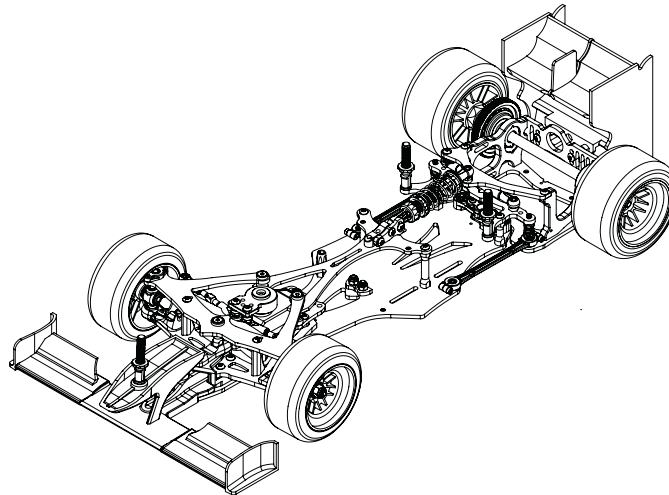


COMPETITION GRADE HIGH PERFORMANCE RADIO CONTROL RACING CAR CHASSIS KIT

LIGHTNING

1/10 SCALE ELECTRIC COMPETITION FORMULA 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 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.

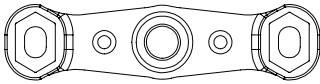
Need help or support.

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.vbc-racing.com

