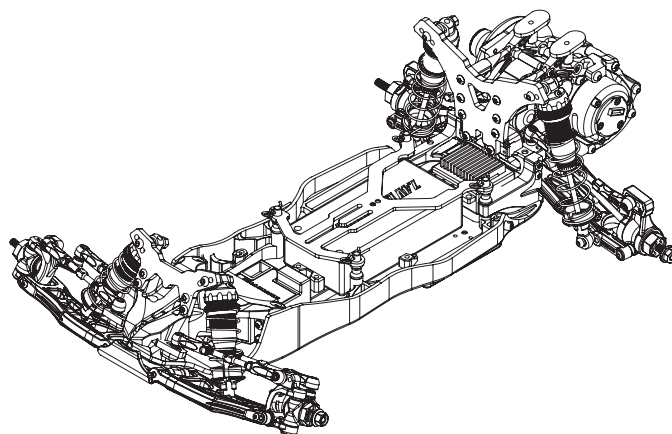


COMPETITION GRADE HIGH PERFORMANCE RADIO CONTROL RACING CAR CHASSIS KIT

FIREBOLT RM

1/10 RWD ELECTRIC COMPETITION OFFROAD BUGGY CAR KIT



INSTRUCTIONS MANUAL

vbc racing



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 7075 aluminum chassis and high grade full carbon fiber 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 carbon fiber parts edges.

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

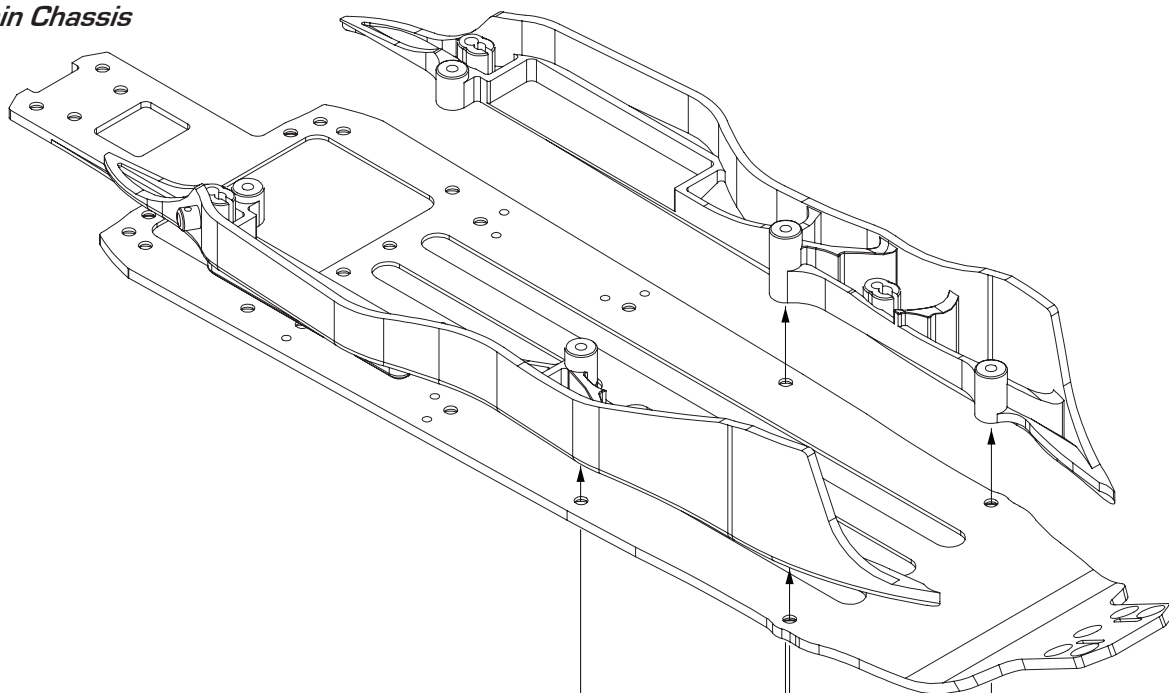
Need help or support.

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

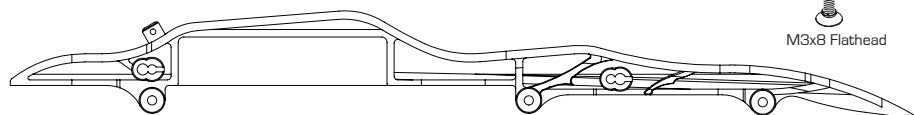


1

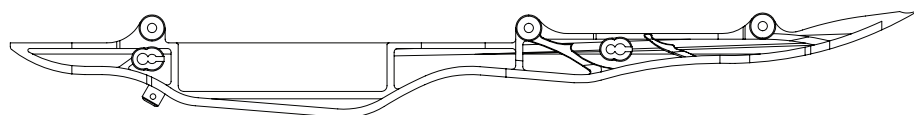
Assmbling the main Chassis



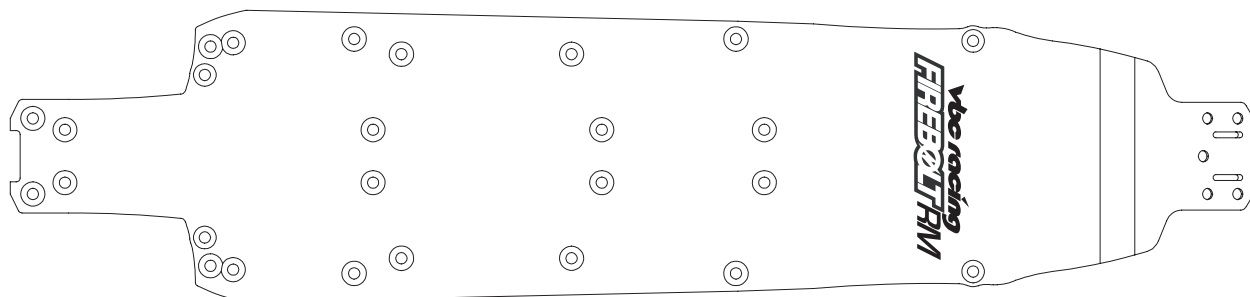
M3x8 Flathead Screw C-02-SC-F0308 x 4



Side Guard, Left A-03-VBC-6016 x 1



Side Guard, Right A-03-VBC-6017 x 1



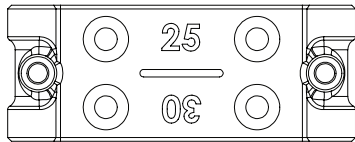
Firebolt RM 7075 Main Chassis B-02-P60180 x 1

2

Front Suspension Assembling



3x35mm Suspension Pin C-02-VBC-6015 x 2



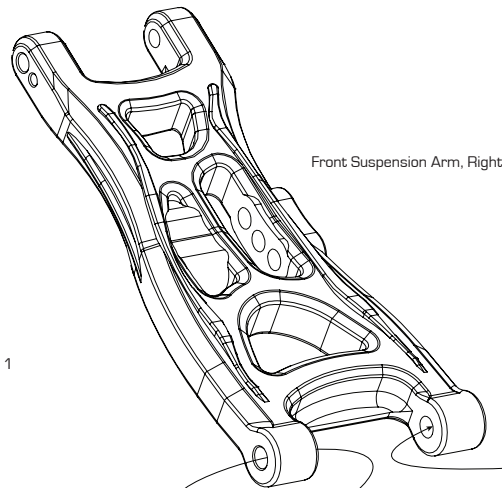
Front Suspension Arm Mount A-03-VBC-6014 x 1



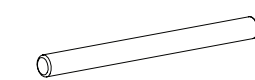
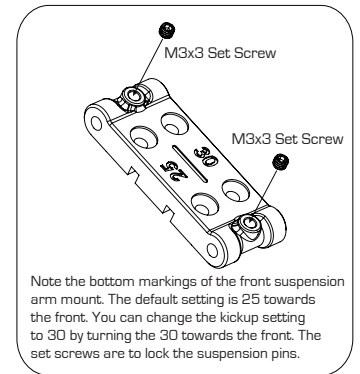
Firebolt Alum Front Suspension Brace B-02-VBC-6012 x 1



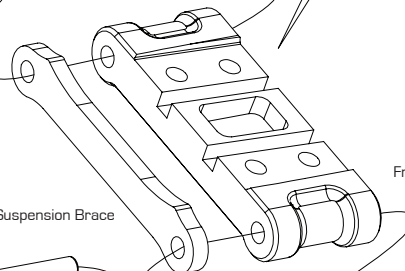
M3x3 Set Screw C-02-SC-SS-0303 x 2



Front Suspension Arm, Right

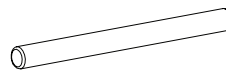


3x35mm Suspension Pin

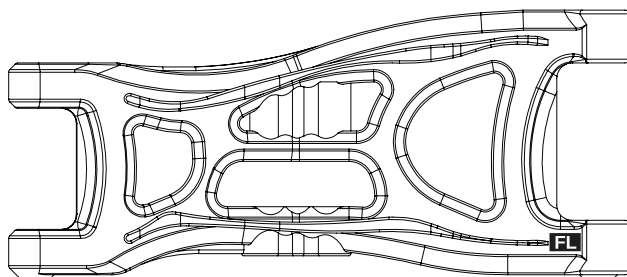


Firebolt Alum Front Suspension Brace

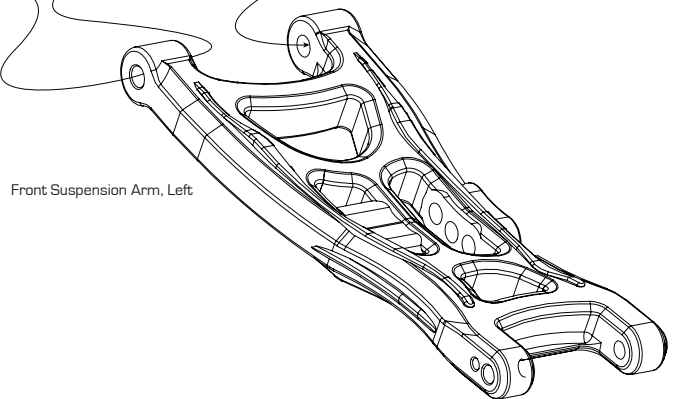
Front Suspension Arm Mount



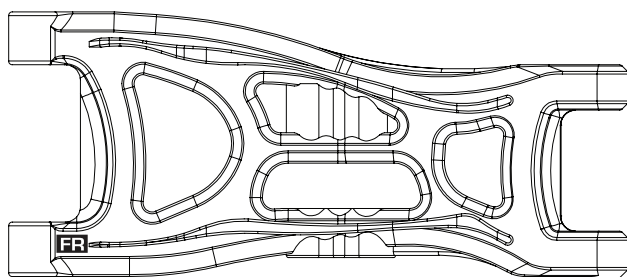
3x35mm Suspension Pin



Front Suspension Arm, FL A-03-VBC-6045 x 1



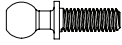
Front Suspension Arm, Left



Front Suspension Arm, FR A-03-VBC-6044 x 1

3

Front Suspension Assembly



4.7x15mm Ball Connector C-02-VBC-6008 x 2



M3x12 Flathead Screw C-02-SC-F0312 x 2



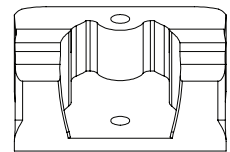
M3x14 Flathead Screw C-02-SC-F0314 x 2



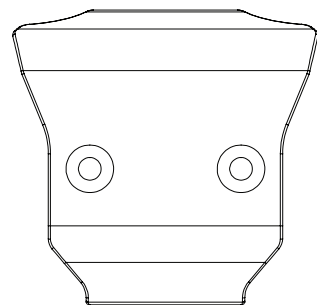
M3x8 Roundhead Screw C-02-SC-R0308 x 1



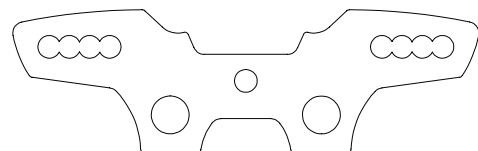
Firebolt Alum Front Camber link Mount B-02-VBC-6013 x 2



Front Center Bulkhead A-03-VBC-6046 x 1



Front Bumper A-03-VBC-6011 x 1



Firebolt Graphite Front Camber Link Plate A-01-VBC-6001 x 1

M3x8 Roundhead Screw

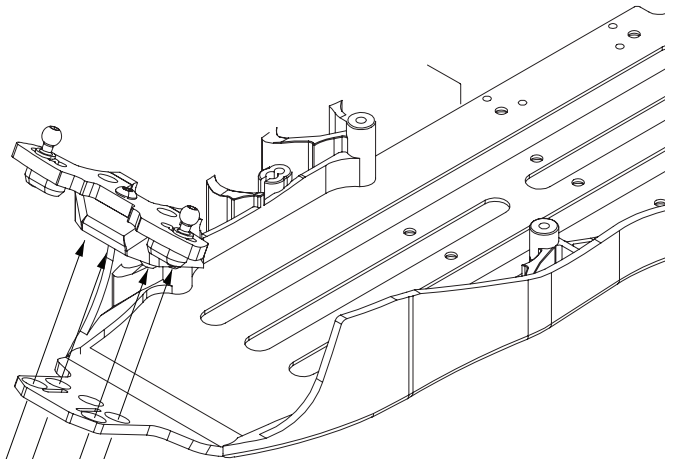
4.7x15mm Ball Connector

4.7x15mm Ball Connector

Firebolt Graphite Front Camber Link Plate

Firebolt Alum Front Camber link Mount

Front Center Bulkhead



M3x12 Flathead Screw

Front Bumper

M3x14 Flathead Screw

03

4

Front Steering Assembly



Steering Swivel Tube B-02-VBC-0033 x 2



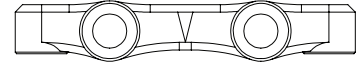
5x8 Ball Bearings C-02-BB-0805-B x 4



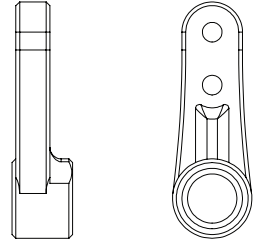
4.7x12mm Ball Connector B-02-VBC-5015 x 3



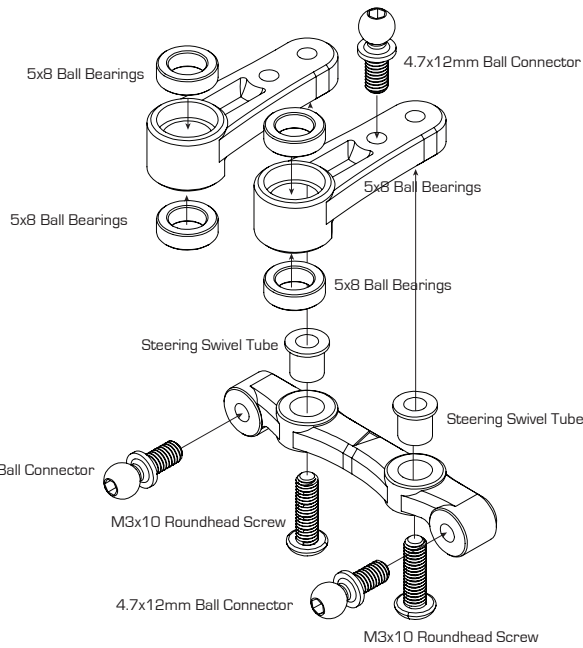
M3x10 Roundhead Screw C-02-SC-R0310 x 2



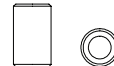
Steering Center Bridge A-03-VBC-6022 x 1



Steering Arm A-03-VBC-6028 x 2



5



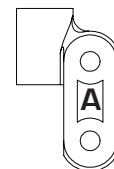
Firebolt Alum Steering Post B-02-VBC-6011 x 2



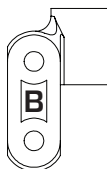
M3x16 Roundhead Screw C-02-SC-R0316 x 2

6

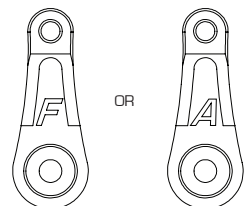
Assembling Front Part



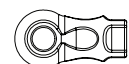
Servo Mount, Left A-03-VBC-6018 x 1



Servo Mount, Right A-03-VBC-6019 x 1



Servo arm, Futaba (F) A-03-VBC-6034 x 1
OR
Servo arm, Sanwa/ KO (A) A-03-VBC-6035 x 1



