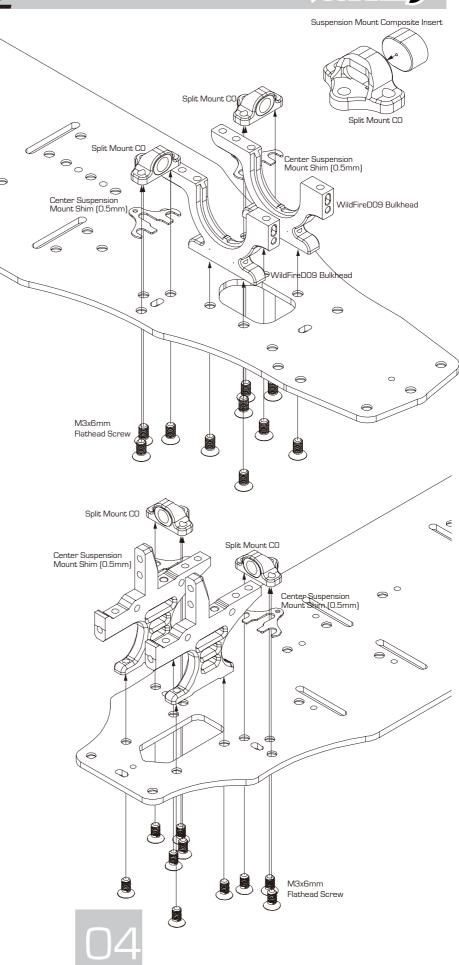
Suspension Mount Composite Insert 1 303110424 x 4