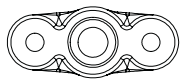


2

Pivot Brace Assembly Part 1



Pivot Brace (bottom) A-03-VBC-5007 x 1



Pivot Brace (cover) A-03-VBC-5008 x 1



M2x6 Cap Head C-02-SC-R2.0x6 x 2



Pivot Balls A-03-VBC-1027 x 5



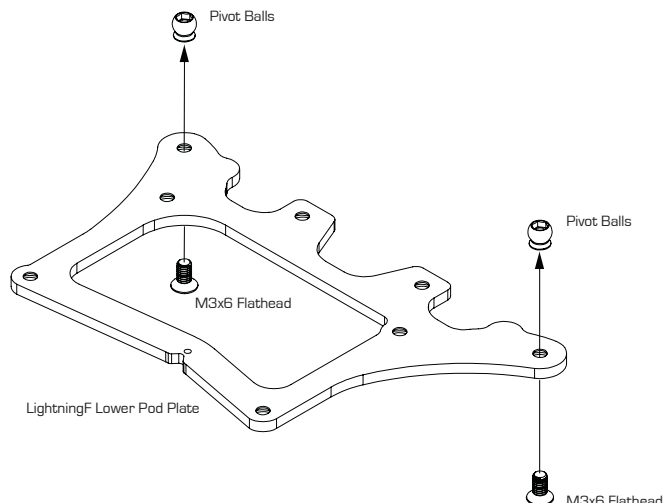
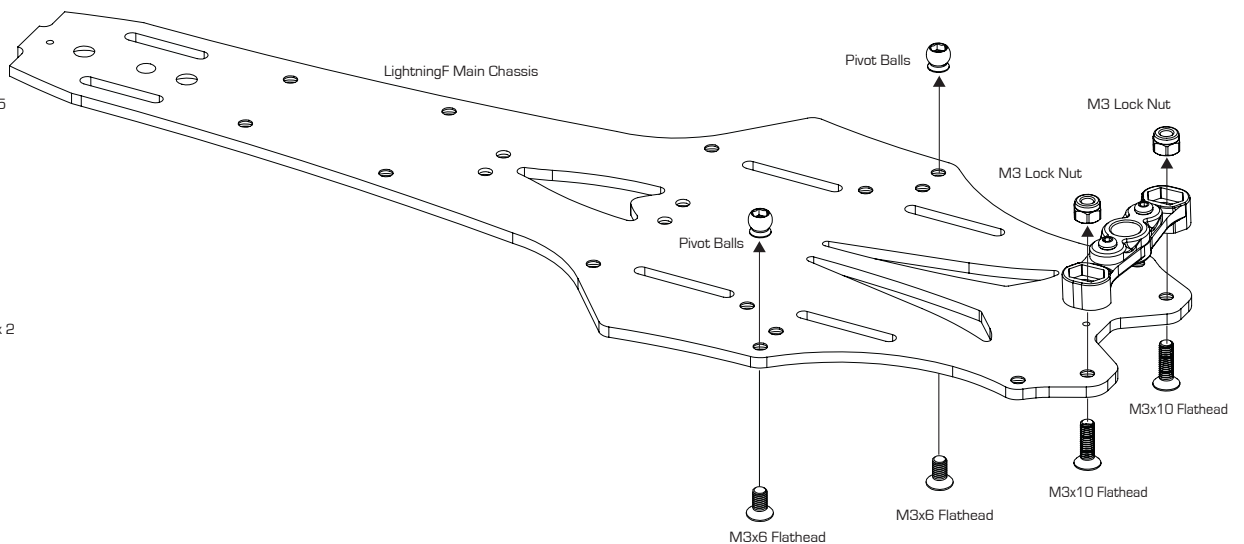
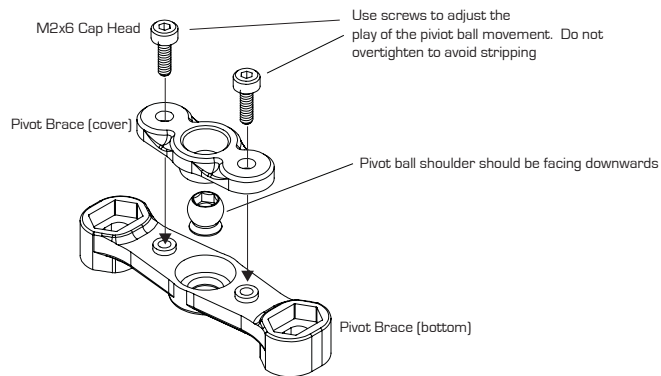
M3x6 Flathead C-02-SC-F0306 x 5