Ball Cup, Short A-03-VBC-6029 x 2



M3x6x0.5 Spacer B-02-VBC-5093 x 4



M3x6 Roundhead Screw C-02-SC-R0306 x 1



M3x8 Roundhead Screw C-02-SC-R0308 x 4

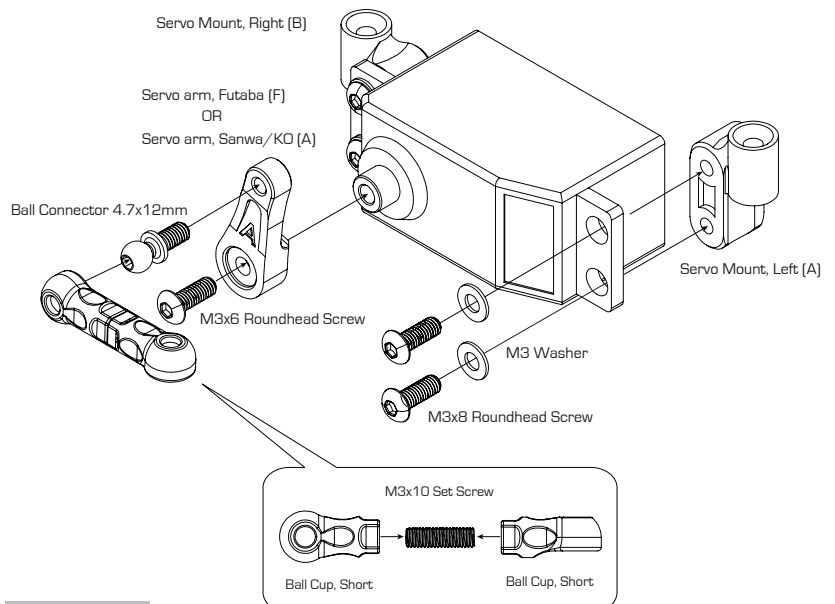
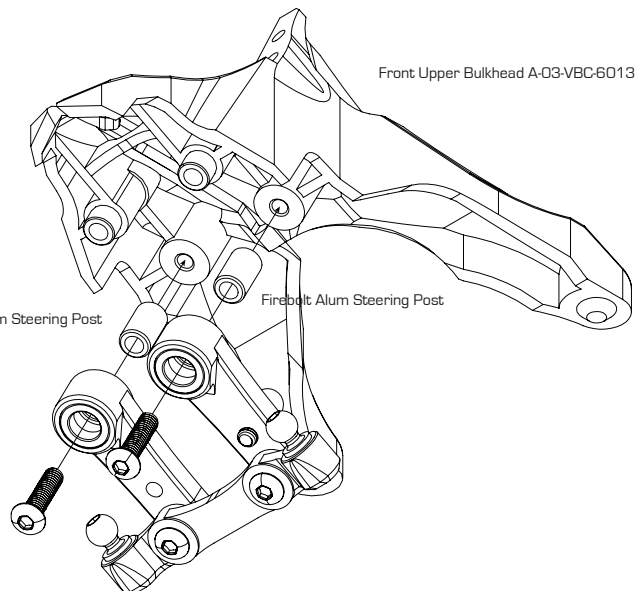


M3x10 Set Screw C-02-SC-SS-0310 x 1



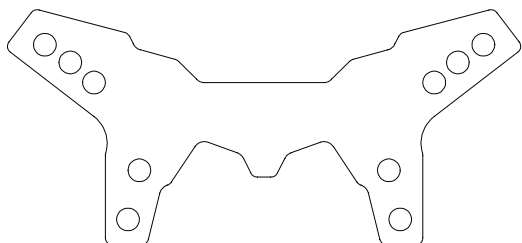
Ball Connector 4.7x12mm B-02-VBC-5015 x 1

M3x16 Roundhead Screw



7

Front Damper Mount Assembly



Graphite Front Damper Mount A-01-VBC-6004 x 1



M3x20 Roundhead Screw C-02-SC-R0320 x 4



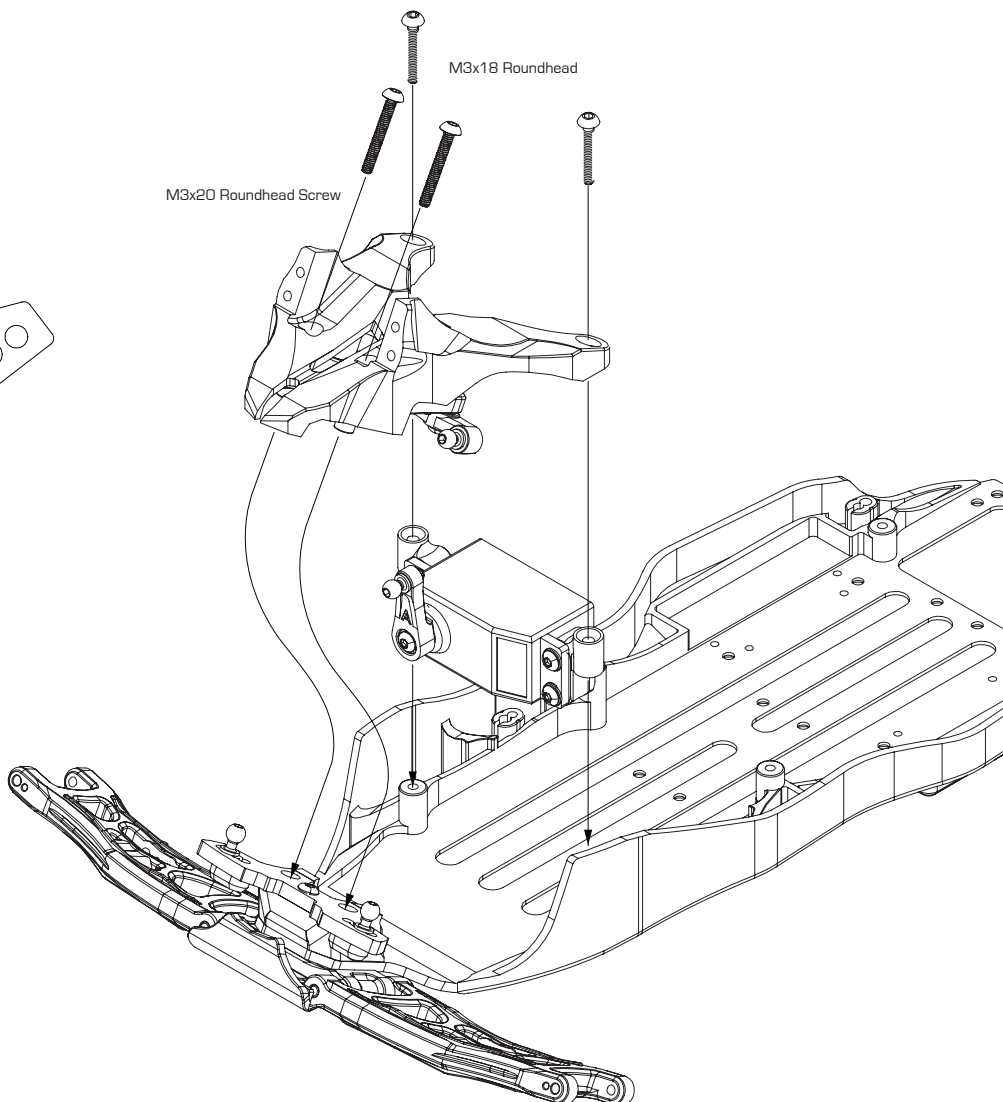
M3x18 Roundhead Screw C-02-SC-R0318 x 2



M3x8 Roundhead Screw C-02-SC-R0308 x 4

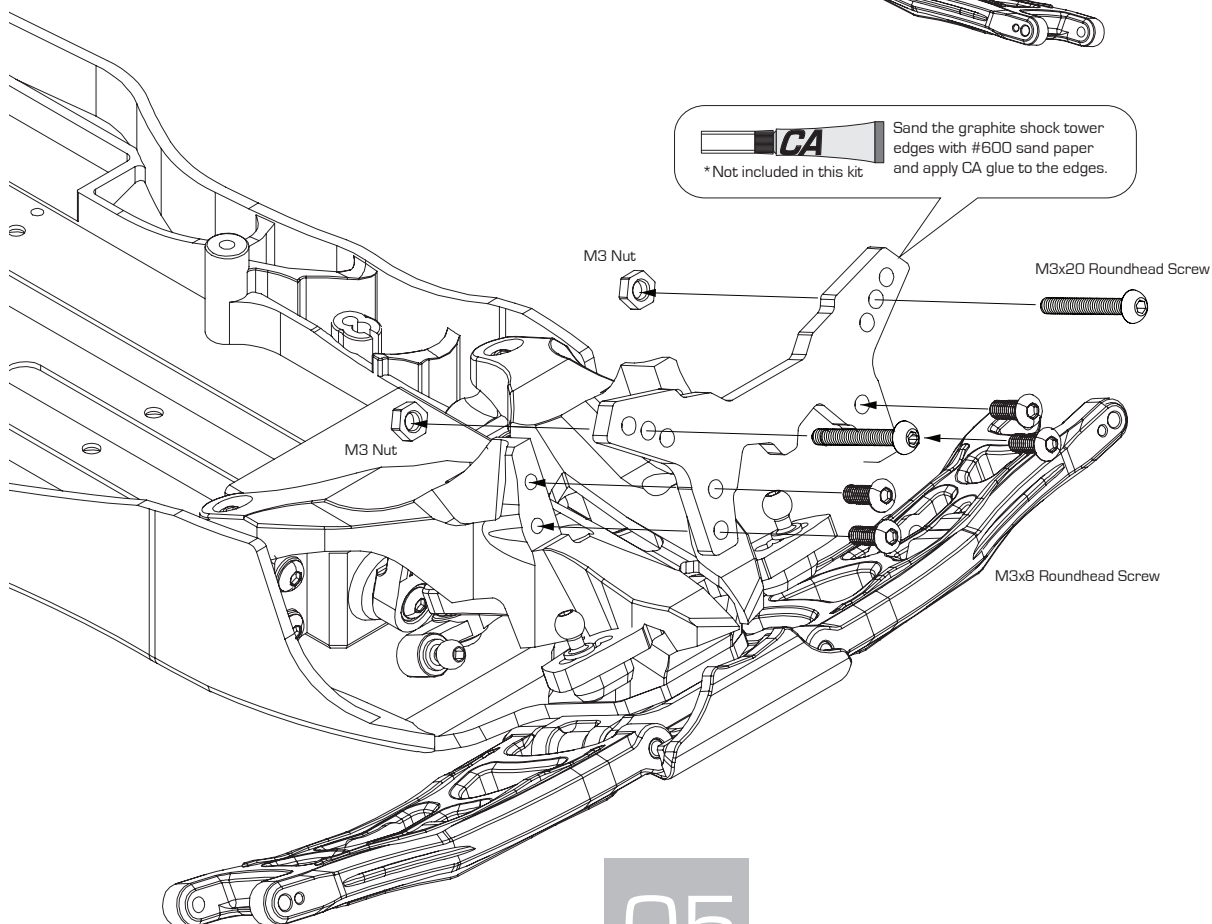


M3 Nut C-02-SC-FN03 x 2



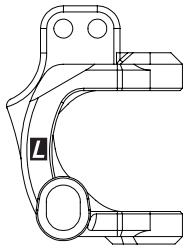
*Not included in this kit.

Sand the graphite shock tower edges with #600 sand paper and apply CA glue to the edges.

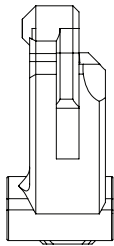


8

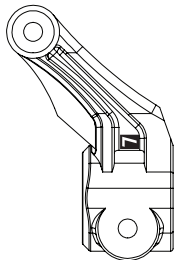
Front Knuckle Assembly



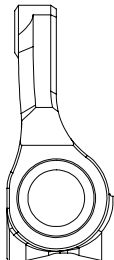
C-hub, Left A-03-VBC-6020 x 1



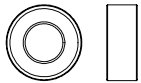
C-hub, Right A-03-VBC-6021 x 1



Steering Knuckle, Left A-03-VBC-6024 x 1



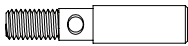
Steering Knuckle, Right A-03-VBC-6025 x 1



5x10 Ball Bearing C-02-BB-1005-B x 4



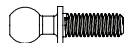
Aluminium Front Axle Washer B-02-VBC-6005 x 2