Rear Bulkhead And Center Suspension Mount Assembly



FF18 Rear Bulkhead B02P21664 x 2







Steering System Assembly



4.9mm Ball stud 6mm Thread 31517 X 2



5x8 Ball Bearing C-02-BB-0805-B x 4



3x6 Ball Bearing C-02-BB-0603 x 2



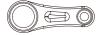
4.9mm Ball stud 8mm Thread 31518 X 1



D09 POM Steering Stopper A-03-P31176 x 1



D09 Steering Bridge B-02-P31171 x 1



D09 Steering Arm B-02-P31172 x 2



M3x6 Roundhead C-02-SC-R0306 x 4



M3x42mm Turnbuckle 31642 x 2



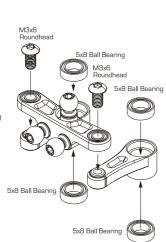
Ball Connector (Long) 31478 X 4

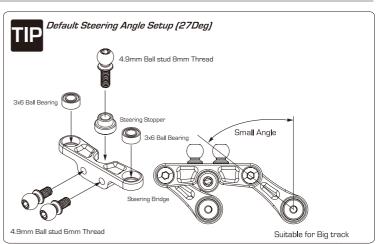


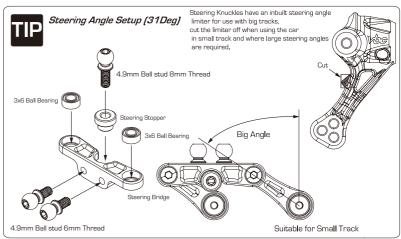
M3x6 Flathead Screw C-02-SC-F0306 x 2

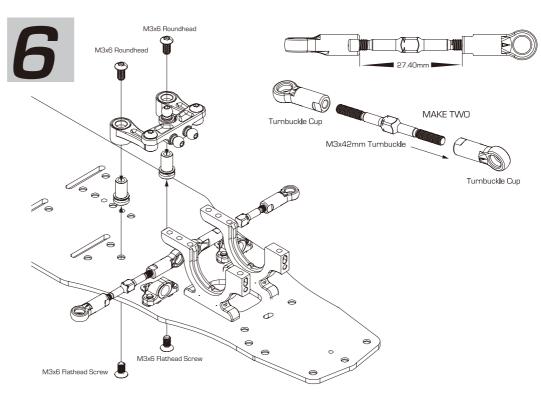


D09 Steering Chassis Mounted Post B02G31338 x 2



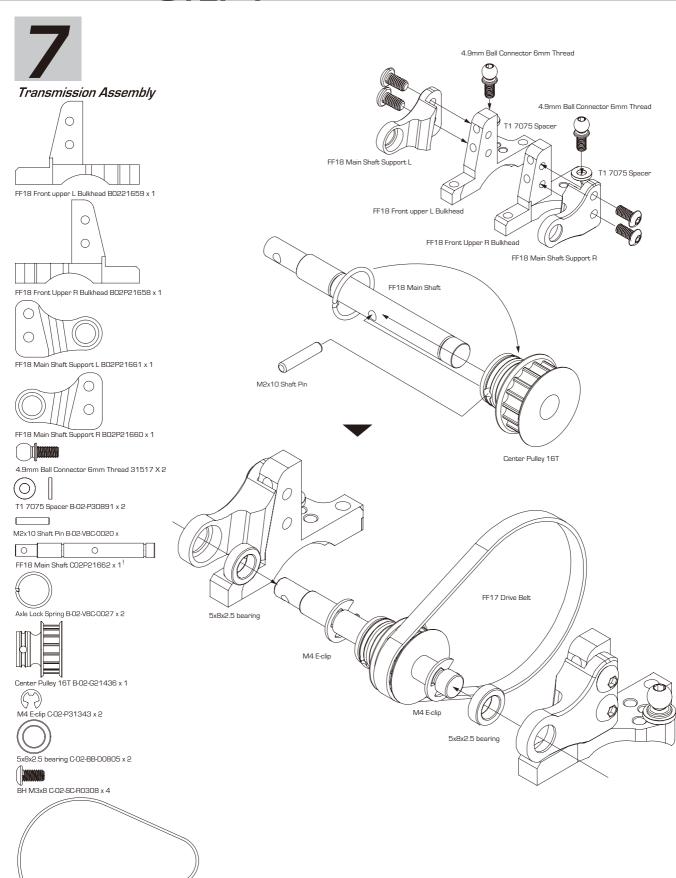












FF17 Drive Belt B-03-VBC-2018 x 1 © VBC Racing FF18





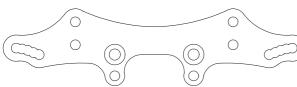
Front Damper Stay Assembly



M3x8 Roundhead C-02-SC-R0308 x 5



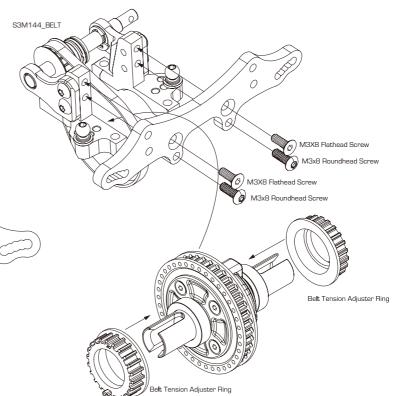
M3X8 Flathead Screw C-02-SC-F0308 x 2

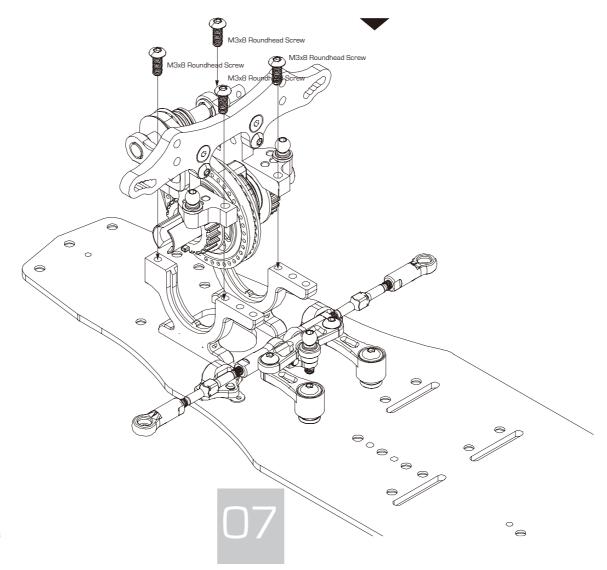


FF18 Front Shock Tower AO1P21655 x 1

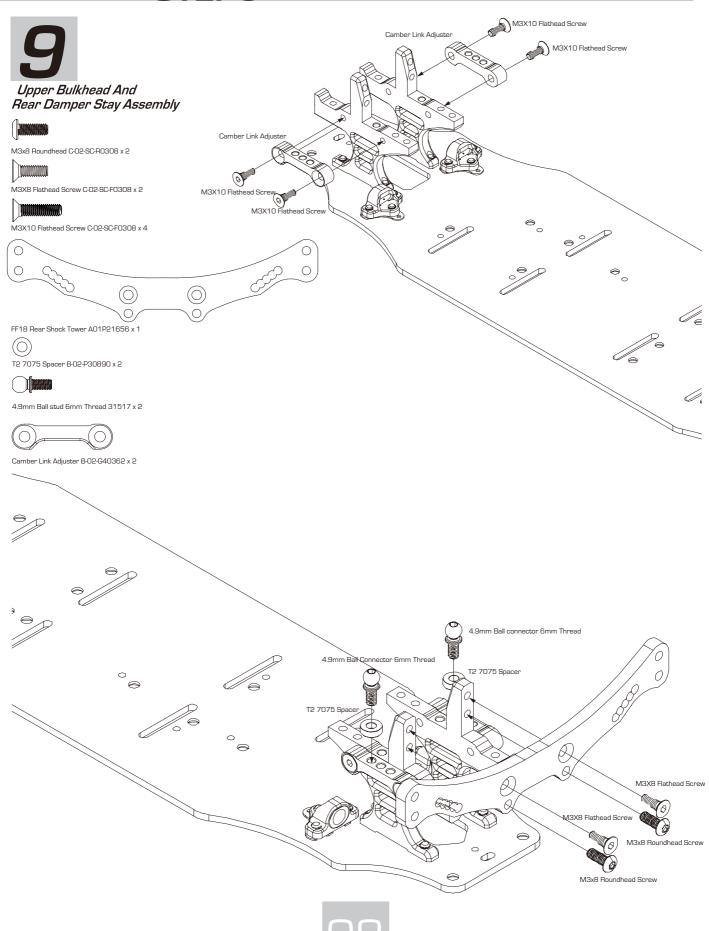


Belt Tension Adjuster Ring A-03-VBC-0047 x 2









STEP6





Rear Suspension Arm Assembly

M3x10 Set Screw C-02-SC-SS-310 x 2

M4x10 Set Screw C-02-SC-SS-410 x 2



4.9mm Ball stud 6mm Thread 31517 X 2



Ball Connector B-02-VBC-0045 x 2



Arm Pin Pivot Ball B-02-VBC-0035 x 4



M3X6 flat head C-02-SC-F0306 x 2



T1 7075 Spacer B-02-P30891 x 4

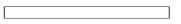


T2 7075 Spacer B-02-P30890 x 2





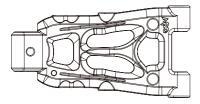
Suspension Mount Composite Insert 1 303110424 x 2