M3 Locknut C-02-SC-NN03 x 2



M3x10 Flathead C-02-SC-F0310 x 2



2

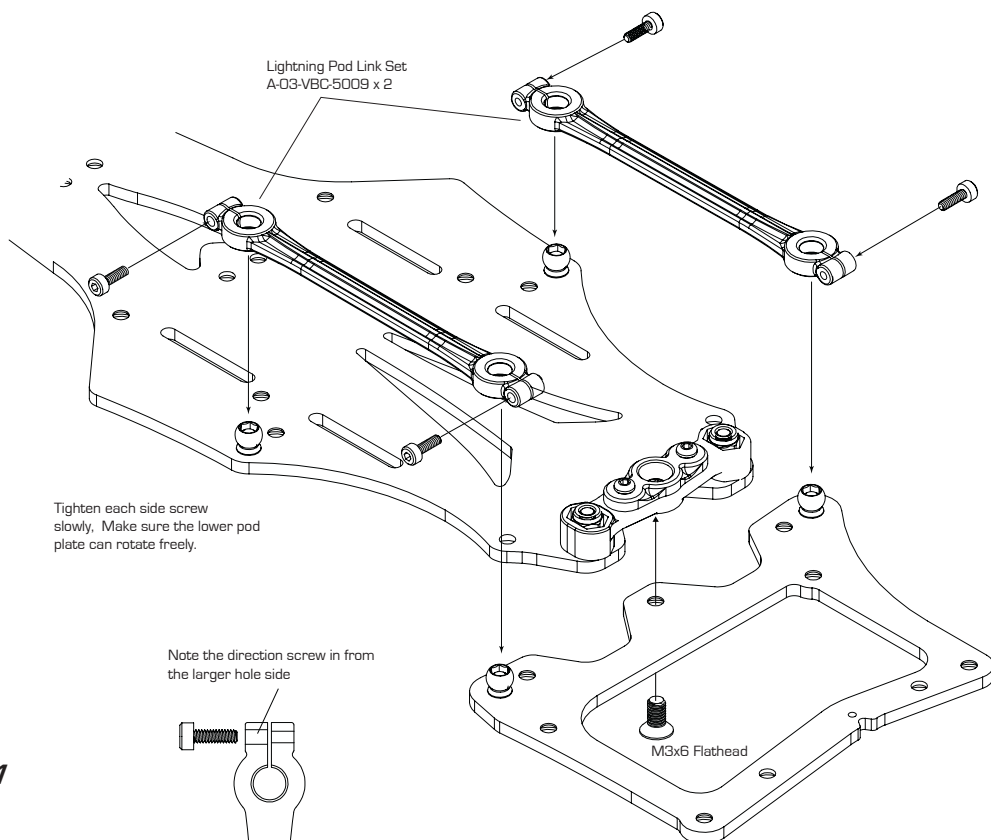
Pivot Brace Assembly Part2



M2x6 Cap Head C-02-SC-R2.0x6 x 4

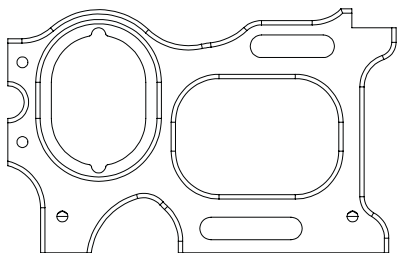