Front Axle C-02-VBC-6006 x 2



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



Ball Connector 4.7x15mm C-02-VBC-6008 x 4



3x6x2mm Plastic Spacer A-03-VBC-6056 x 2



0° caster adjuster A-03-VBC-6031 x 2

2.5° caster adjuster A-03-VBC-6032 x 2

5° caster adjuster A-03-VBC-6033 x 2



2.5x6x1mm Plastic Spacer A-03-VBC-6052 x 2



Front Wheel Adaptor A-03-VBC-6057 x 2



2.5x24.8mm Kingpin C-02-VBC-6018 x 2

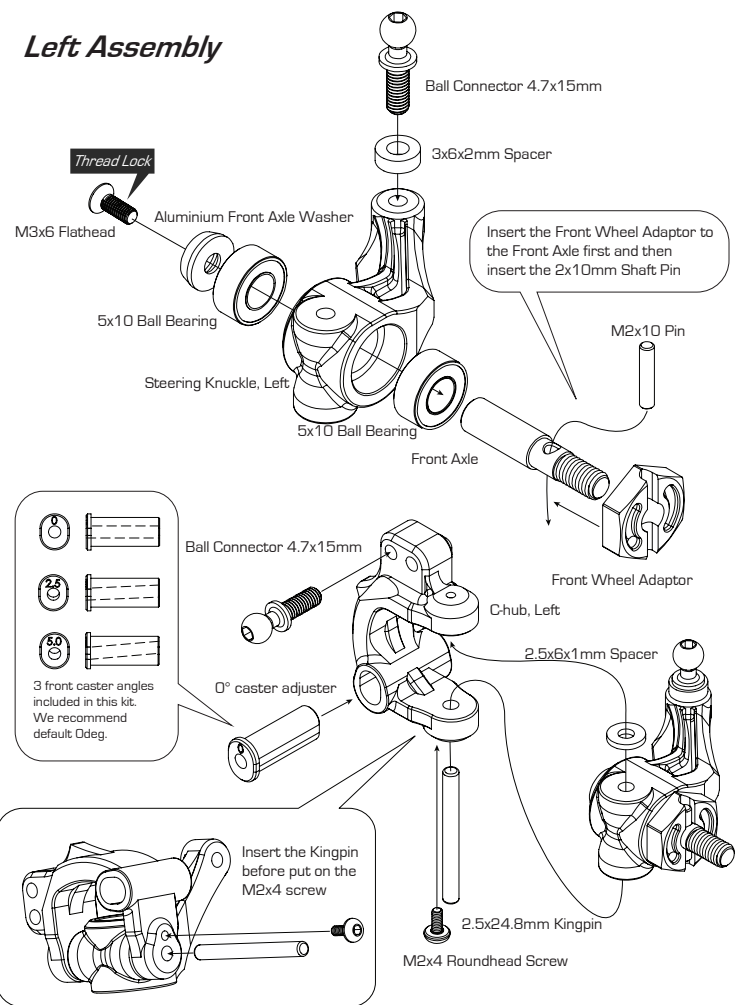


M2x4 Roundhead Screw C-02-SC-R0204 x 2

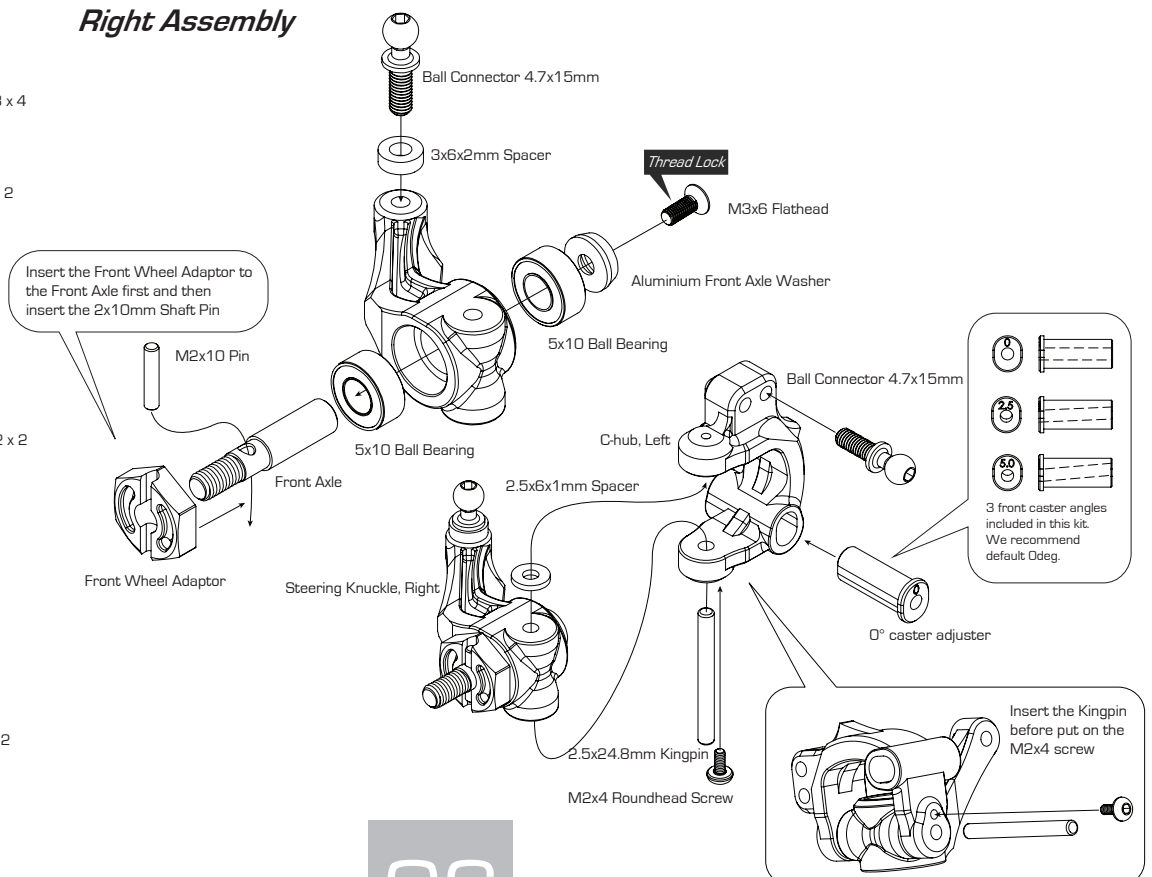


M3x6 Flathead Screw C-02-SC-F0306 x 2

Left Assembly



Right Assembly



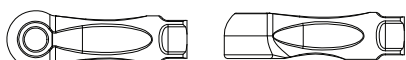
9

Steering System Assembly

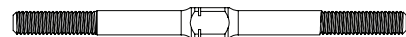
M2x4 Roundhead Screw C-02-SC-R0204 x 2



2.5x6x1mm Plastic Spacer A-03-VBC-6052 x 2



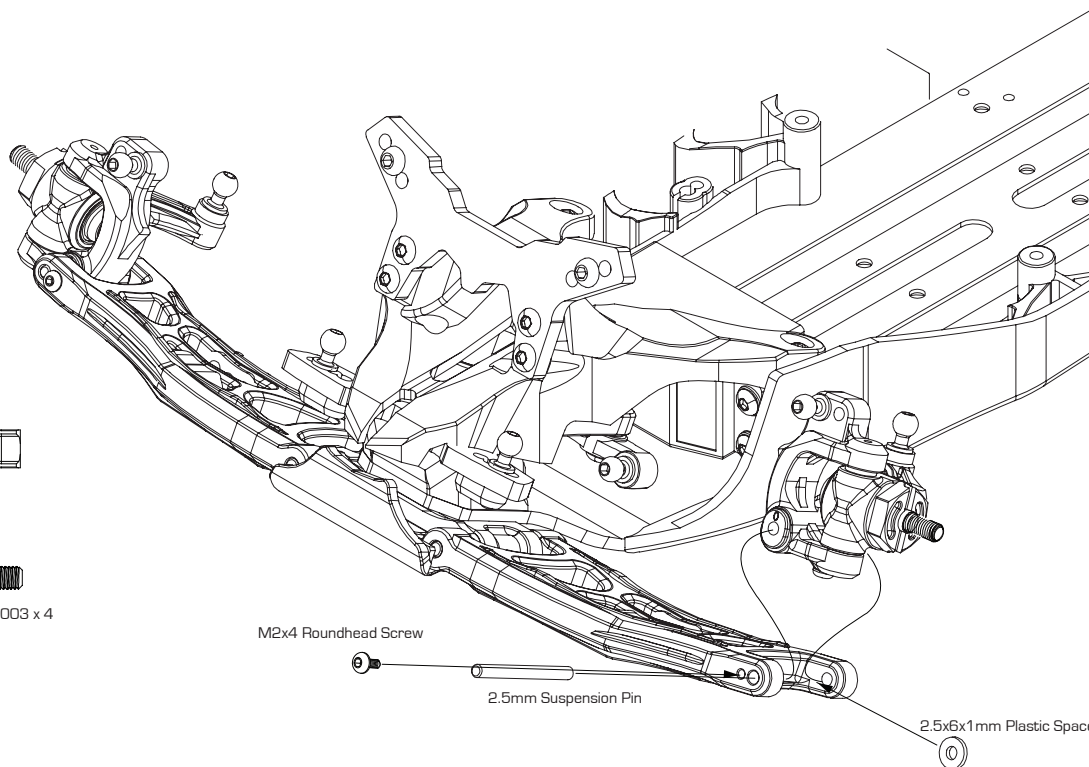
Ball Cups, Long A-03-VBC-6030 x 8



3x52mm Hardened Springsteel Turnbuckle C-02-VBC-6003 x 4



2.5x27.8mm Suspension Pin C-02-VBC-6016 x 2

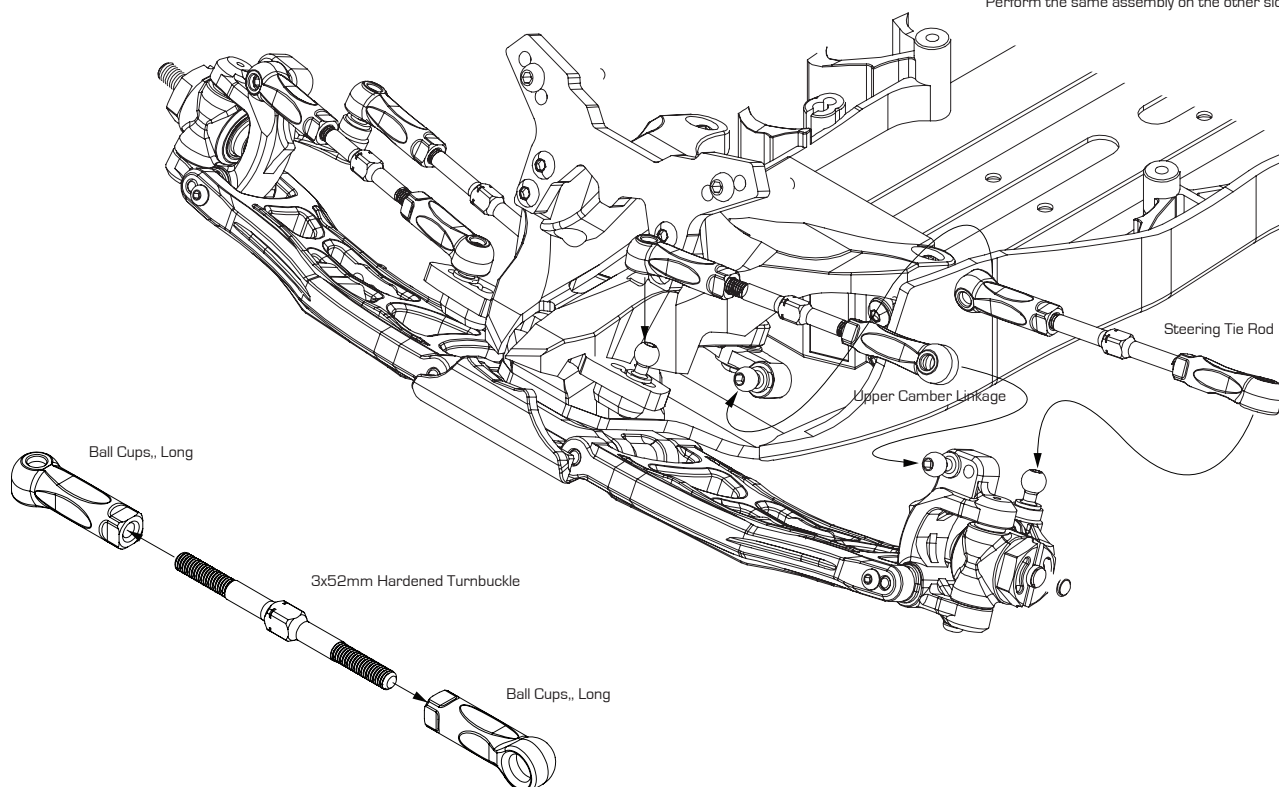


M2x4 Roundhead Screw

2.5mm Suspension Pin

2.5x6x1mm Plastic Spacer

Perform the same assembly on the other side



Ball Cups, Long

3x52mm Hardened Turnbuckle

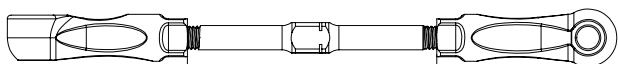
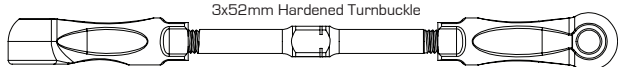
Ball Cups, Long

Steering Tie Rod

Upper Camber Linkage

Upper Camber Linkage

3x52mm Hardened Turnbuckle

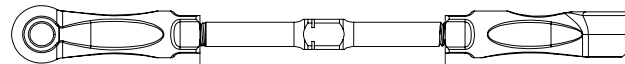
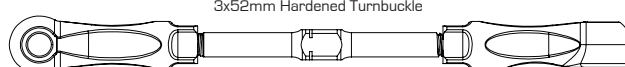


Make Two

32mm

Steering Tie Rod

3x52mm Hardened Turnbuckle

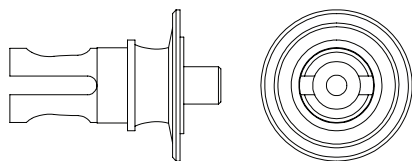


Make Two

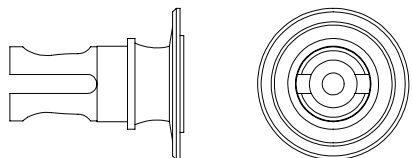
32.5mm

10

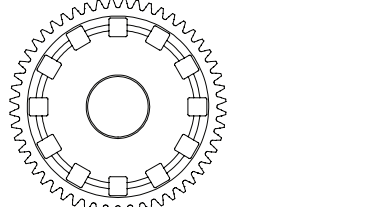
Rear Differentials Assembly



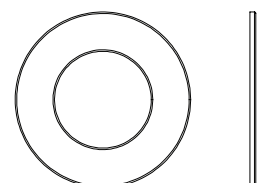
FireboltDM Diff Joint A C-02-VBC-6012 x 1



FireboltDM Diff Joint B C-02-VBC-6013 x 1



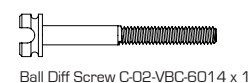
Firebolt 52T Composite Ball Diff Gear A-03-P60545 x 1



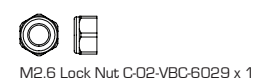
Firebolt Diff Ring C-02-VBC-6023 x 2



Diff Balls (2.4mm) C-03-VBC-6004 x 12



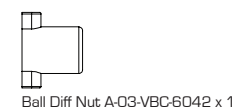
Ball Diff Screw C-02-VBC-6014 x 1



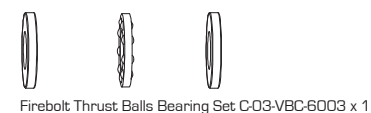
M2.6 Lock Nut C-02-VBC-6029 x 1



Diff Spring C-02-VBC-6024 x 1



Ball Diff Nut A-03-VBC-6042 x 1



Firebolt Thrust Balls Bearing Set C-03-VBC-6003 x 1



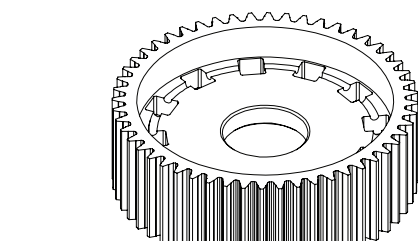
5x8 Ball Bearings C-02-BB-0805-B x 2



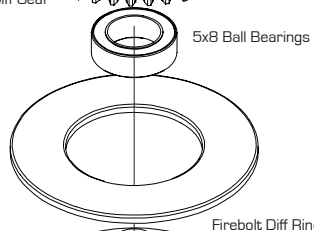
M1.0x4x6 O-ring R-02-VBC-6036 x 1



5x8 Ball Bearings

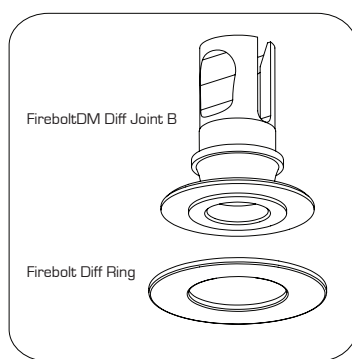


Firebolt 52T Ball Diff Gear



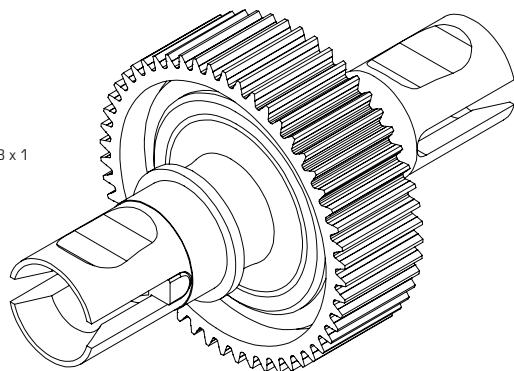
Firebolt Diff Ring

FireboltDM Diff Joint A



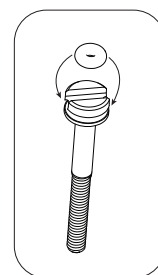
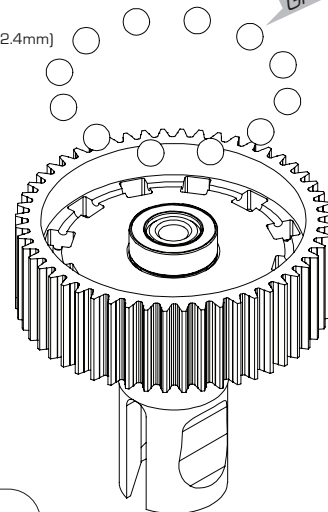
FireboltDM Diff Joint B

Firebolt Diff Ring

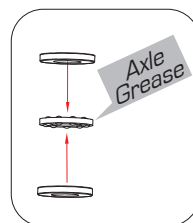


Diff Balls (2.4mm)

Diff Grease

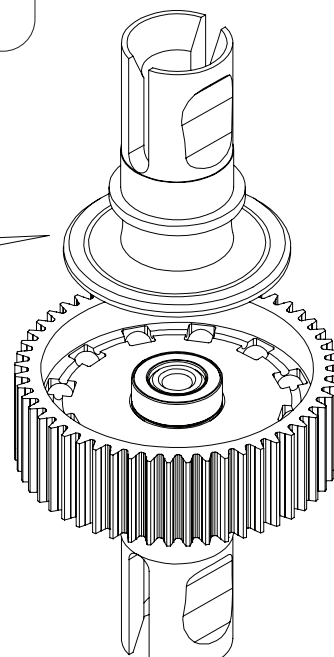


M1.0x4 O-ring



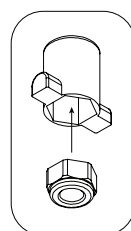
Ball Diff Screw

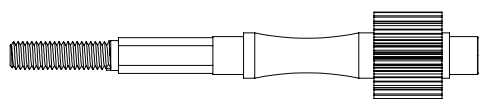
Firebolt Thrust Balls Bearing



Diff Spring

Ball Diff Nut

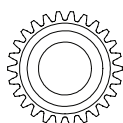


11**Installing gears**

Firebolt Gear Top Shaft C-02-VBC-6005 x 1



Firebolt Idler Shaft C-02-VBC-6002 x 2



Firebolt Composite Idler gear A-03-P60646 x 1



Idler Gear Spacer A-03-P60188 x 2



5x10 Ball Bearings C-02-BB-1005-B x 4

Gearbox Case, Left
A-03-VBC-6010

5x10x4mm Ball Bearings

Idler Gear Spacer

5x10x4mm Ball Bearings

Firebolt Gear Top Shaft

5x10x4mm Ball Bearings

5x10x4mm Ball Bearings

Firebolt Idler Shaft

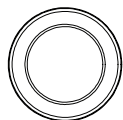
Idler Gear Spacer

Firebolt Extreme Lightweight Aluminium Motor Plate
B-02-G60648**12****Gearbox Assembly**

M3x35 Roundhead Screw C-02-SC-R0335 x 2



M3x40 Roundhead Screw C-02-SC-R0340 x 1



10x15 Ball Bearings C-02-BB-1510-P x 2



M2.5x12 Cap Screw C-02-SC-R2512 x 1

10x15 Ball Bearings

10x15 Ball Bearings

Gearbox Case, Right
A-03-VBC-6009

M3x40 Roundhead Screw

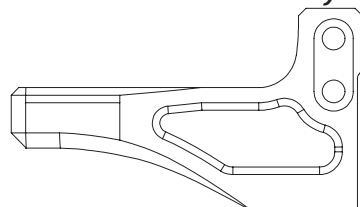
M3x35 Roundhead Screw

M3x35 Roundhead Screw

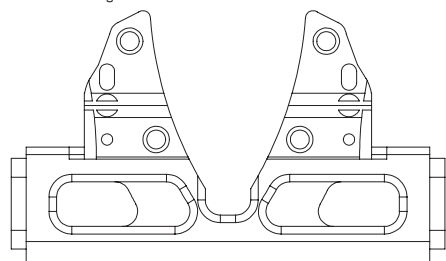
M2.5x12 Cap Screw

13

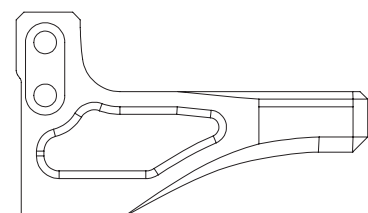
Rear Bulkhead Assembly



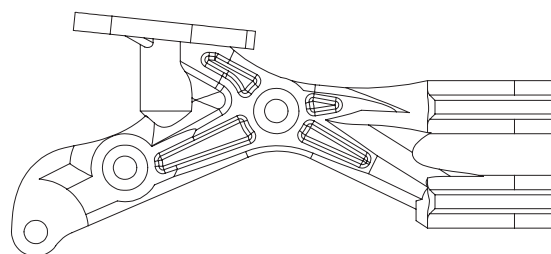
Firebolt RM Right Rear Bulkhead B-02-P60592