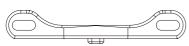
Suspension Arm Pin B-02-VBC-0029 x 2



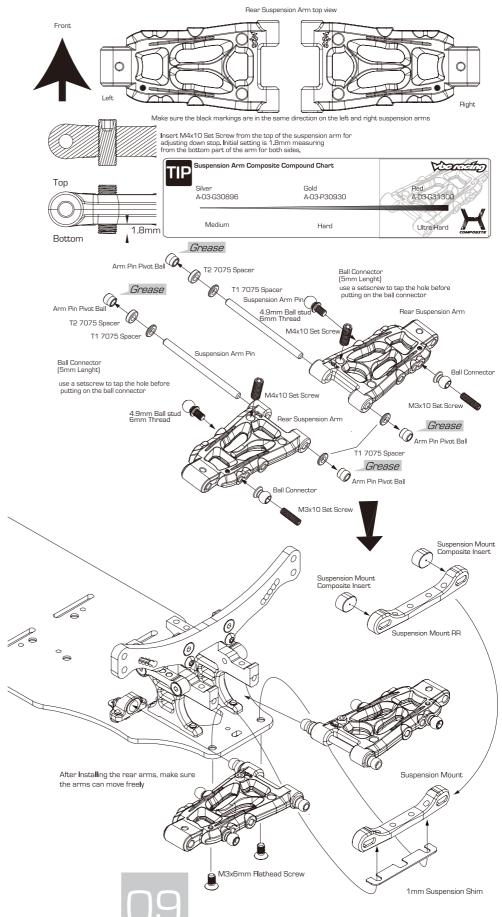
0.5mm Suspension Shim A01G30938 x 1



R suspension Arm Composite X silver A-03-P30898 x 2 $^{\circ}$



Suspension Mount RR[Black] 31632 x 1





11

Rear Suspension Arm Assembly



R 2-hole Upright Composite X Sliver A-03-P31327 x 2



Rear Wheel Axle B-02-VBC-2027 x 2



5x10mm Ball Bearings C-02-BB-1005-B x 4



Ball Connetor 8mm 31518 x 2



T2 7075 Spacer B-02-P30890 x 2



Lightweight O Offset Hex Wheel Hub B-02-P30887 x 2



M3x3 Set Screw C-02-SC-SS-0303 x 2

MAMAM

3x6 set screw C-02-SC-SS-0306 x 2



M2x10 Shaft Pin B-02-VBC-0020 x 2



M3x23 Upright Pin B-02-VBC-0032 x 2



M3x5x0.3mm shim B-02-VBC0101 x 2

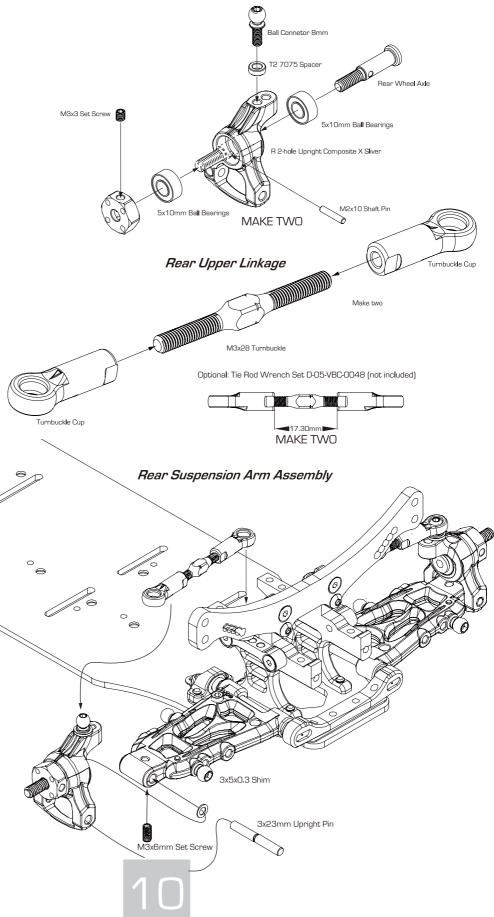


Ball Connector (Long) 31478 x 4



M3x28mm Turnbuckle (Black) 31630 x 2

Rear Suspension Upright Assembly





12

Front Suspension Arm Assembly



Ball Connector 8mm 31518 x 2



Turnbuckle Cup Open Type S A-03-VBC-0040 x 2



T1 7075 Spacer B-02-P30891 x 4



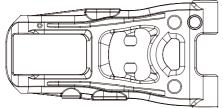
T2 7075 Spacer B-02-P30890 x 2



Arm Pin Pivot Ball B-02-VBC-0035 x 4







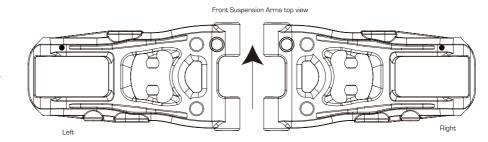




M3x10 Set Screw C-02-SC-SS-0310x 2

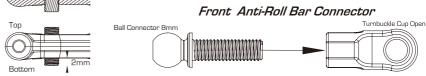


M4x10 Set Screw C-02-SC-SS-0410 x 2



Make sure the black markings are in the same direction on the left and right suspension arms





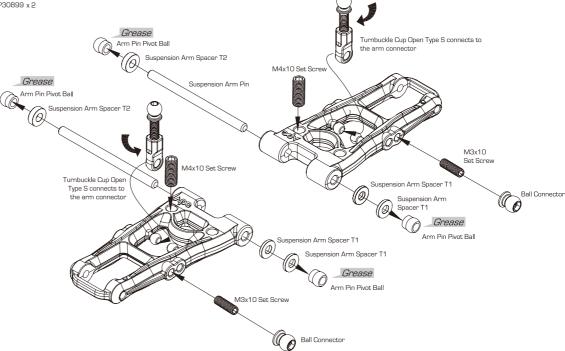
Insert M4x10 set screw from the top of the suspension arm for adjusting down stop. Initial setting is 2mm measuring from the bottom part pf the arm for both sides.