M3x6 Flathead C-02-SC-F0306 x 1

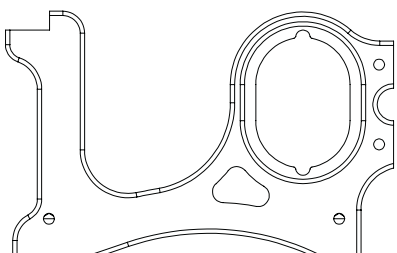


3

Rear Bulkhead Assembly Part1



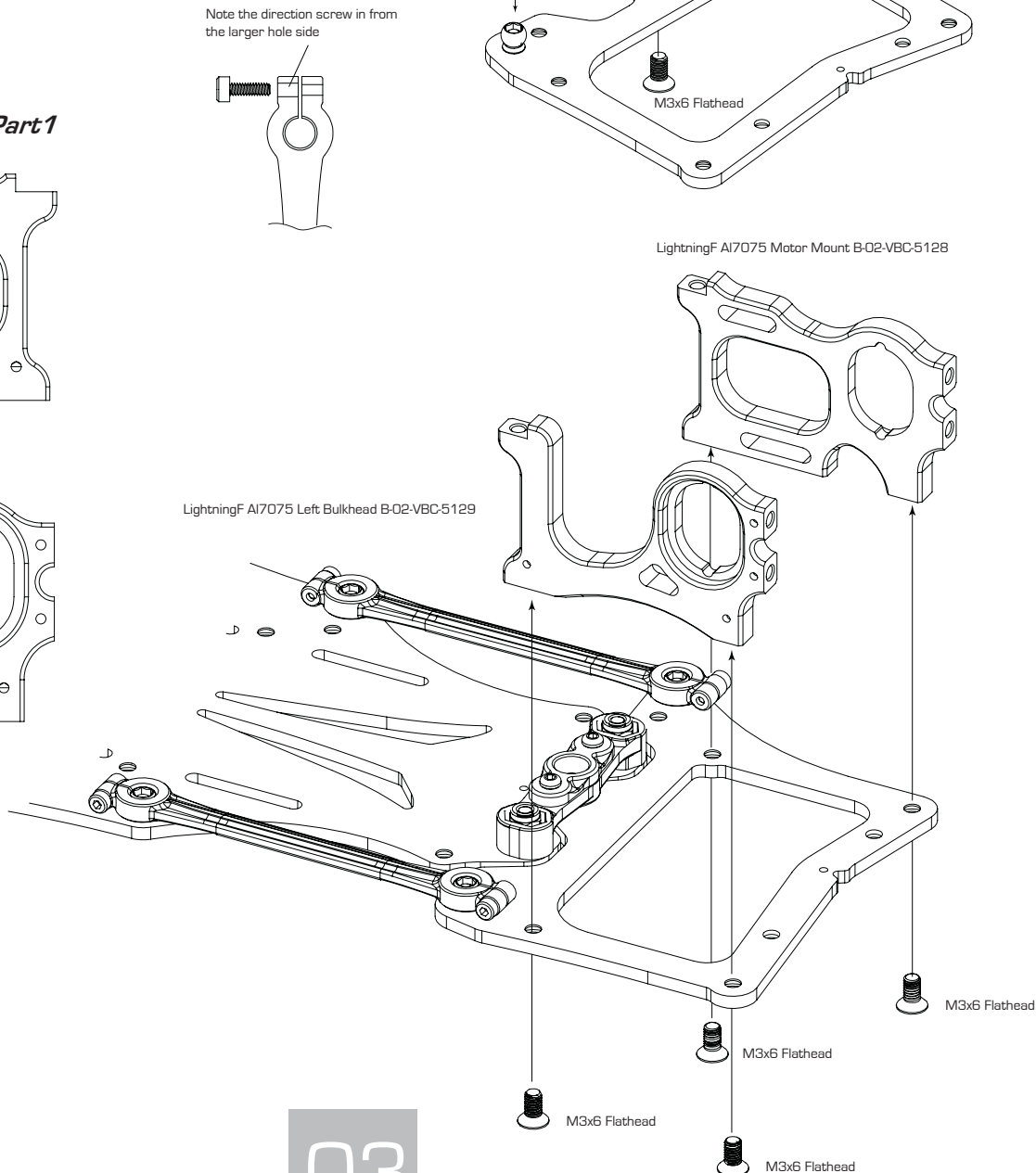
LightningF AI7075 Motor Mount B-02-VBC-5128