Firebolt RM Center Rear Bulkhead B-02-P60186



Firebolt RM Left Rear Bulkhead B-02-P60185



RM Wing Stay Mount A-03-P60182



M3x8 Roundhead Screw C-02-SC-R0308 x 8

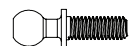


M3x20 Roundhead Screw C-02-SC-R0320 x 2

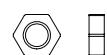


M3x12 Roundhead Screw C-02-SC-R0312 x 4

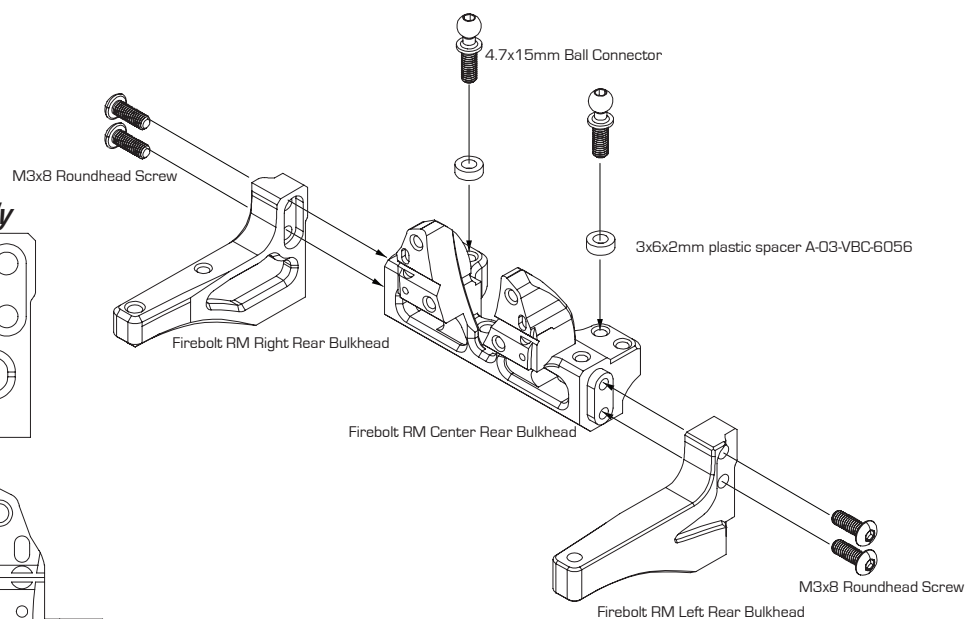
M3x20 Roundhead Screw



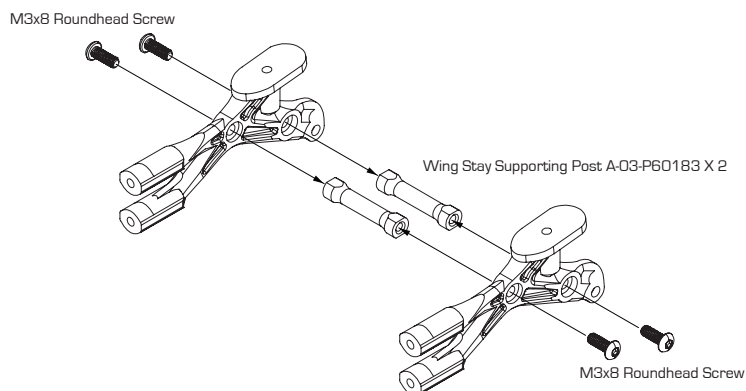
4.7x15mm Ball Connector C-02-VBC-6008 x 2



M3 Hex Nut C-02-SC-FN03 x 2



14

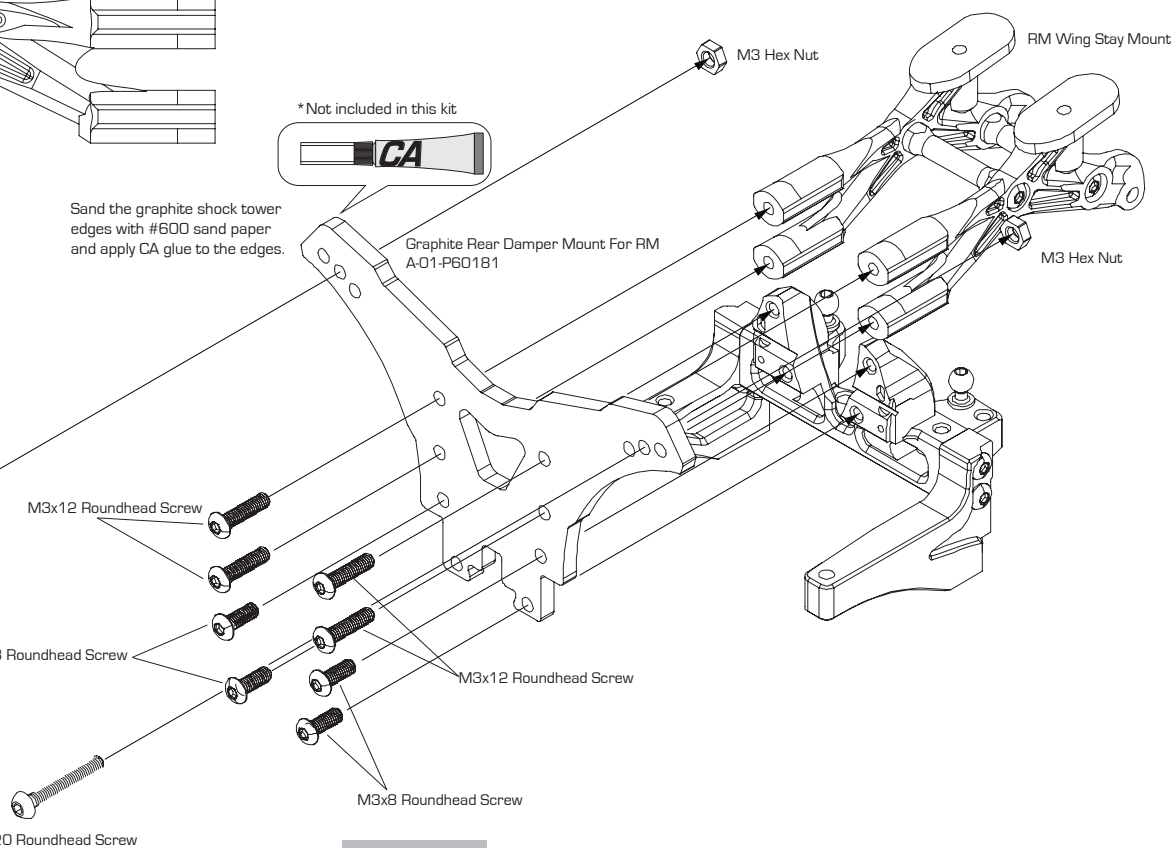


* Not included in this kit



Sand the graphite shock tower edges with #600 sand paper and apply CA glue to the edges.

Graphite Rear Damper Mount For RM A-01-P60181



10

15

Installing the Gearbox



M3x8 Flathead Screw C-02-SC-F0308 x 6



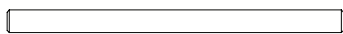
Firebolt Alum Rear Suspension Mount, RF B-02-VBC-6003 x 1



Rear RF Mount Spacer 1.5mm A-01-VBC-6081 x 1



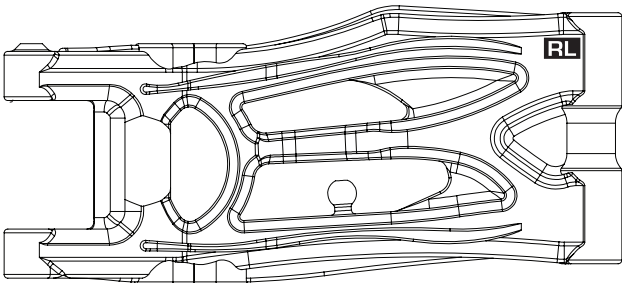
3x6x1.2mm Plastic Spacer A-03-VBC-6055 x 4



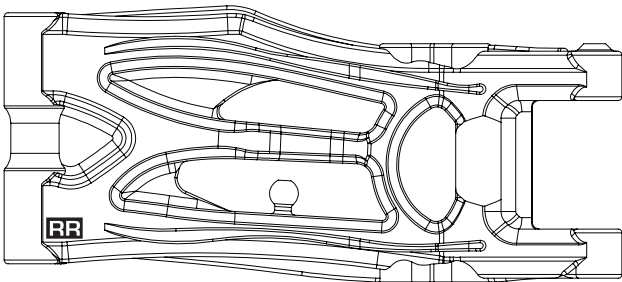
3x44.5mm Suspension Pin B-02-VBC-0029 x 2



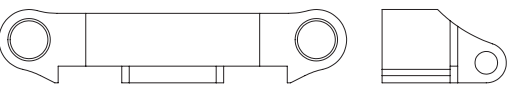
Arm Pin Pivot Ball B-02-VBC-0035 x 4



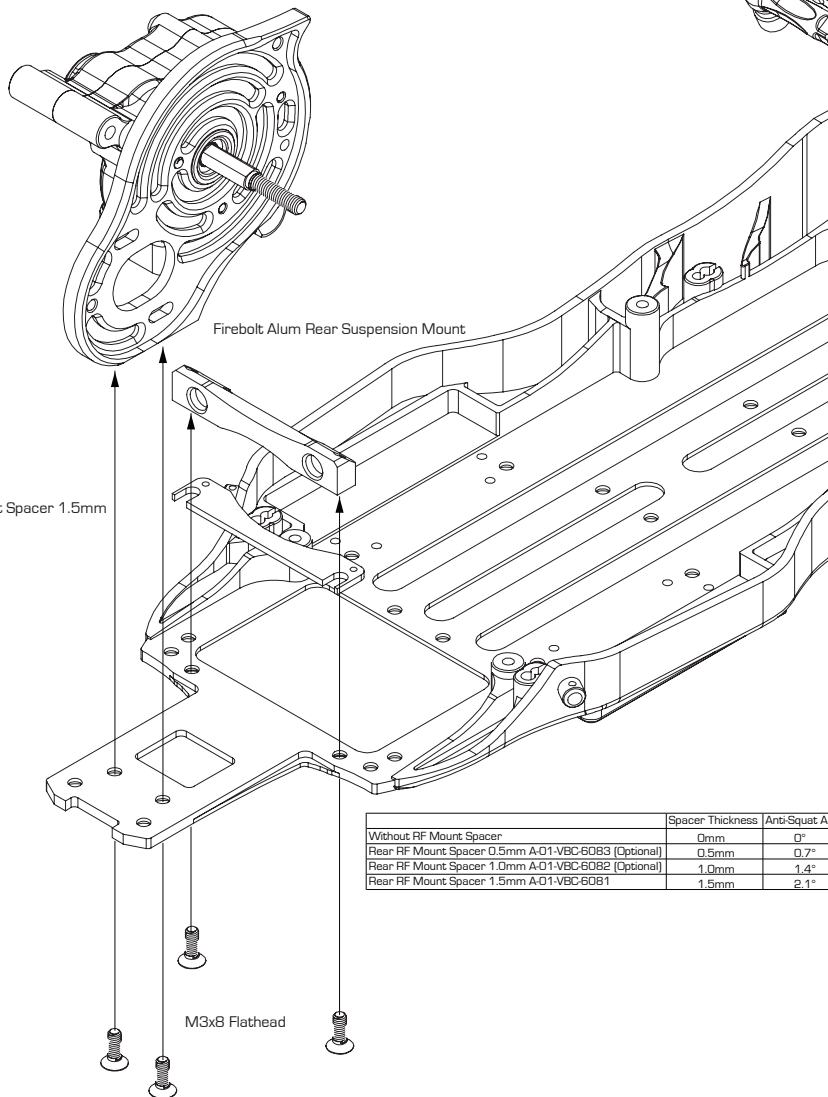
Firebolt Rear Suspension Arm, RL A-03-VBC-6026 x 1



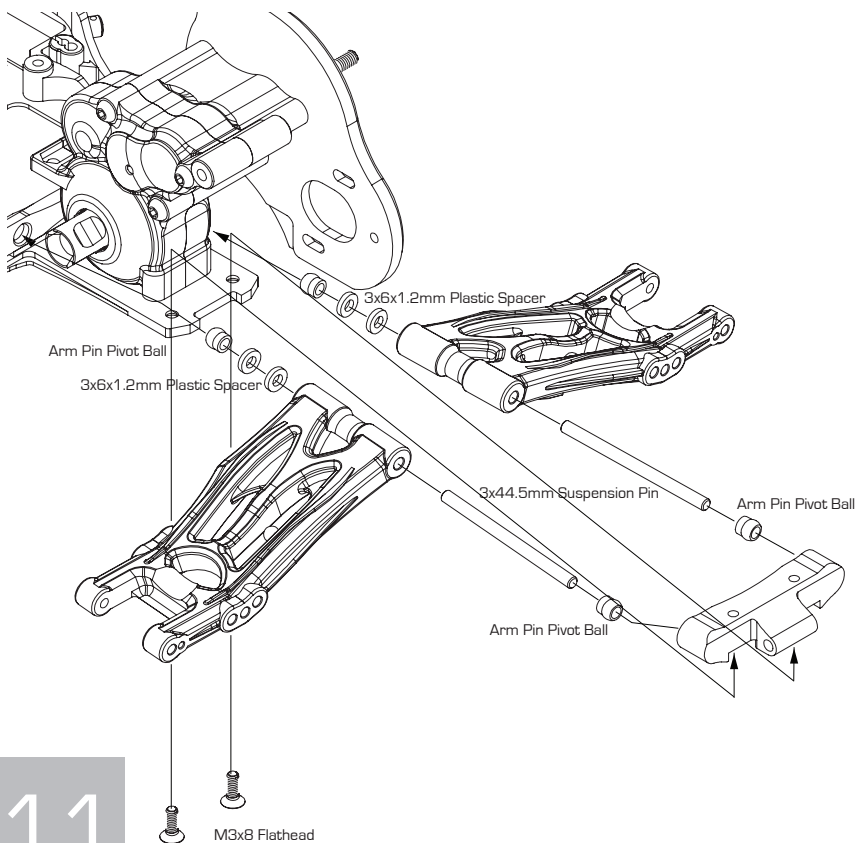
Firebolt Rear Suspension Arm, RR A-03-VBC-6027 x 1

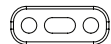


RM RR Suspension Mount B-02-P60187 x 1



	Spacer Thickness	Anti-Squat Angle
Without RF Mount Spacer	0mm	0°
Rear RF Mount Spacer 0.5mm A-01-VBC-6083 (Optional)	0.5mm	0.7°
Rear RF Mount Spacer 1.0mm A-01-VBC-6082 (Optional)	1.0mm	1.4°
Rear RF Mount Spacer 1.5mm A-01-VBC-6081	1.5mm	2.1°



16**Rear Bulkhead Assembly 2**

Gearbox Mount Spacer B-02-VBC-6078 x 1



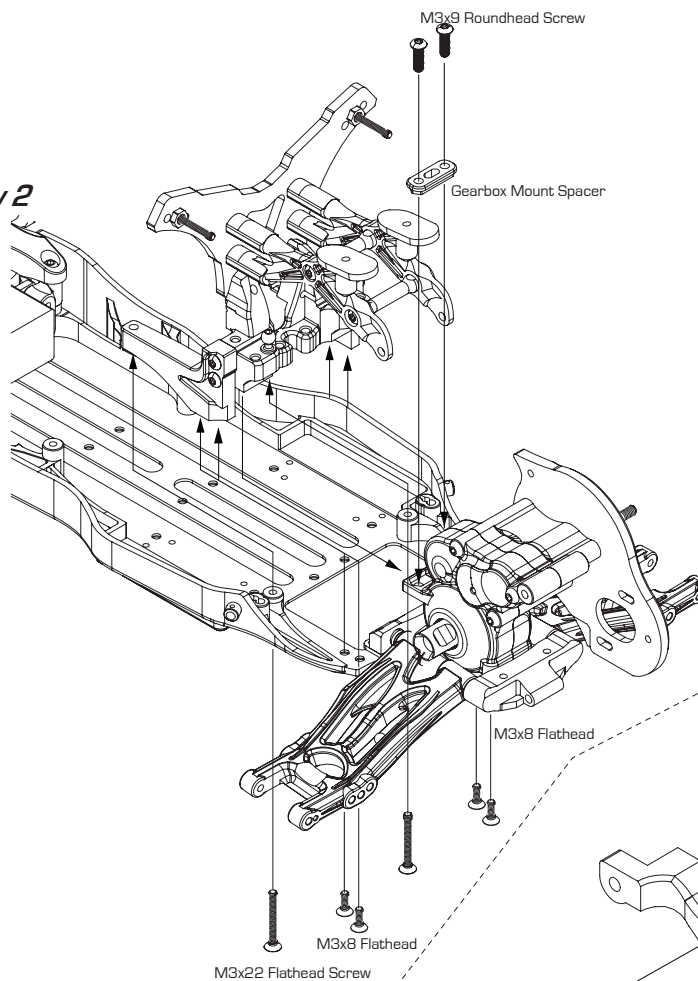
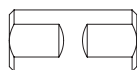
M3x9 Roundhead Screw C-02-SC-R0309 x 2