Ball Connector 8mm

Turnbuckle Cup Open

Ball Connector 8mm

MAKE TWO







Front Suspension Arm Assembly



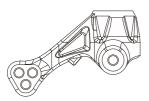
Suspension Mount FF (Black) 31633 x 1



0.5mm Suspension Shim A01G30938 x 1



M3x6 Flat Head Screw C-02-SC-F0306 x 2



Steering Block Composite X Sliver A-03-P30898 x 2



Inner Axle B-02-VBC-0024 x 2



Wheel Axle B-02-VBC-0025 x 2



Axle Joint B-02-VBC-0026 x 2



Axle Lock Spring B-02-VBC-0027 x 2



5x10mm Ball Bearing C-02-BB-1005-B x 4







Shaft End Shoe A-03-VBC-0038 x 2



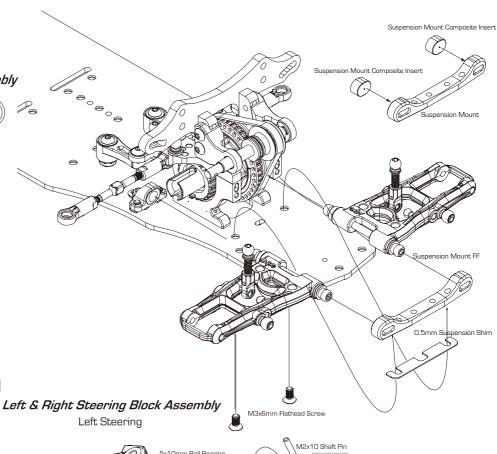
M3x2 Set Screw C-02-SC-SS-0302 x 2

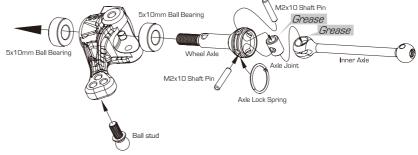


Lightweight O Offset Hex Wheel Hub B-02-P30887 x 2

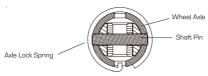


M3x3 Set Screw C-02-SC-SS-0303 x 2





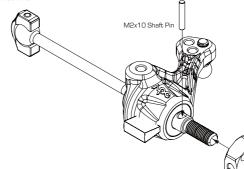
Joint cross section



Make sure the Axle Lock Spring is place correctly onto the Wheel Axle



Suspension Mount Composite Insert 1 A03G30311 x 2





Lightweight O Offset Hex Wheel Hub

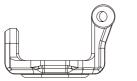
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STEP6

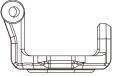


13

Front Suspension Arm Assembly



R C-Hub Composite X Sliver A-03-P30900 x 1



L C-Hub Composite X Sliver A-03-P30901x 1



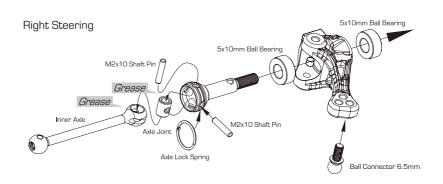
Steering Swivel Tube B-02-VBC-0033 x 4

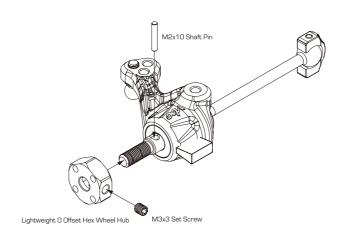


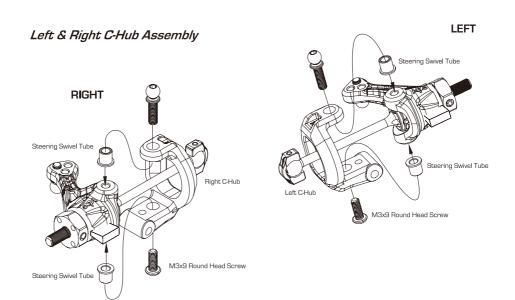
Ball Connector 6.5mm 31517 x 2



M3x9 Round Head Screw C-02-SC-R0308 x 2

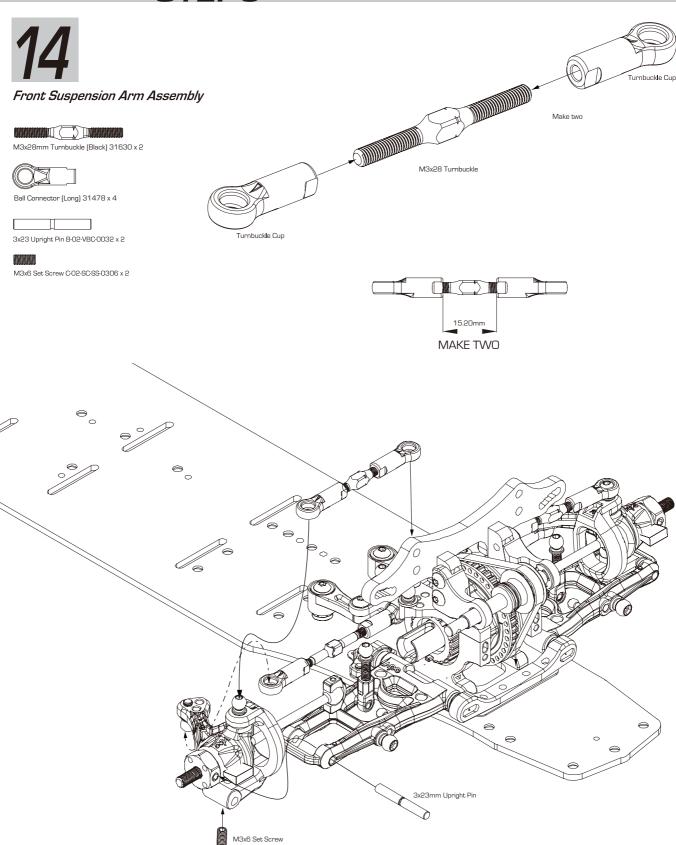






Please note the 'L'(Left) and 'R'(Right) markings on C-Hubs





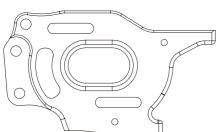
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STEP7