LightningF AI7075 Left Bulkhead B-02-VBC-5129



M3x6 Flathead C-02-SC-F0306 x 4



3

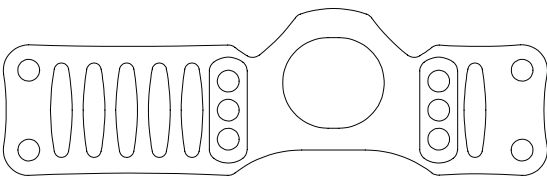
Rear Bulkhead Assembly Part2



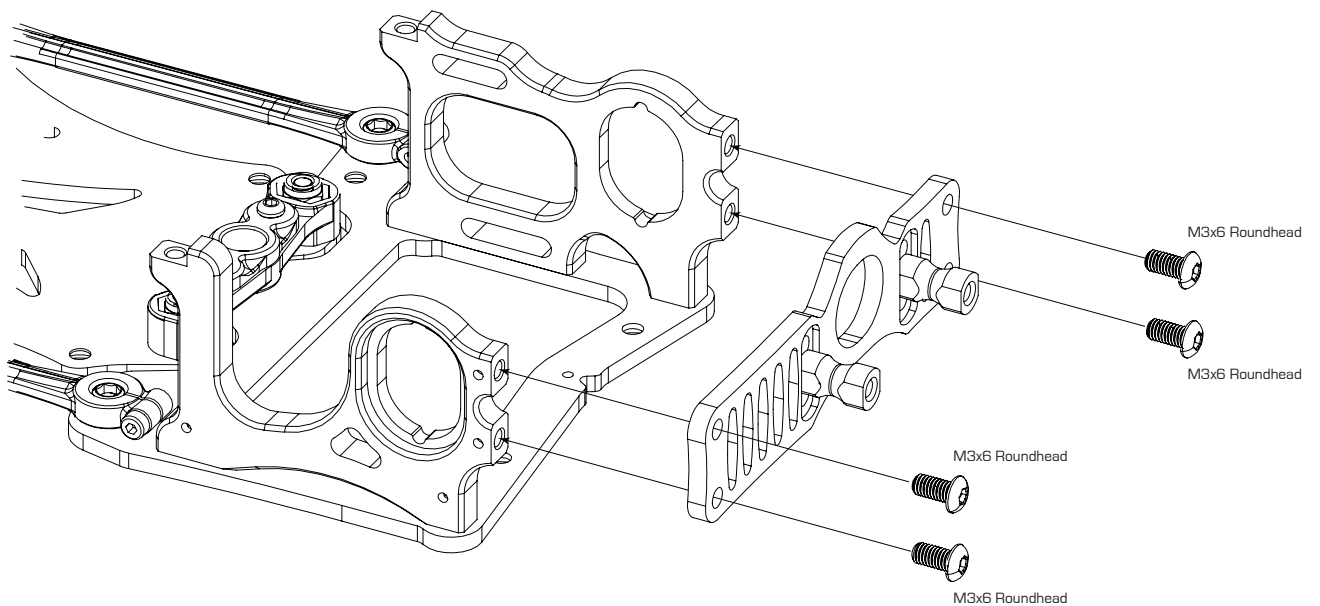
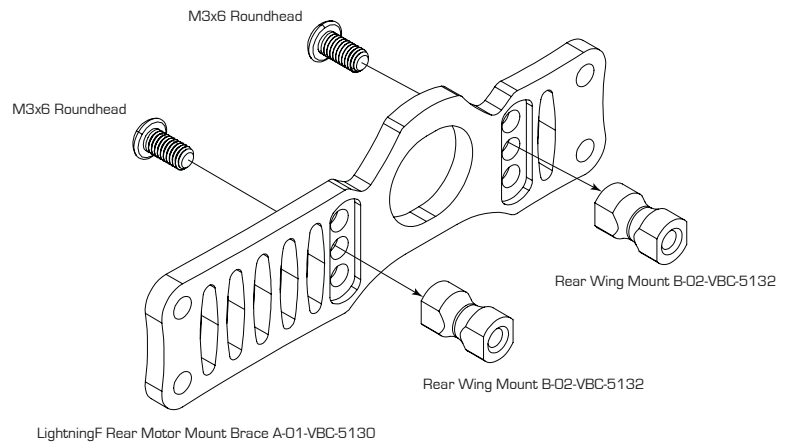
M3x6 Roundhead C-02-SC-R0306 x 6



Rear Wing Mount B-02-VBC-5132 x 2

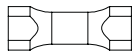


LightningF Rear Motor Mount Brace A-01-VBC-5130 x 1



4

Rear Chassis Brace Assembly



17mm Aluminum Standoff B-02-VBC-5005 x 2



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



4.7mm Ball Nuts B-02-VBC-5020 x 1



M3x6 Roundhead C-02-SC-R0306 x 3



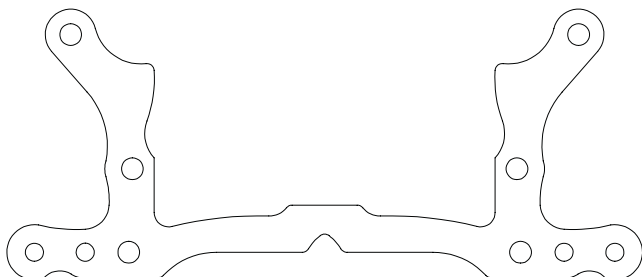
Aluminum Side Spring Retainer B-02-VBC-5074 x 2