M3x22 Flathead Screw C-02-SC-F0322 x 2



M3x8 Flathead Screw C-02-SC-F0308 x 4

**17**

Motorguard supporting post B-02-P60556 x 2



M3x10 Roundhead Screw C-02-SC-R0310 x 2



M3x16 Roundhead Screw C-02-SC-R0316 x 2



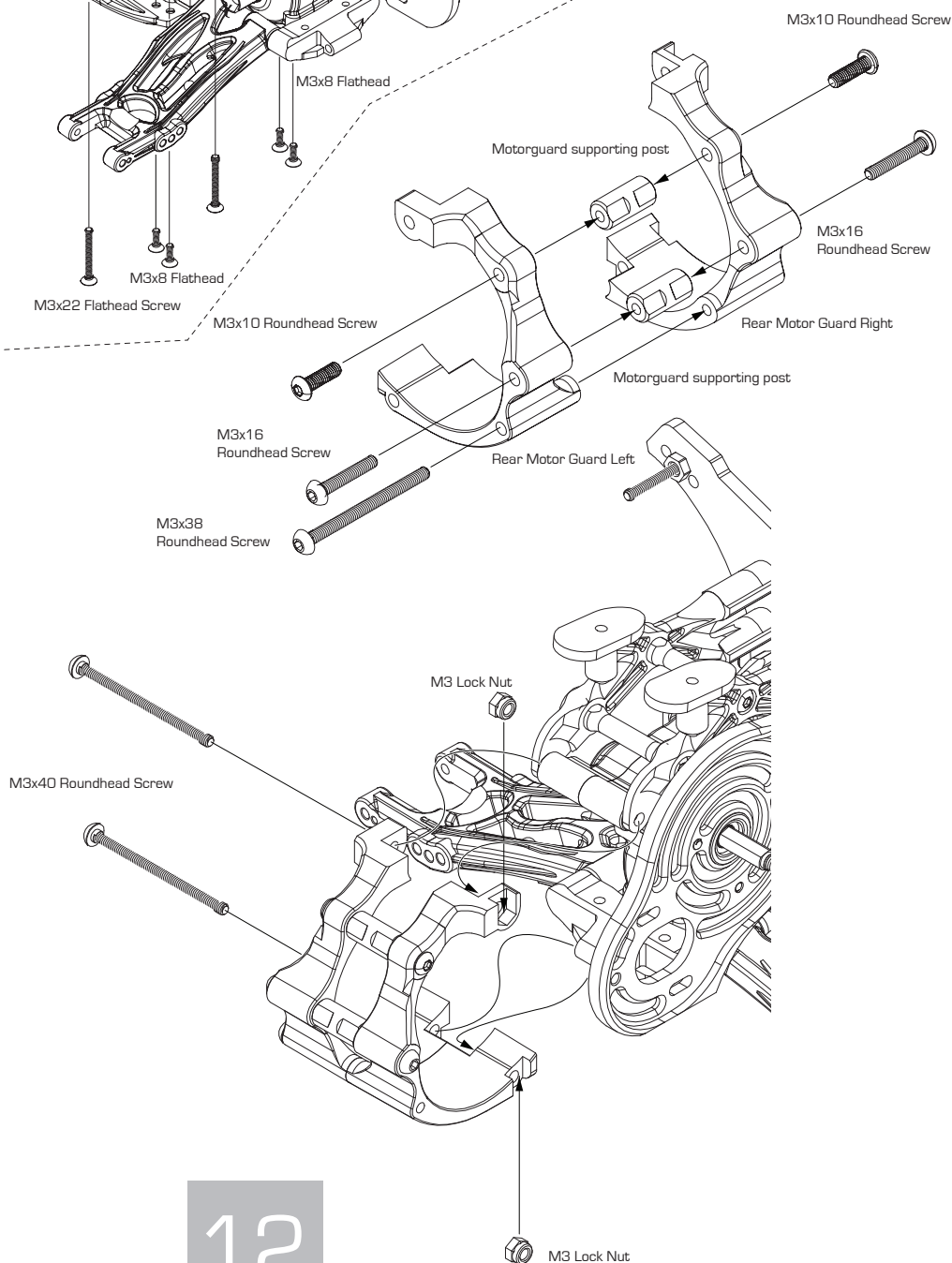
M3x38 Roundhead Screw C-02-SC-R0338 x 1



M3x40 Roundhead Screw C-02-SC-R0340 x 2

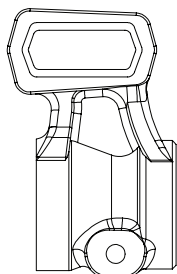


M3 Lock Nut C-02-SC-NN03 x 2



18

Rear Suspension Arm Assembly



Firebolt Rear Upright A-03-VBC-6038 x 2



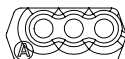
4.7x14mm Ball Connector C-02-VBC-6034 x 2



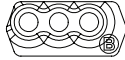
Rear Camber Link Plate (A) A-03-VBC-6050 x 1



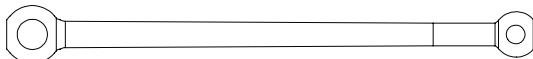
Rear Camber Link Plate (B) A-03-VBC-6051 x 1



Rear Camber Link Holder (A) A-03-VBC-6023 x 1



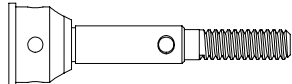
Rear Camber Link Holder (B) A-03-VBC-6049 x 1



Firebolt Rear CVD Inner Axle C-02-VBC-6010 x 2



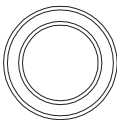
Firebolt Rear CVD Inner Joint C-02-VBC-6011 x 2



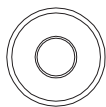
Firebolt Rear CVD Outer Wheel Axle C-02-VBC-6009 x 2



M2x10 Shaft Pin B-02-VBC-0020 x 4



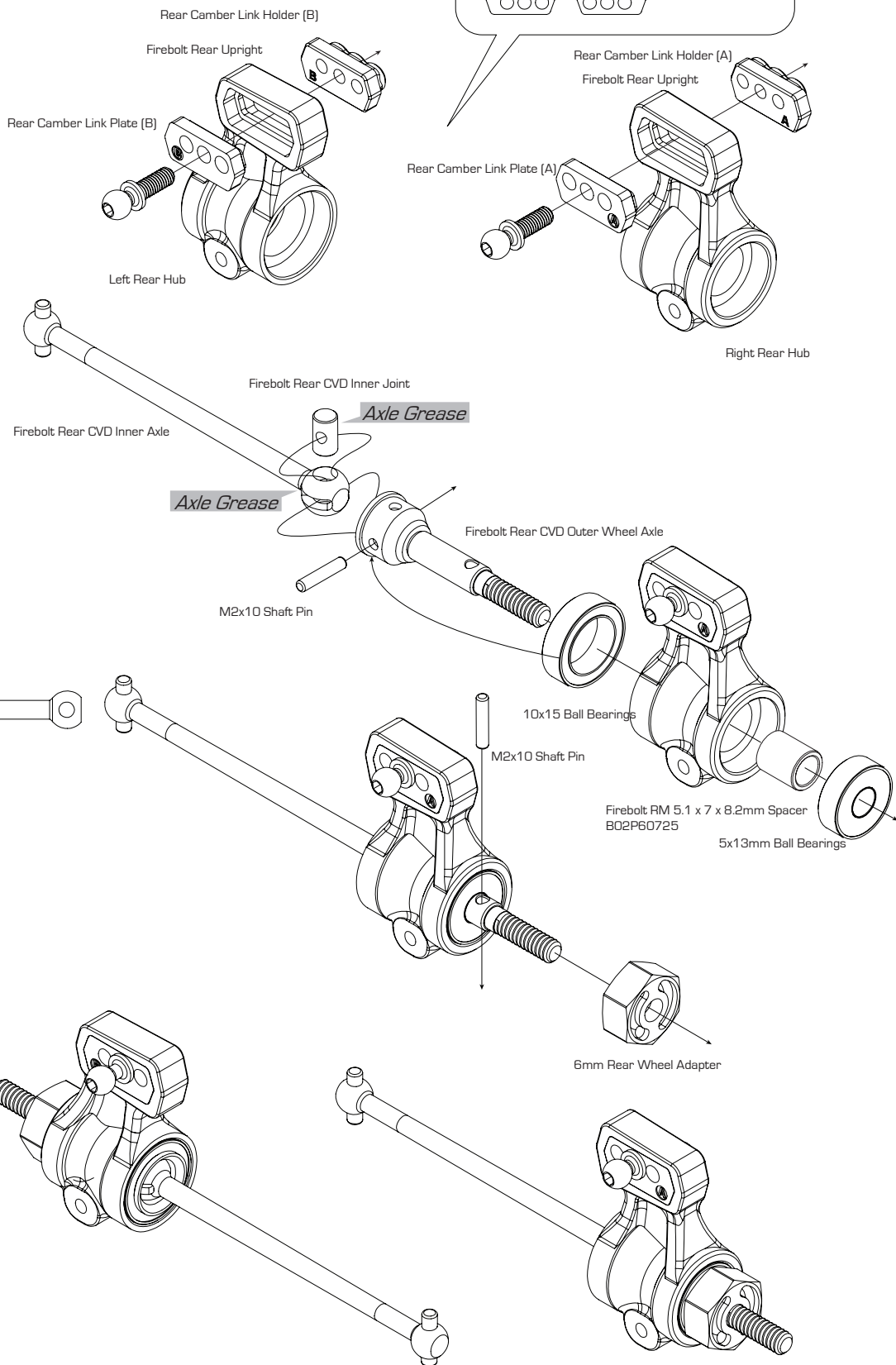
10x15 Ball Bearings C-02-BB-1510-P x 2



5x13mm Ball Bearings C-02-BB-1305-B x 2

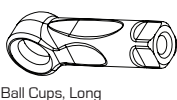


6mm Rear Wheel Adapter A-03-VBC-6069 x 2

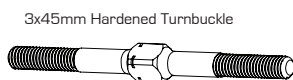


19

Right Rear Camber Link Assembly



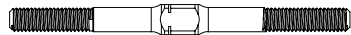
Ball Cups, Long



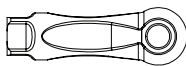
3x45mm Hardened Turnbuckle



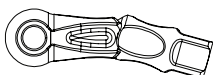
Ball Cup L Type, Long Right



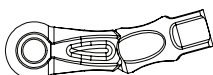
3x45mm Hardened Springsteel Turnbuckle C-02-VBC-6004 x 2



Ball Cups, Long A-03-VBC-6030 x 2



Ball Cup L Type, Long Left A-03-VBC-6048 x 1



Ball Cup L Type, Long Right A-03-VBC-6047 x 1



2.5x6x1mm Plastic Spacer A-03-VBC-6052 x 2



2.5x6x2mm Plastic Spacer A-03-VBC-6054 x 2



2.5x29.8mm Suspension Pin C-02-VBC-6017 x 2



M2x4 Roundhead Screw C-02-SC-R0204 x 2

Left Rear Camber Link Assembly



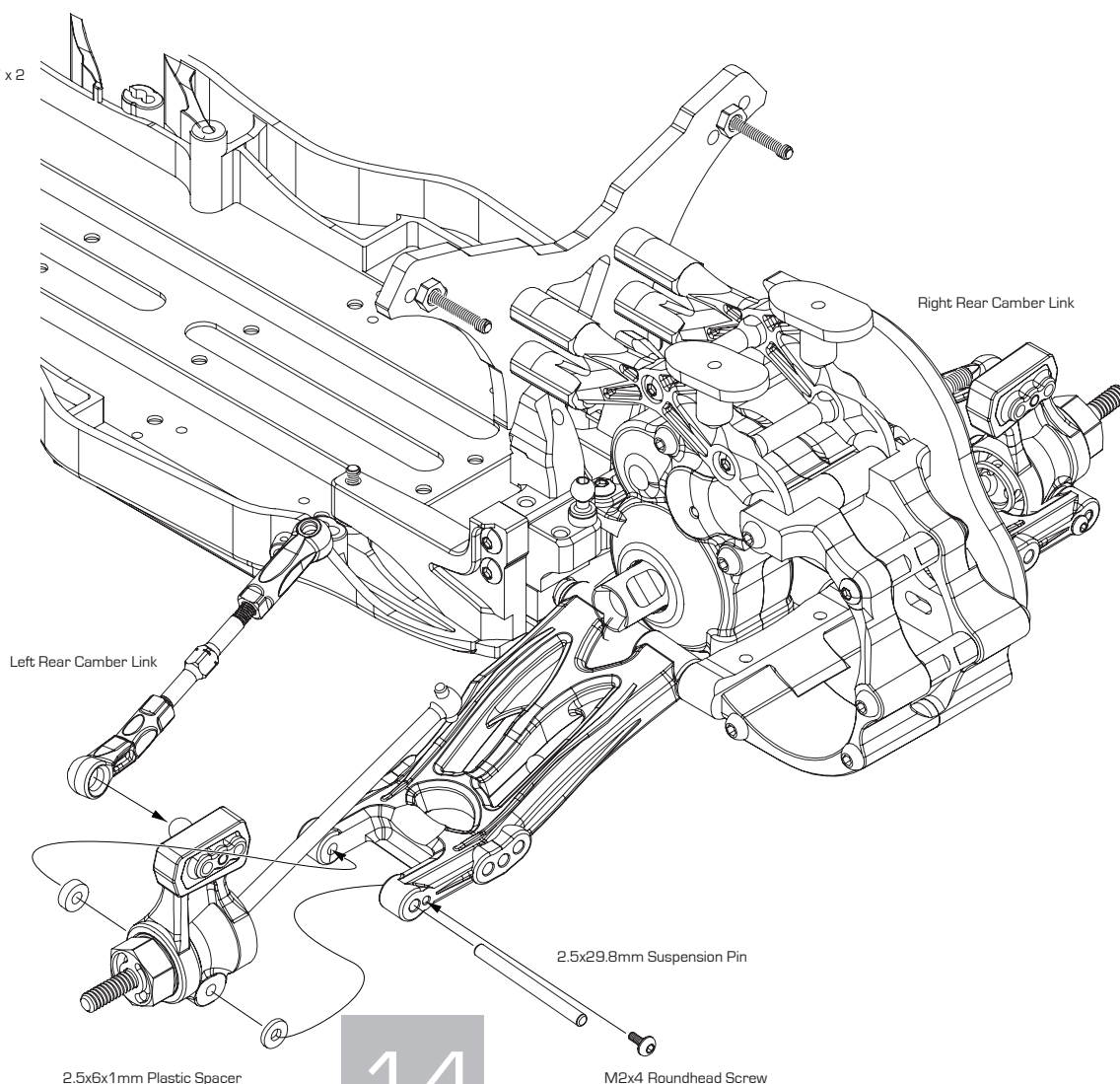
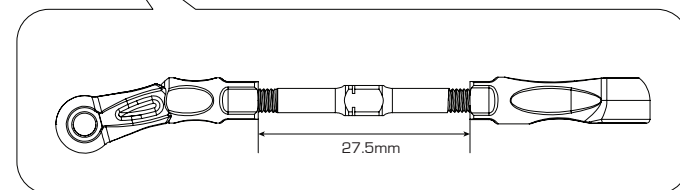
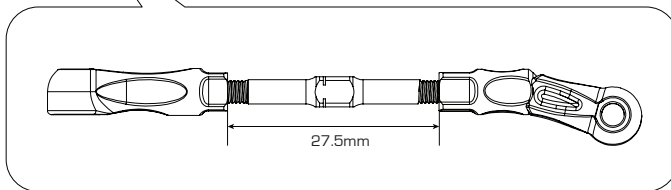
Ball Cup L Type, Long Left

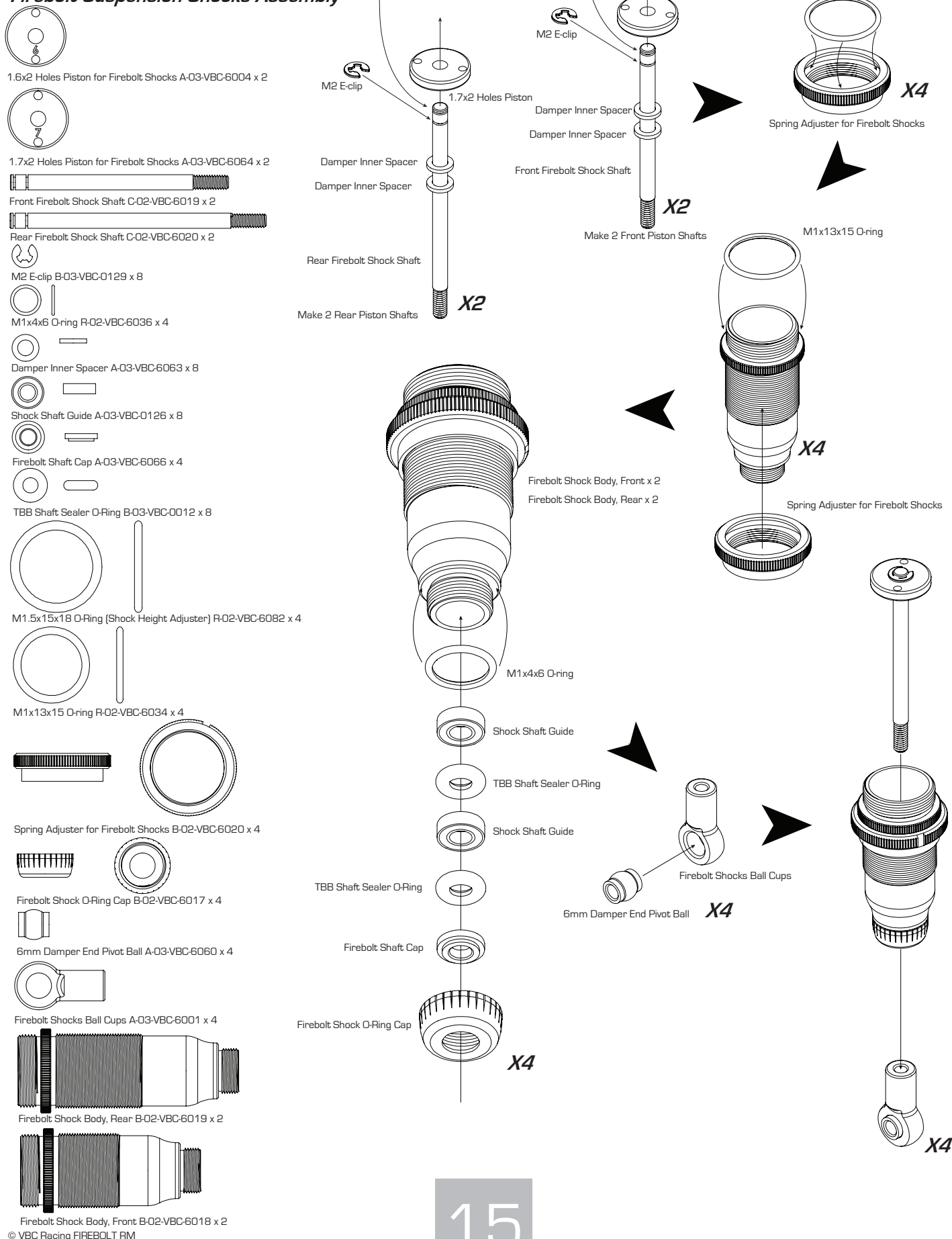


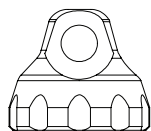
3x45mm Hardened Turnbuckle



Ball Cups, Long



20**Firebolt Suspension Shocks Assembly**

21**Front Suspension Assembly Part 1**

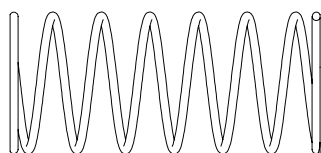
Firebolt Alum Shock Cap B-02-VBC-6021 x 4