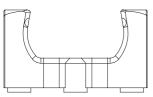
vbc racing



Motor Mount Assembly



FF18 Motor Mount B02P21670 x 1



Alum Front Bumper Mount B-02-VBC-2031 x 1



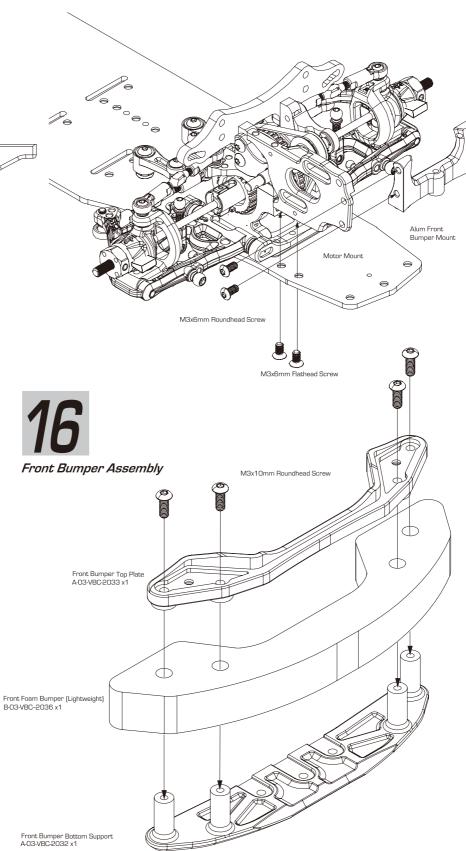
M3x6 Flathead C-02-SC-F0306 x 2



M3x6 Roundhead C-02-SC-R0306 x 2



M3x10 Roundhead C-02-SC-R0310 x 4



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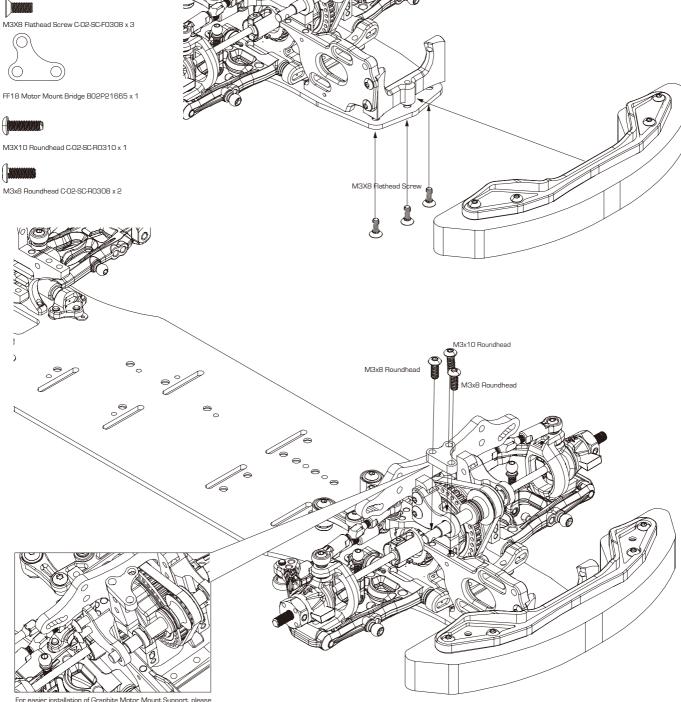
Front Bumper Assembly











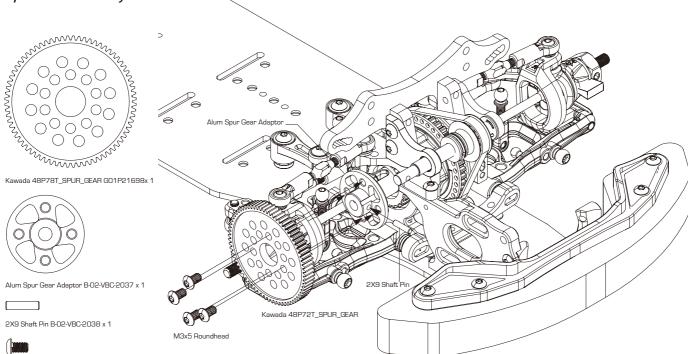
For easier installation of Graphite Motor Mount Support, please remove Right Bulkhead Top A to allow more clearance for tool.

STEP8



17

Spur Gear Assembly



M3x5 Roundhead C-02-SC-R03005 x 4

STEP9





Servo Assembly



M3x6x0.3mm shim B-02-VBC-5093 x 3



M3x28 Turnbuckle (Black) 31630 x 1



Ball Connector for Servo 31481 x 1



Ball Connector (Long) 31478 x 1



4.9mm Ball stud 6mm Thread 31517 x 1



M3X6 Flat head C-02-SC-F0306 x 3



M3x8 Roundhead C-02-SC-R0308 x 3



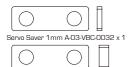
M3x6 Roundhead C-02-SC-R0306 x 1



Servo Horn Type F (Futaba) A-03-VBC-0053 x 1



Servo Horn Type A [Sanwa/KO]

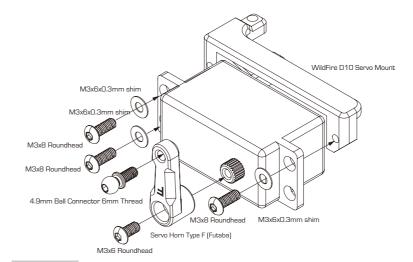


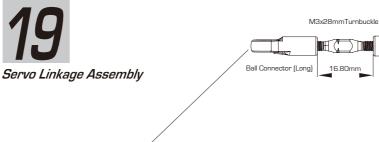
Servo Saver Spaer 2mm A-03-VBC-0033 x 1

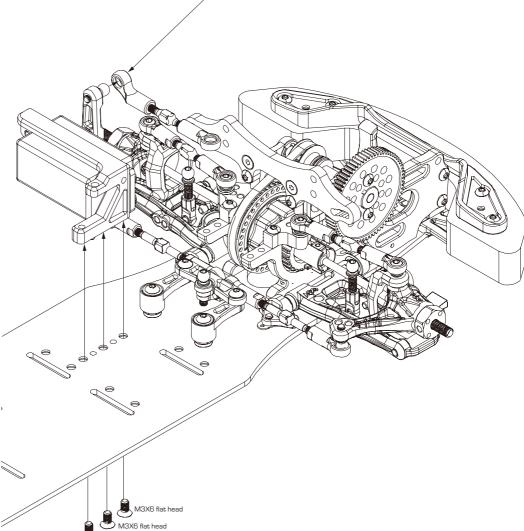


WildFire D10 Servo Mount 31563 x 1

© VBC Racing FF18











Front And Rear Stabilizer Mount Assembly



VBC Dynamic Stabilizer Connector B02G31134 x 2

Set screw M3x3 C-02-SC-SS-0303 x 4



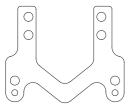
Plastic Front Stablizer Mount A-03-VBC02051 x 2