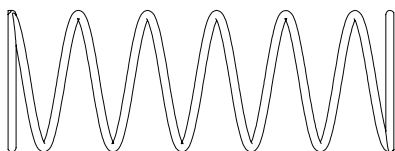
M1x1x3 O-ring R-02-VBC-6035 x 4



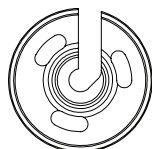
M2x4 Roundhead Screw C-02-SC-R0204 x 4



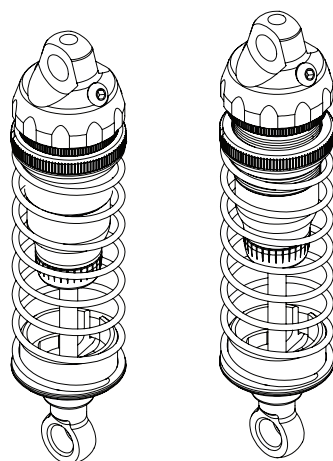
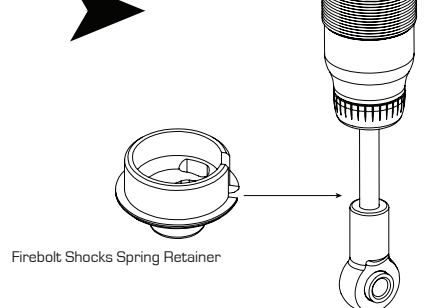
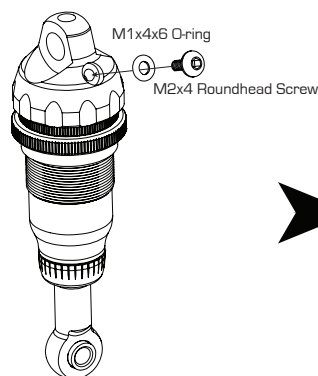
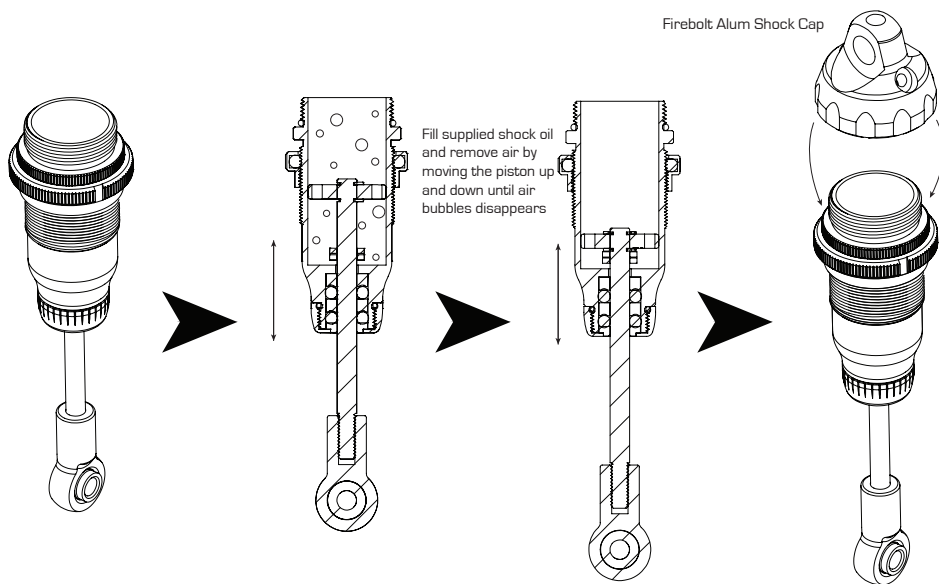
Front Spring, Medium(Red) C-02-VBC-6021 x 2



Rear Spring, Medium(Red) C-02-VBC-6022 x 2



Firebolt Shocks Spring Retainer A-03-VBC-6002 x 4

Front Spring, Medium(Red)
Rear Spring, Medium(Red)

Repeat the above steps on the front and the rear shocks

VBC Racing Firebolt Shock Springs:

Front Spring, Med-Soft(Green) C-02-VBC-6033(Optional)

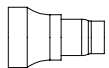
Front Spring, Medium(Red) C-02-VBC-6021

Front Spring, Med-Hard(Orange) C-02-VBC-6030(Optional)

Rear Spring, Med-Soft(Green) C-02-VBC-6031(Optional)

Rear Spring, Medium(Red) C-02-VBC-6022

Rear Spring, Med-Hard(Orange) C-02-VBC-6032(Optional)

22**Installing Front and Rear Suspension Shocks**

Damper Cap Shaft Pivot Ball A-03-VBC-6061 x 4



M3 Plastic Lock Nut A-03-VBC-6062 x 4



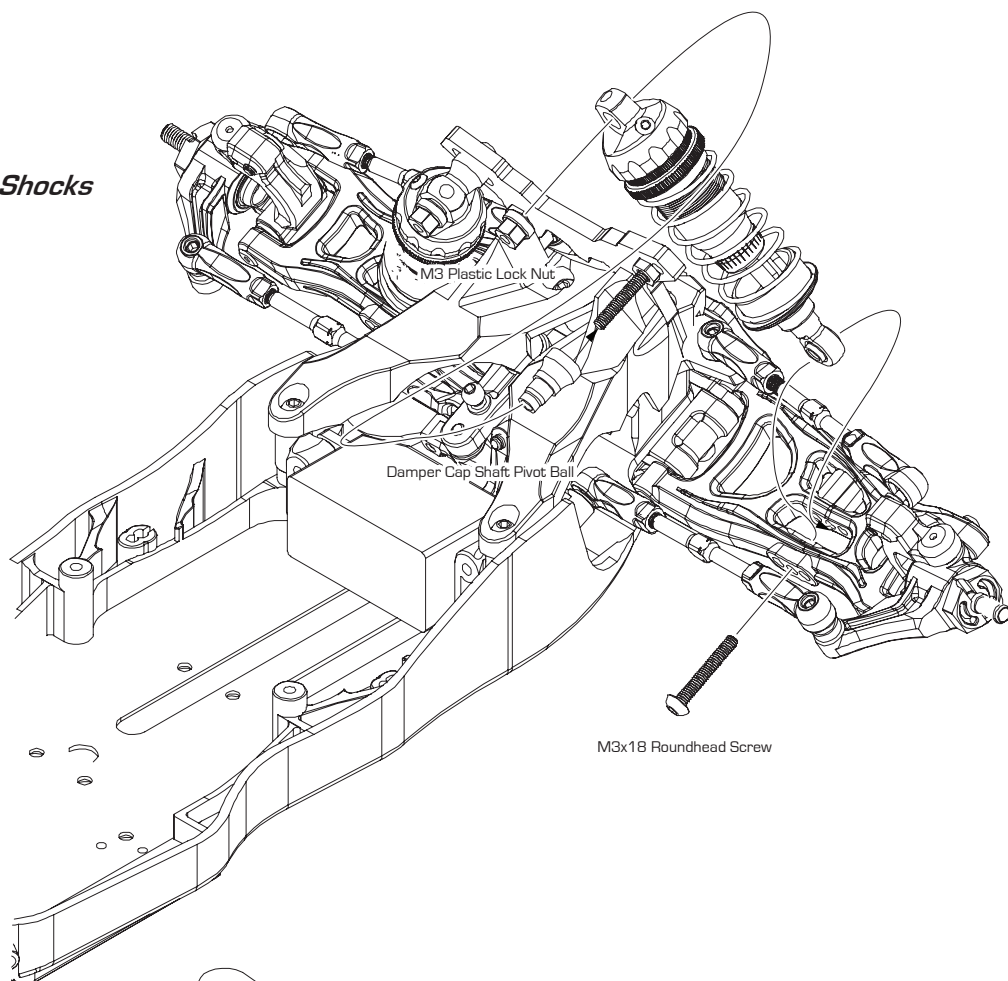
Suspension Arm Spacer T2(Composite) A-03-VBC-0052 x 2



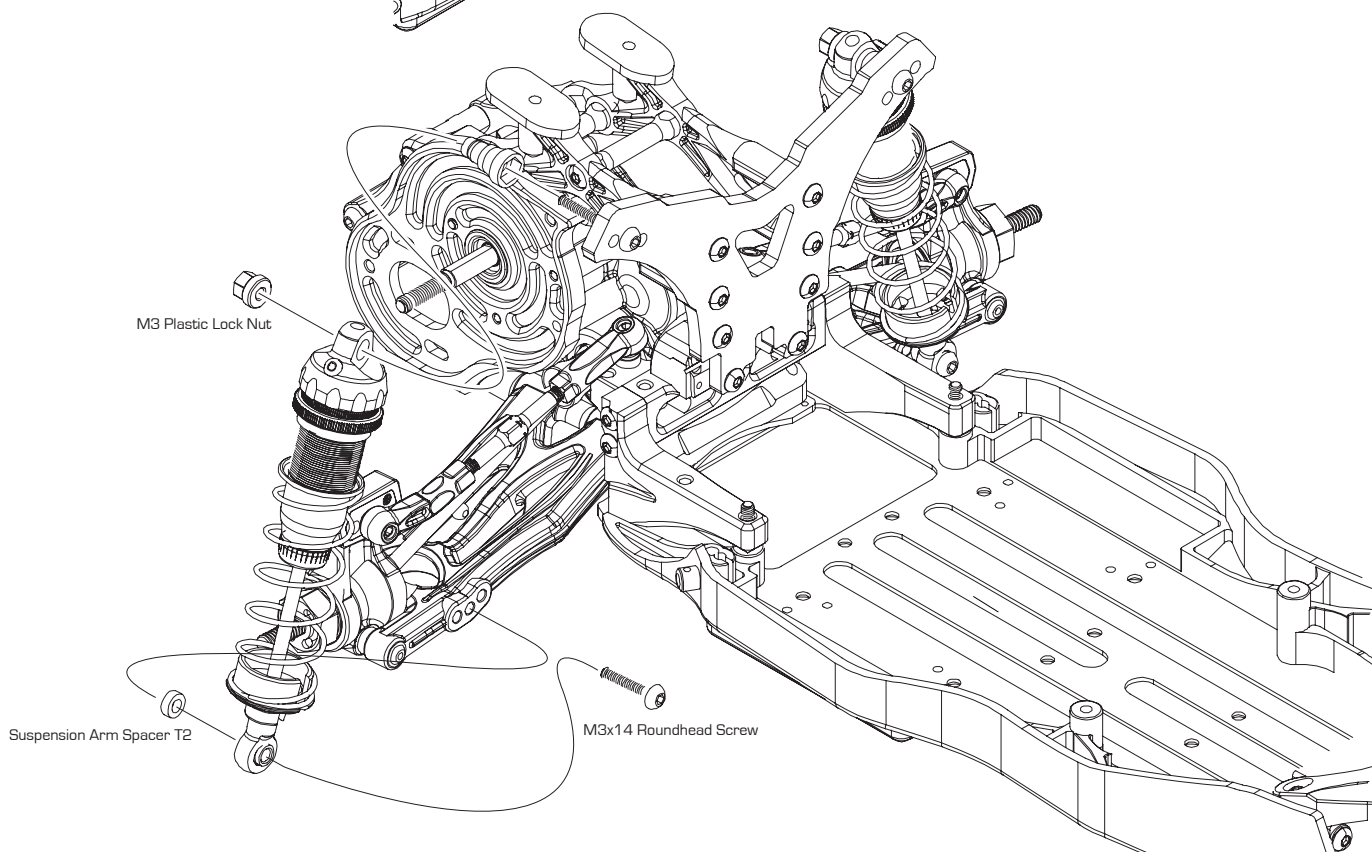
M3x14 Roundhead Screw C-02-SC-R0314 x 2



M3x18 Roundhead Screw C-02-SC-R0318 x 2



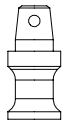
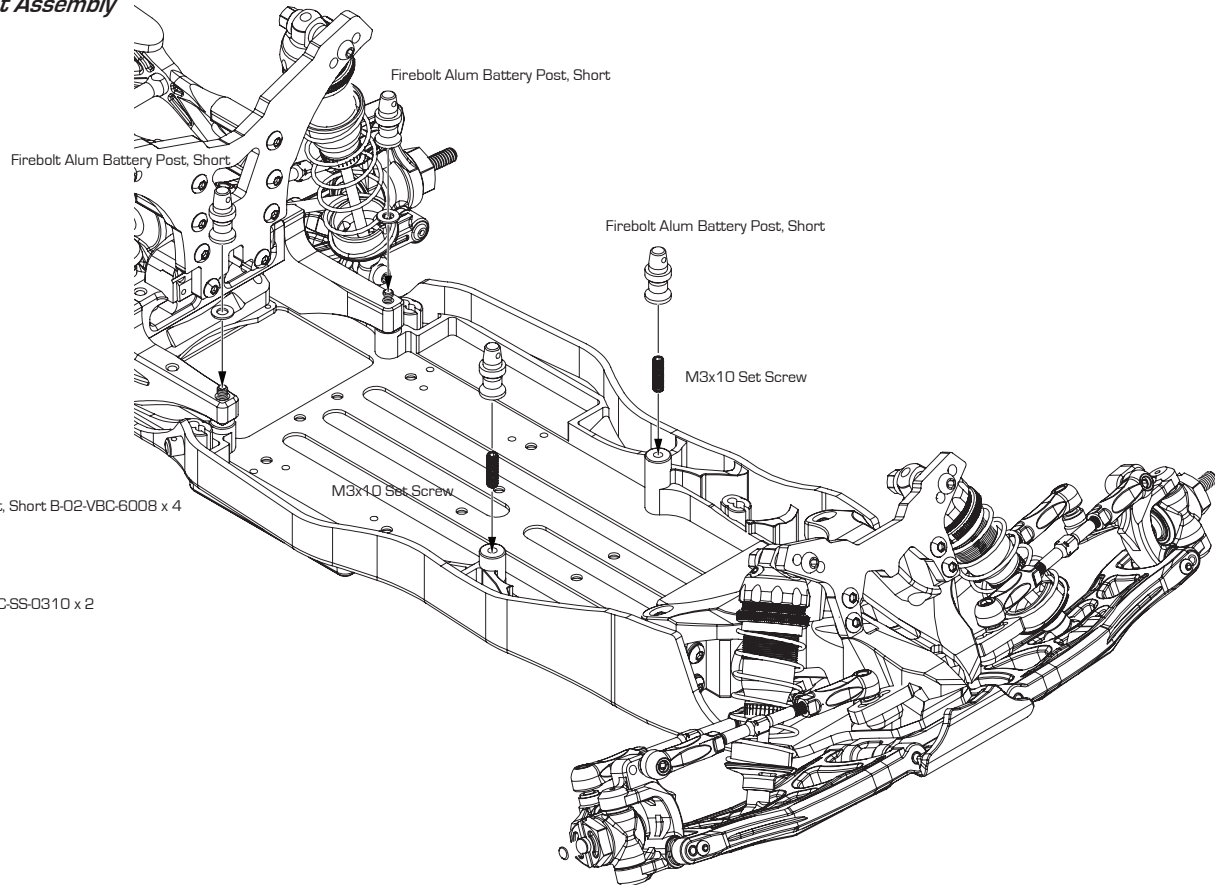
M3x18 Roundhead Screw



M3 Plastic Lock Nut

Suspension Arm Spacer T2

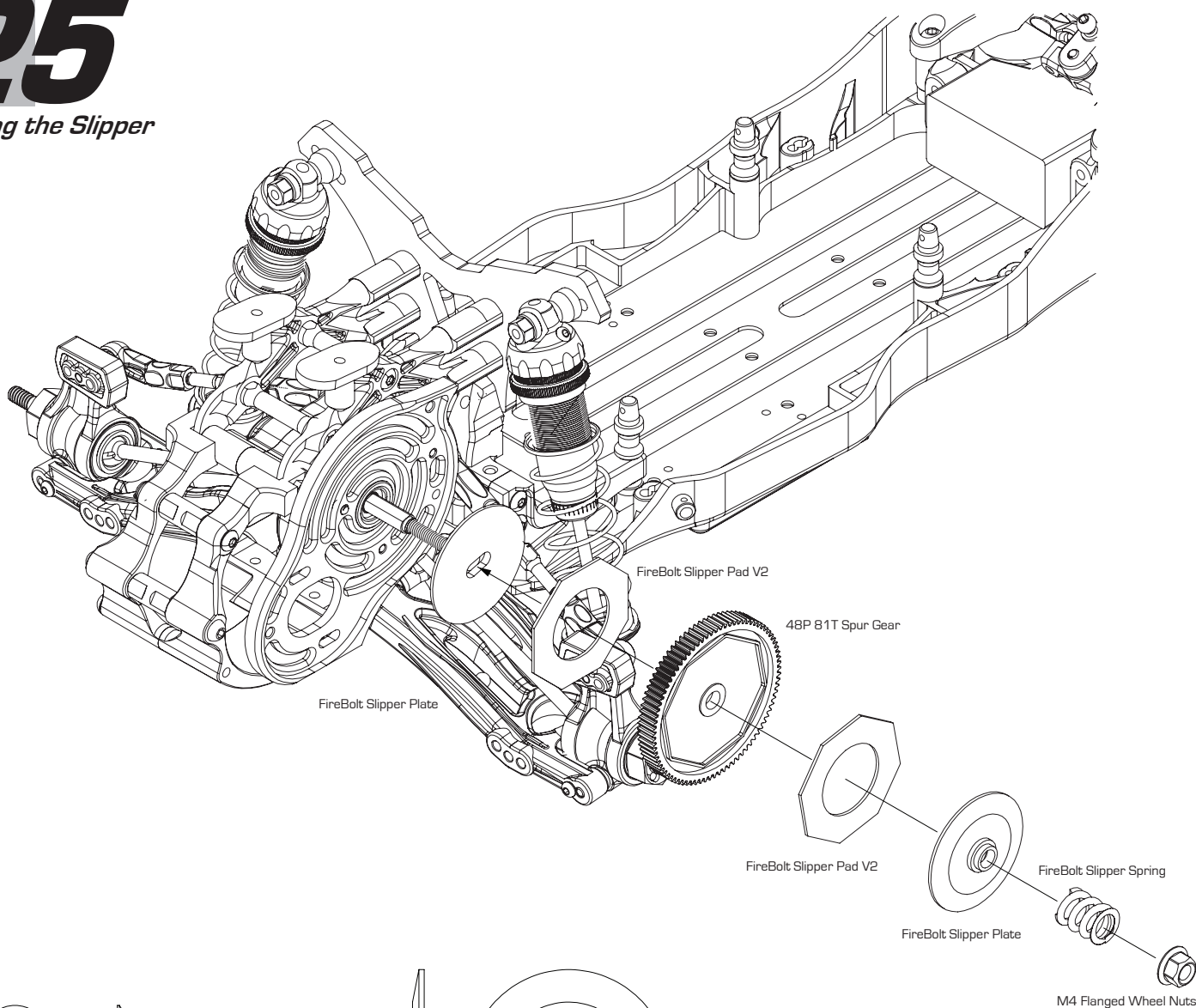
M3x14 Roundhead Screw

23**Battery Mount Assembly**

Firebolt Alum Battery Post, Short B-02-VBC-6008 x 4



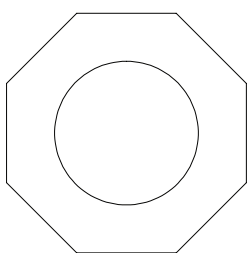
M3x10 Set Screw C-02-SC-SS-0310 x 2

25*Installing the Slipper*

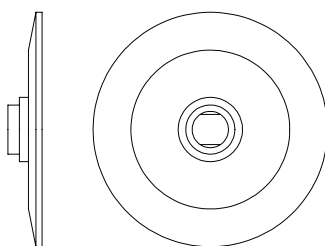
M4 Flanged Wheel Nuts B-02-VBC-0086 x 1



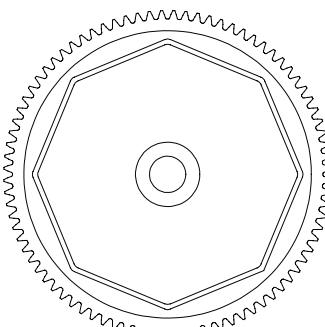
FireBolt Slipper Spring C-03-VBC-6002 x 1



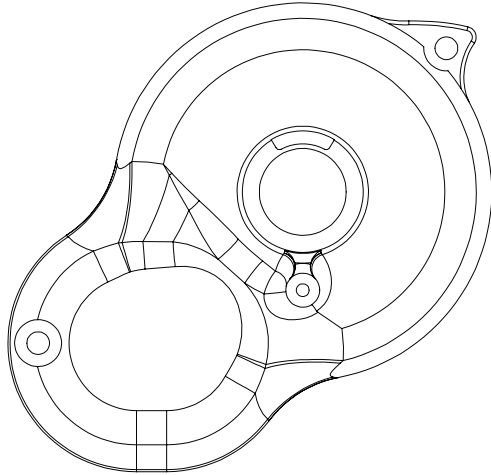
FireBolt Slipper Pad V2 C-03-P60619 x 2



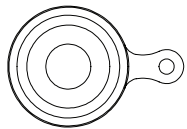
FireBolt Slipper Plate B-02-VBC-6023 x 2



48P 81T Spur Gear V2 A-03-P60618 x 1

26**Intall Gear Diff Cover**

Firebolt Gear Cover A-03-VBC-6006 x 1



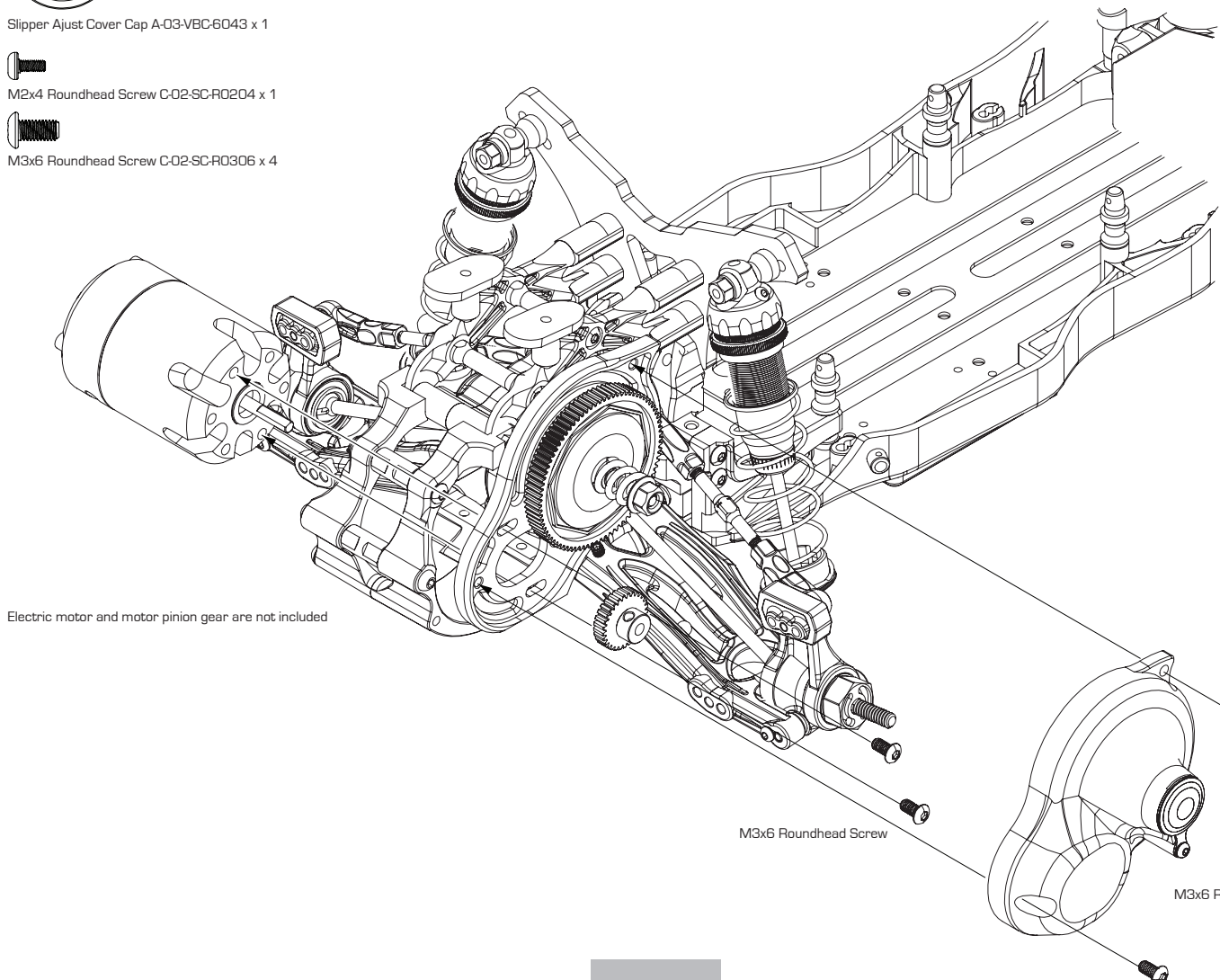
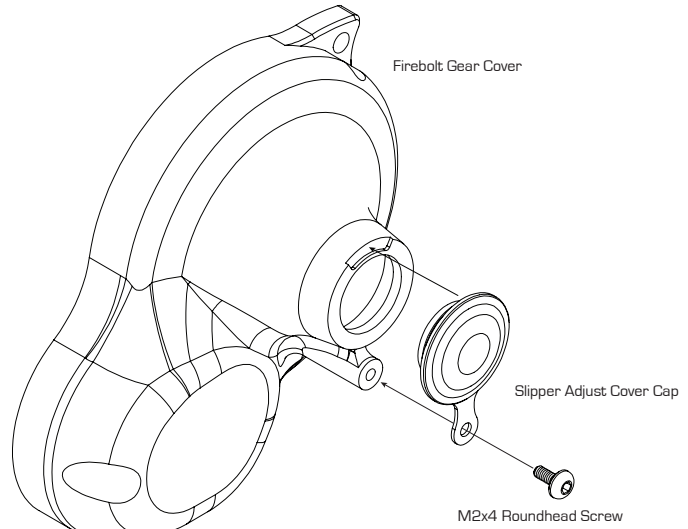
Slipper Adjust Cover Cap A-03-VBC-6043 x 1

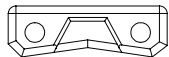


M2x4 Roundhead Screw C-02-SC-R0204 x 1



M3x6 Roundhead Screw C-02-SC-R0306 x 4



27**Mounting Transmitter/ESC/Battery**

Firebolt Center Battery Stopper A-03-VBC-6074 x 2



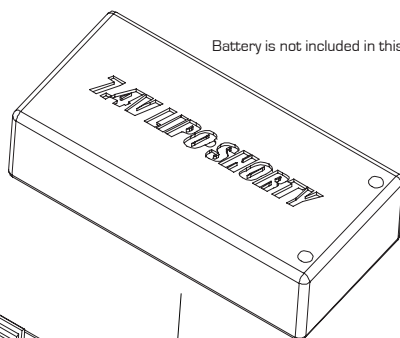
Firebolt Side Battery Stopper X A-03-VBC-6075 x 1



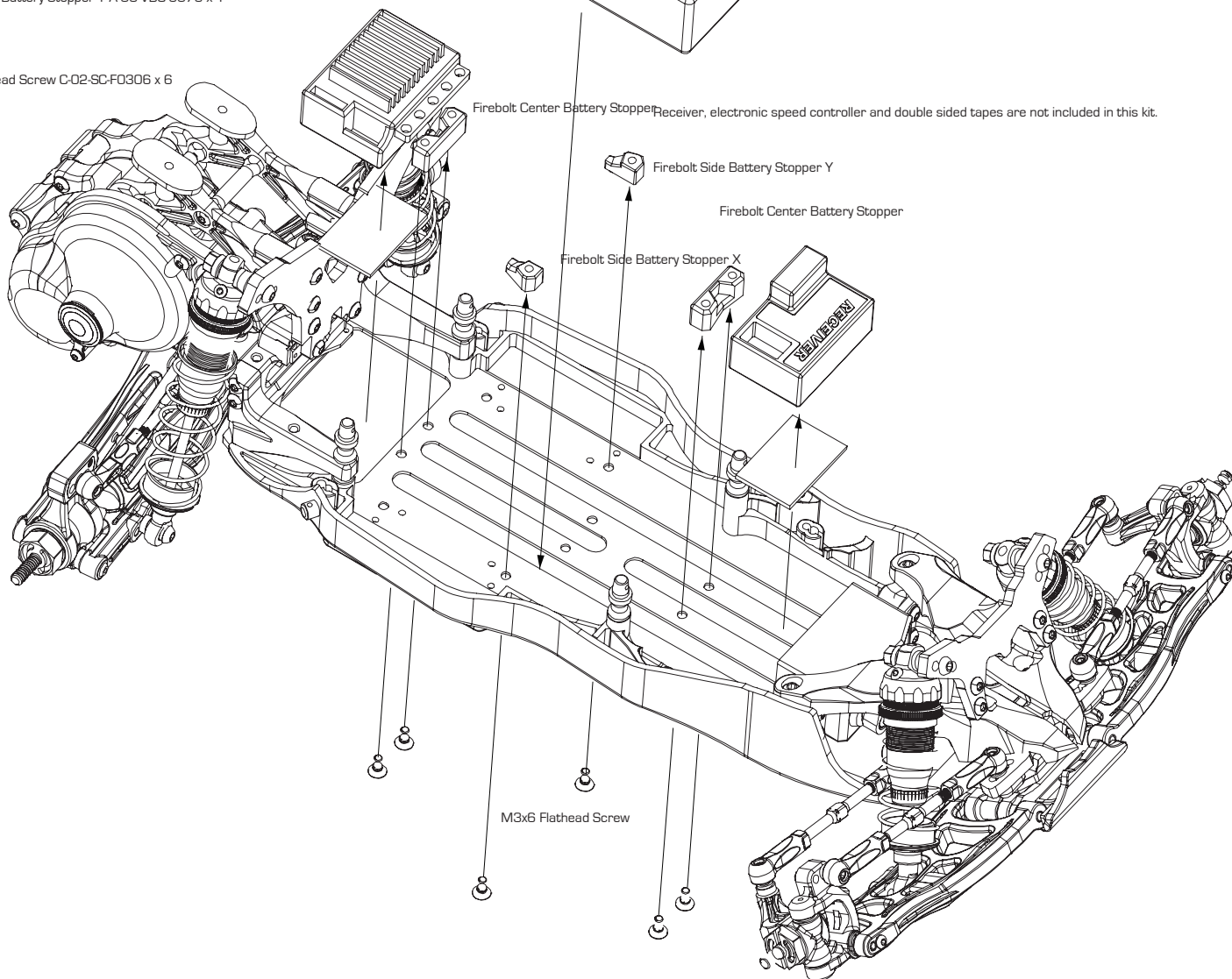
Firebolt Side Battery Stopper Y A-03-VBC-6076 x 1