Ball connector (Short) 31479 x 2



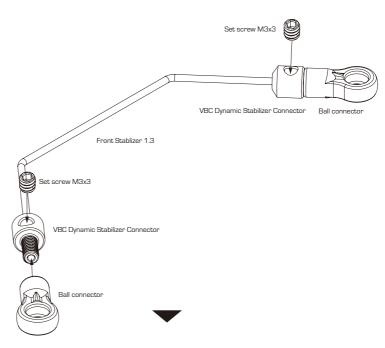
M3x6 Roundhead C-02-SC-R0306 x 2

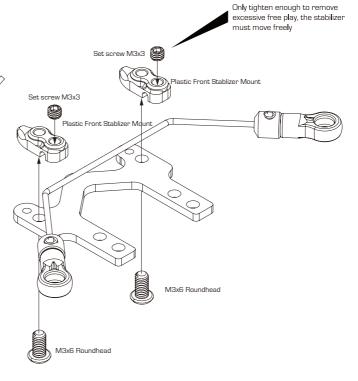


FF18 Front Sway Bar Mount A01P21657 x 1

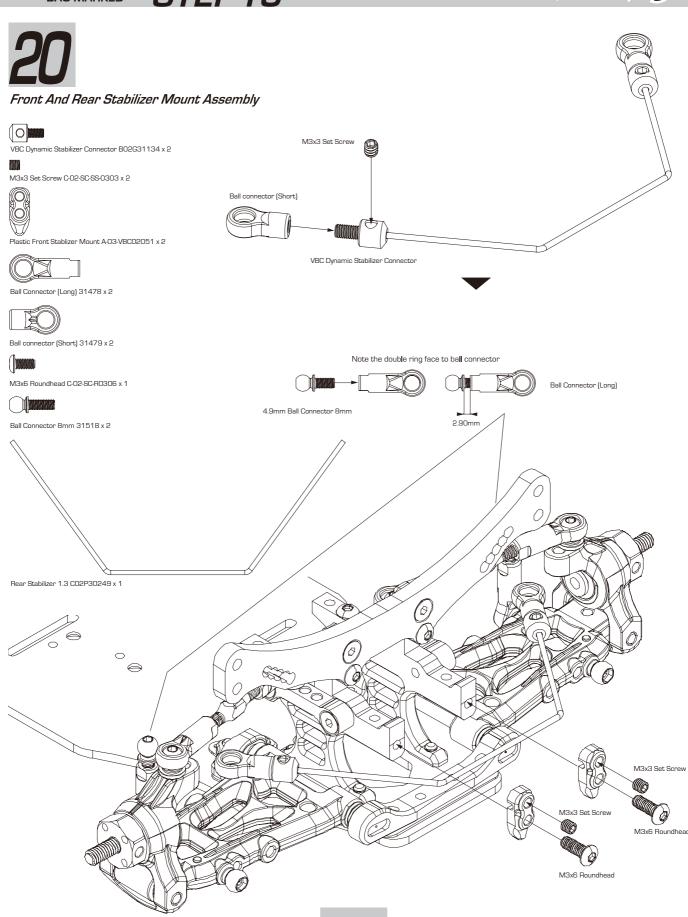


Front Stablizer 1.3 C-02-P30248 x 1



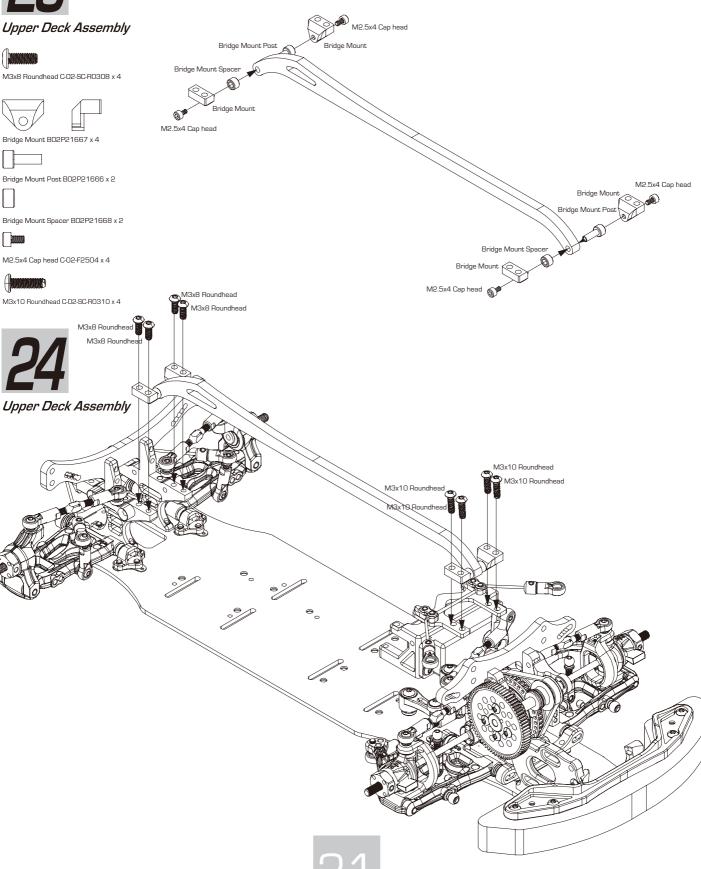




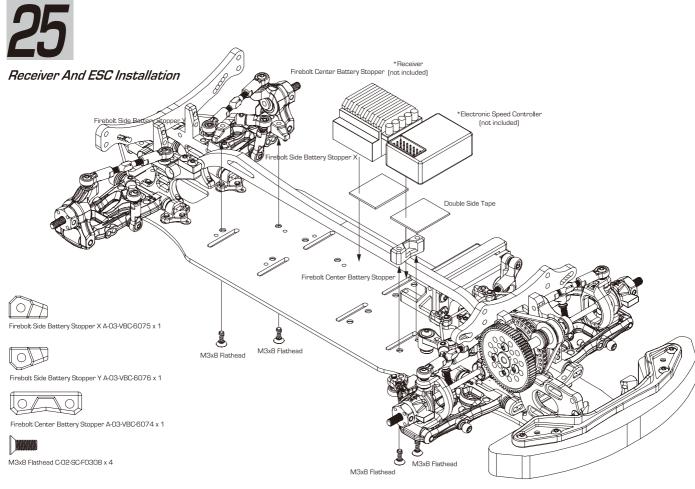


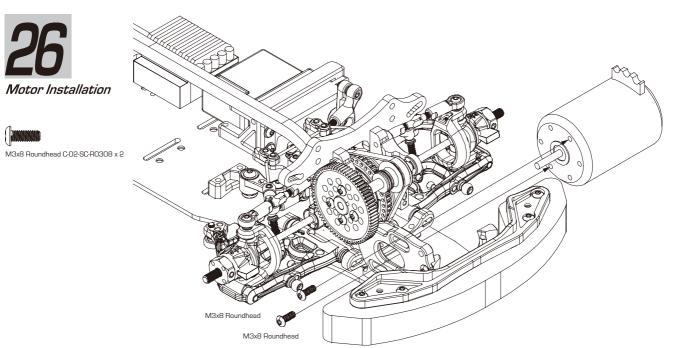














27

Assemble Oil Shocks



Shock Body (Black) 31470 x 4



TBB Shock Height Adjuster (Black) 31636 x 4



TBBS Bottom Cap (Black) 31637 x 4



TBBS Shock Piston (4 holes) A-03-VBC-0138 x 4



TBB Shock Bottom Connector A-03-VBC-0124 x 4





TBB Shaft Cap B-02-VBC-0125 x 4



TBBS Shock Shaft CO2G30957 x 4





Sealer Oring (Shock Height adjuster) B-03-VBC-0128 x 4

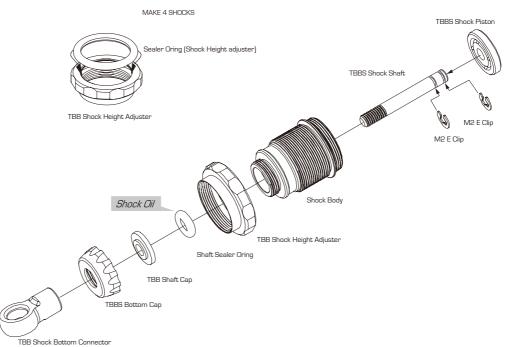


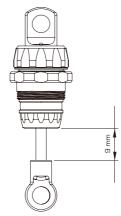


Shaft Sealer Oring B-03-VBC-0012 x 4



M2 E Clip B-02-VBC-0129 x 8





Make sure the shock shaft can move up and down freely



Shock Body Cap



Assemble Oil Shocks Part2



TBB Shock Top Connector A-03-VBC-0130 x 4



TBB Spring Bottom Support A-03-VBC-0131 x 4



TBB Short Oil Sealer Cap (Medium Soft) B-03-VBC-0140 x 4 $\,$



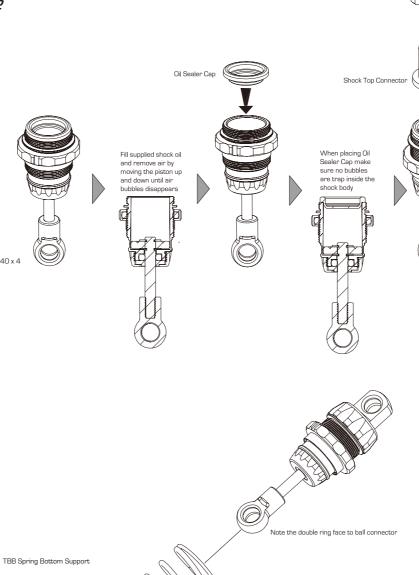
TBB Shock Body Cap (Black) 31638 x 4



TBBS Spring TS 3.0(Short Silver) 31614 x2



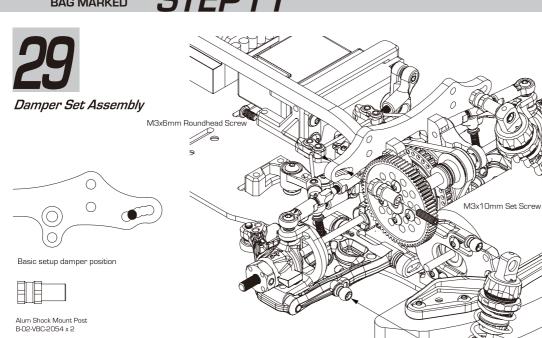
TBBS Spring TS 2.8(Short Blue) 31613 x2



TBBS Spring TS 3.0(Silver) For Front TBBS Spring TS 2.8(Blue) For Rear

Spring Bottom Support





INSTALL LEFT & RIGHT DAMPERS





M3x10 Roundhead C-02-SC-R310 x 2



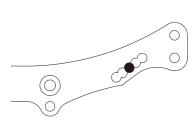
M3x10mm Set Screw C-02-SC-SS-0310 x 2



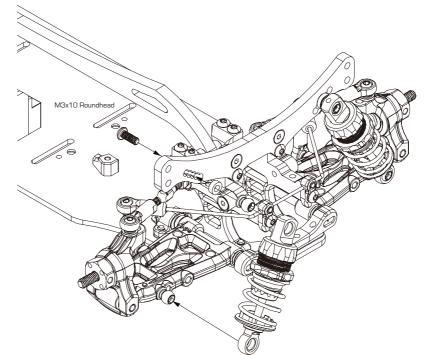
Ball Connector B-02-VBC-0045 x 4



T2 7075 Spacer B-02-P30890 x 2

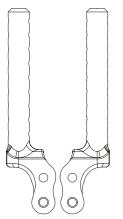


Basic setup damper position



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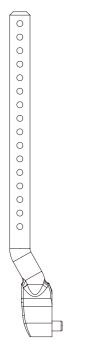
Front Body Post, L&R A-03-VBC-2055 x 2



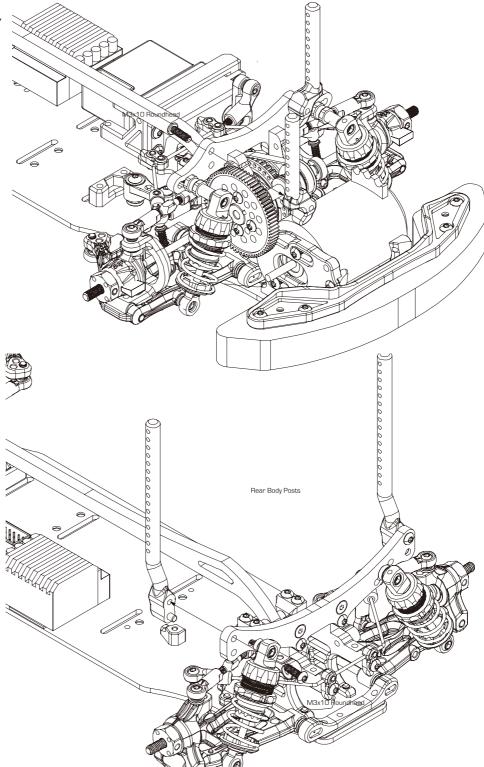
M3x10 Roundhead Screw C-02-SC-R0310 x 4

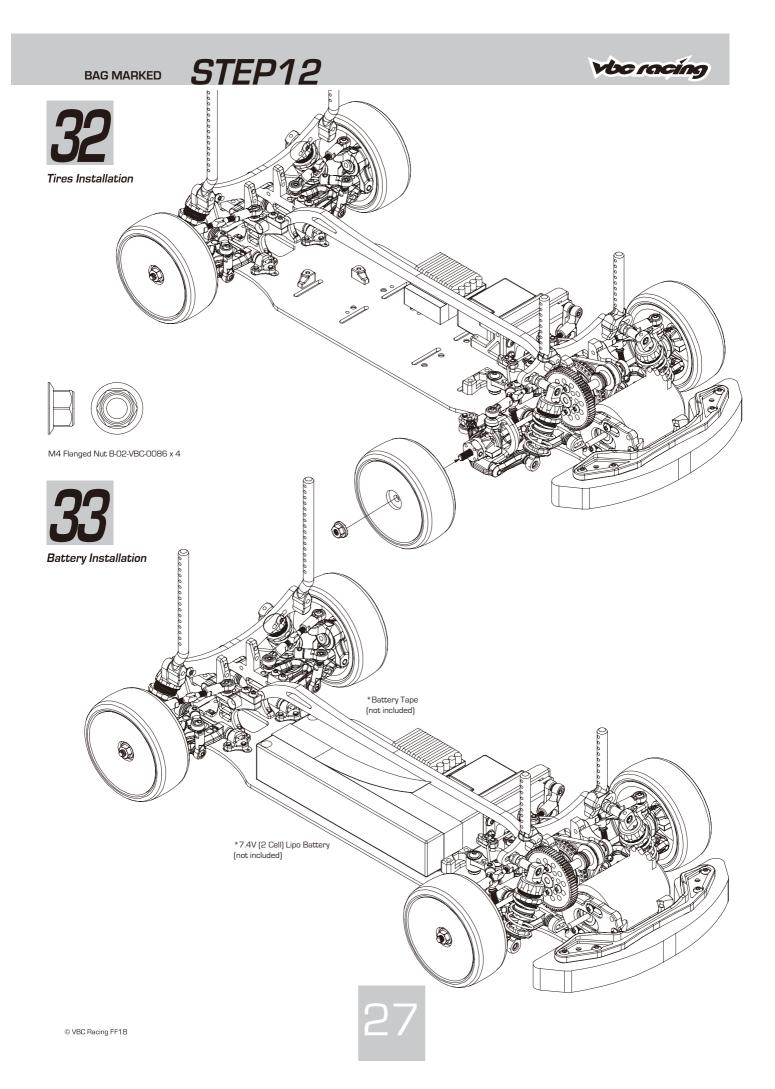
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Rear Body Post Assembly



Rear Body Posts A-03-VBC-2056 x 2









1/10 SCALE ELECTRIC FRONT WHEEL DRIVE COMPETITION TOURING CAR KIT



VBC Racing FF18 Car Kit D-05-VBC-CK34 1.0