M3x6 Flathead Screw C-02-SC-F0306 x 6

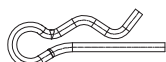
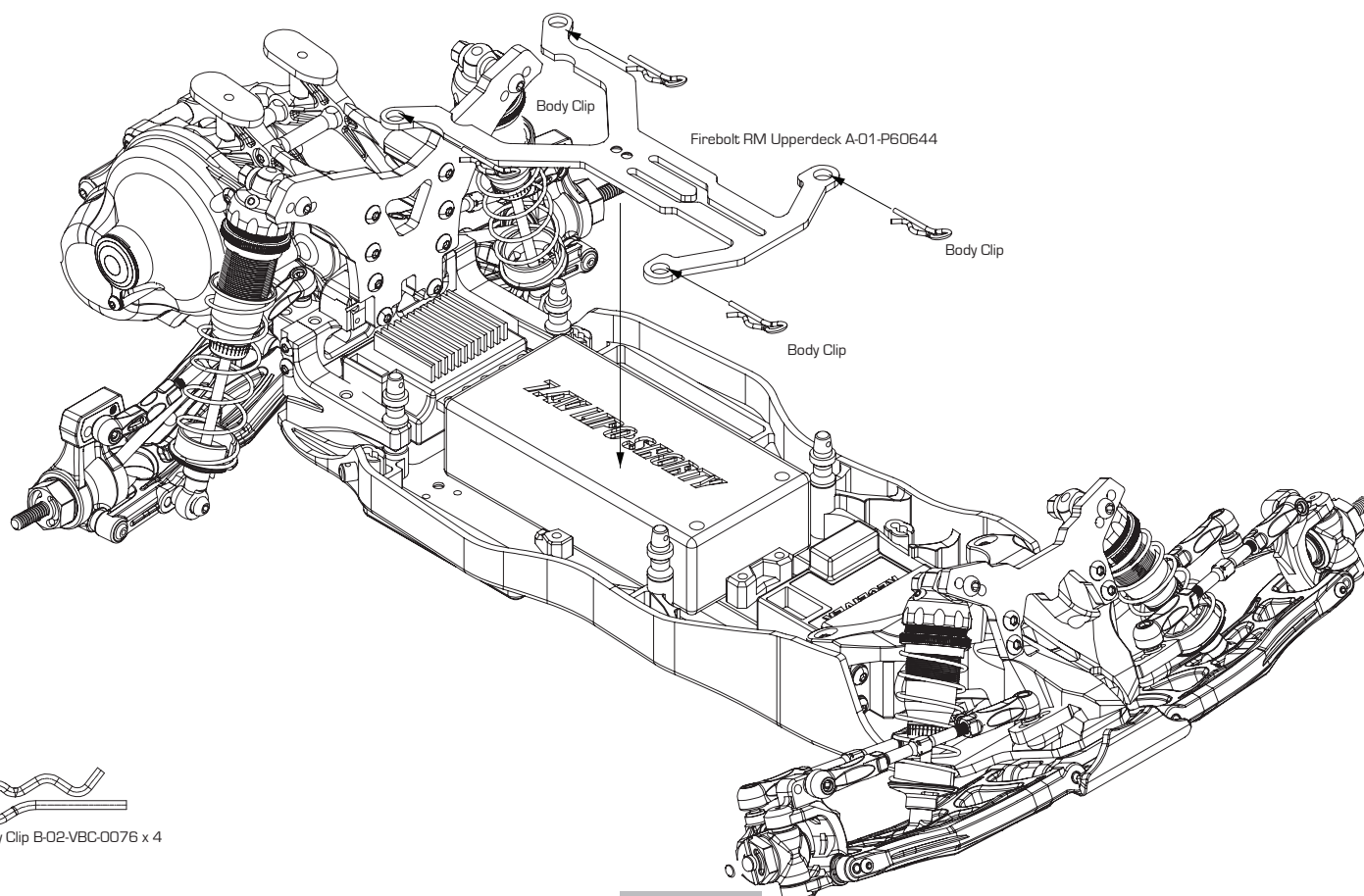
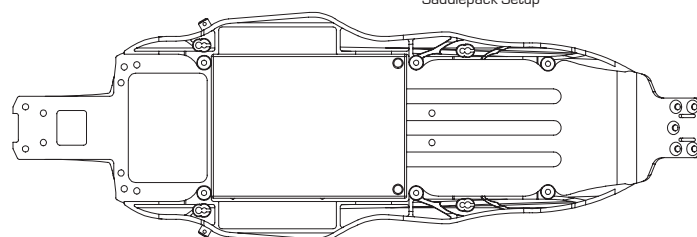
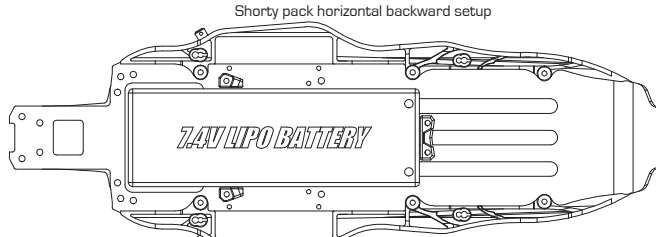
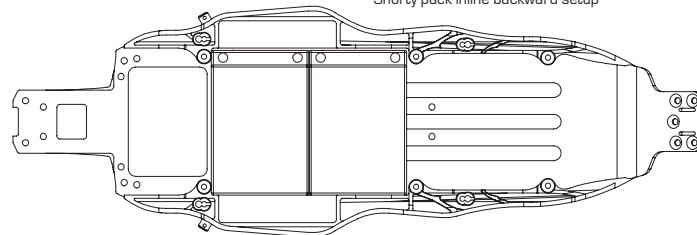
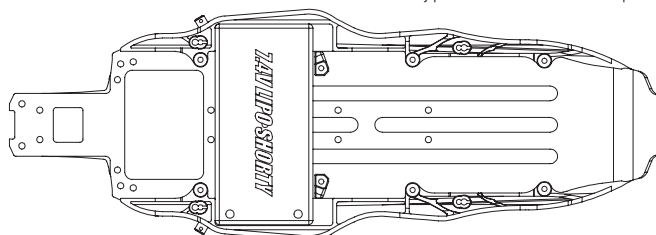
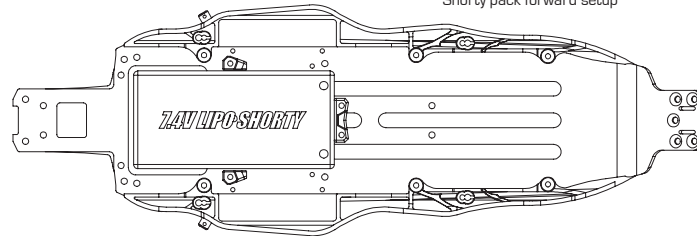
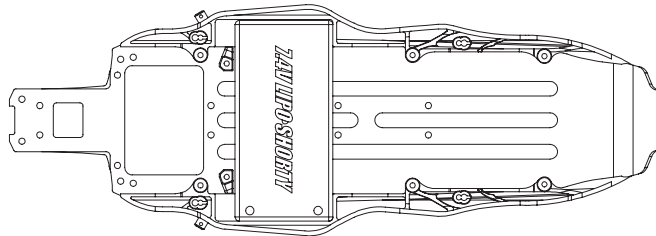
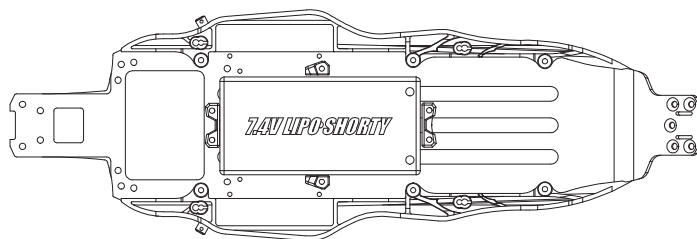


Battery is not included in this kit.



29**Mounting Different Battery Positions**

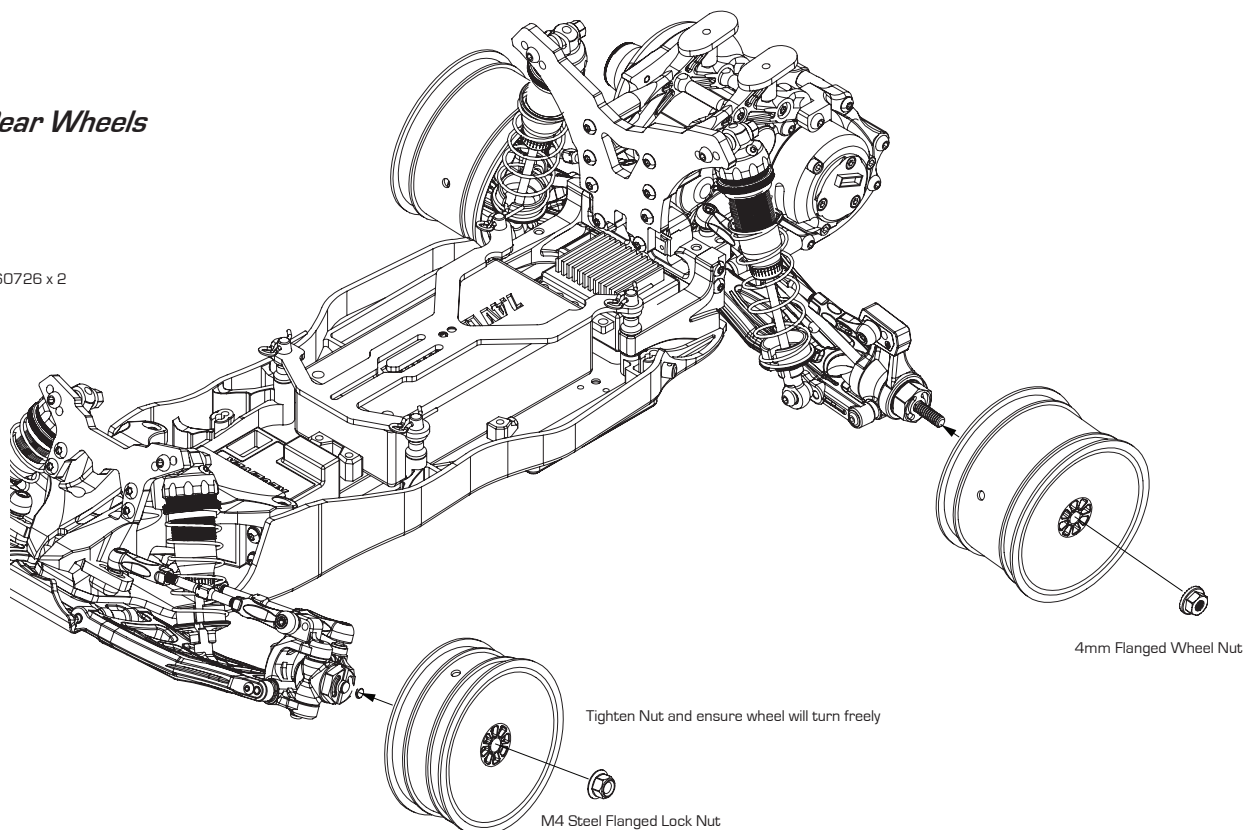
Mounting different batteries on the Firebolt by adjusting the Center and the Side Battery Stoppers



Body Clip B-02-VBC-0076 x 4

30**Install Front and Rear Wheels**

M4 Steel Flanged Lock Nut C-02-P60726 x 2

4mm Flanged Wheel Nut
B-02-VBC-0086 x 2

4mm Flanged Wheel Nut

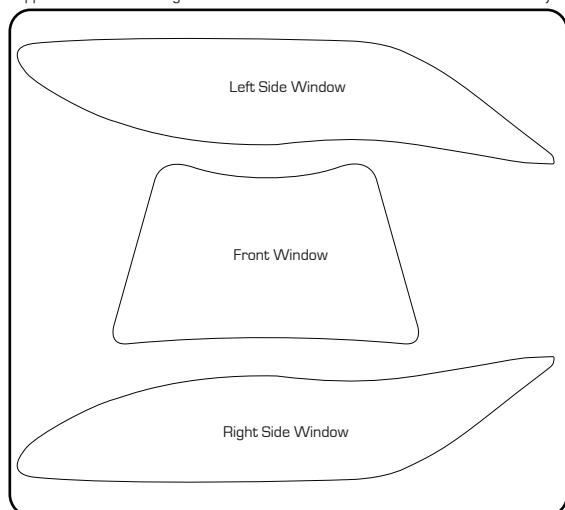
Tighten Nut and ensure wheel will turn freely

M4 Steel Flanged Lock Nut

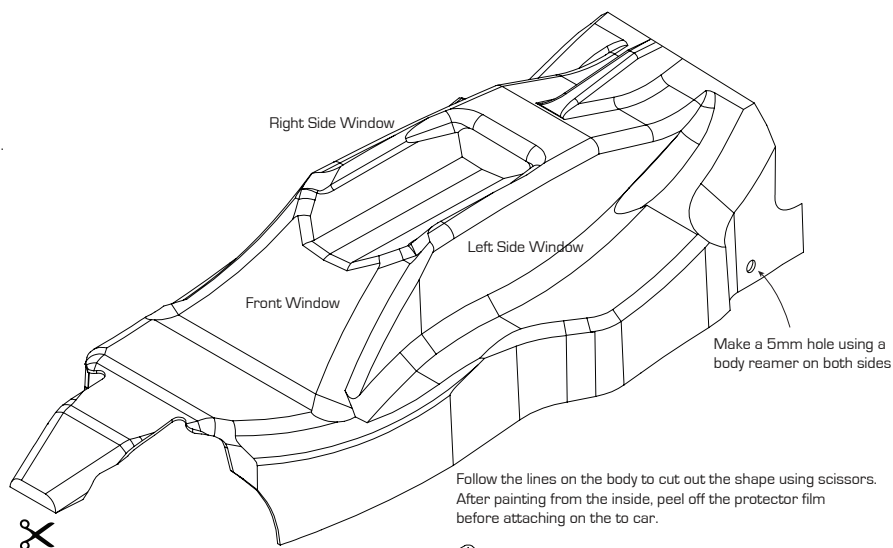
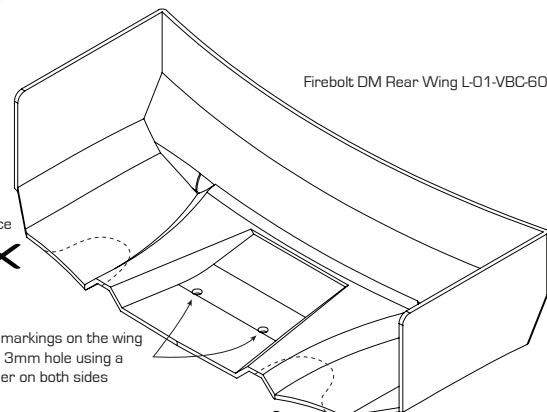
Firebolt DM Car Body L-01-VBC-6001

31**Preparing the Car Body and Rear Wing**

Supplied window masking stickers. Attach the stickers from the inside of the body shell.



Firebolt DM Window Mask L-01-VBC-6106

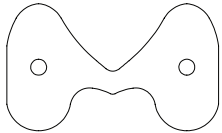
Make a 5mm hole using a
body reamer on both sidesFollow the lines on the body to cut out the shape using scissors.
After painting from the inside, peel off the protector film
before attaching on the to car.Cut these areas to make clearance
for the rear shocksFollow the markings on the wing
to make a 3mm hole using a
body reamer on both sides

Firebolt DM Rear Wing L-01-VBC-6002

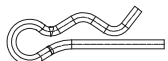
Cut these areas to make clearance
for the rear shocks

32**Installing the Car Body and Rear Wing**

M3x8 Round Head Screw C-02-SC-SS-0308 x 2



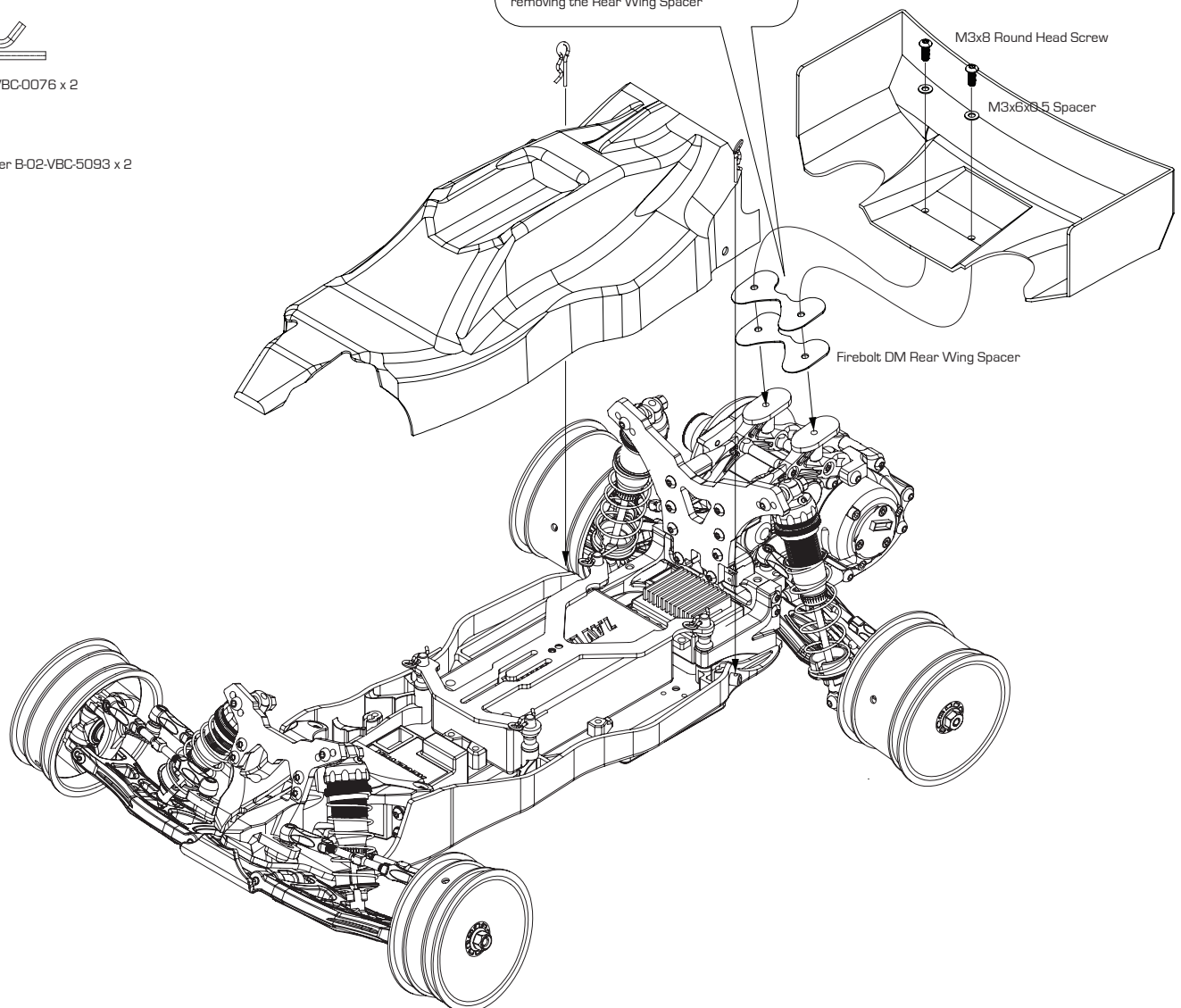
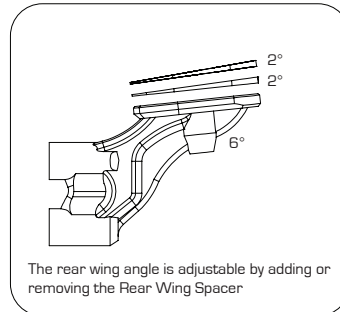
Firebolt DM Rear Wing Spacer A-03-VBC-6037 x 2



Body Clip B-02-VBC-0076 x 2



M3x6x0.5 Spacer B-02-VBC-5093 x 2





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FIREBOLT^{RM}

1/10 RWD ELECTRIC COMPETITION OFFROAD BUGGY CAR KIT

Instruction Book P01-P60762 VBC Racing Firebolt^{RM} Offroad Car Kit D-05-VBC-CK15