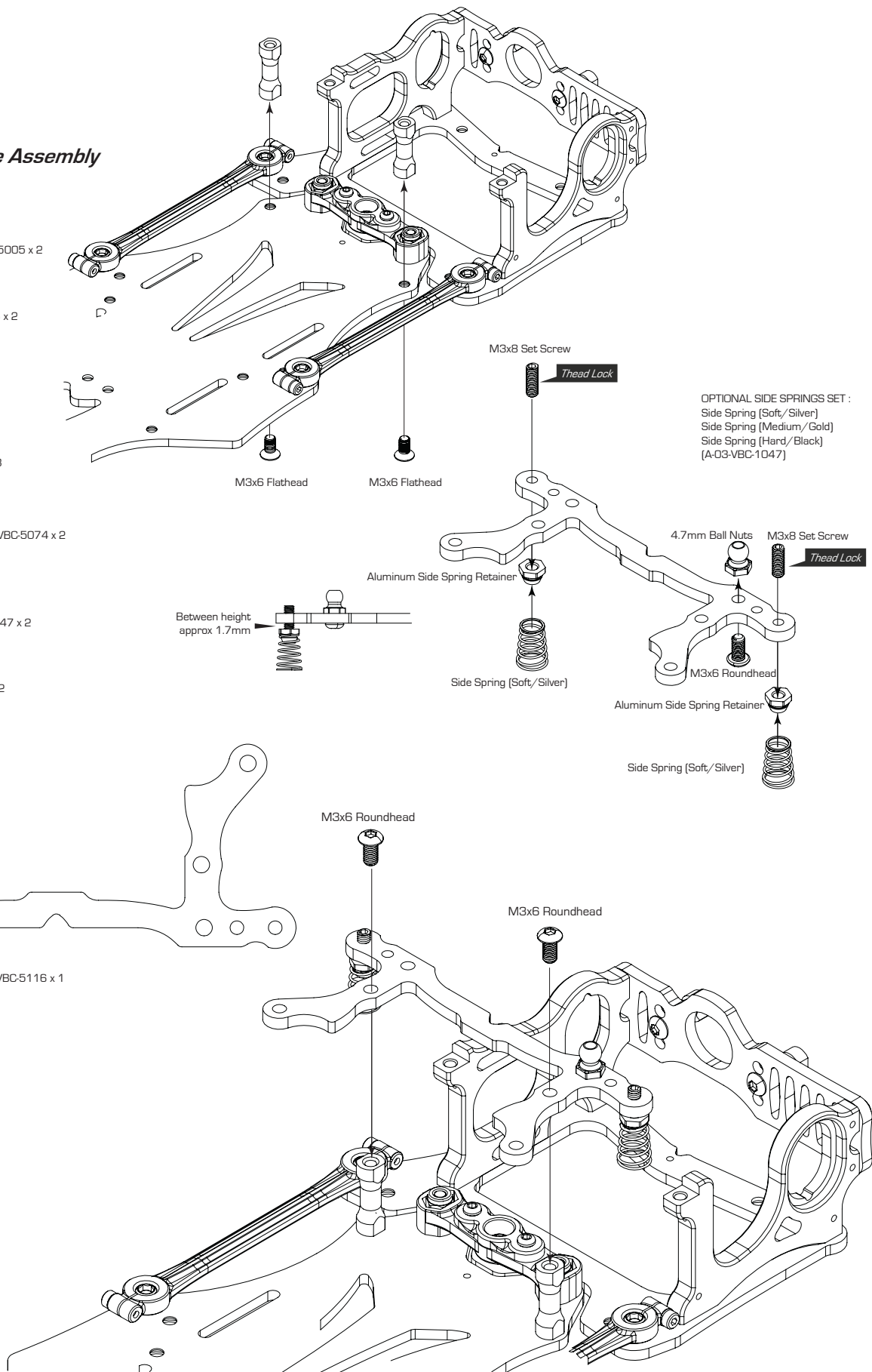
Side Spring (Soft/Silver) A-03-VBC-1047 x 2



M3x8 Set Screw C-02-SC-SS-0308 x 2



LightningF Rear Chassis Brace A-01-VBC-5116 x 1



5

Side Damper Tube Assembly



4.7mm Ball Nuts B-02-VBC-5020 x 2



T2 7075 Spacer B-02-VBC-0019-20 x 1



M3x6 Roundhead C-02-SC-R0306 x 3



M3x8 Roundhead C-02-SC-R0308 x 1



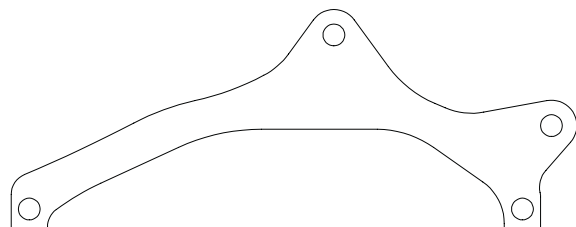
Lightning Damper Tube Shaft B-02-VBC-5018 x 1



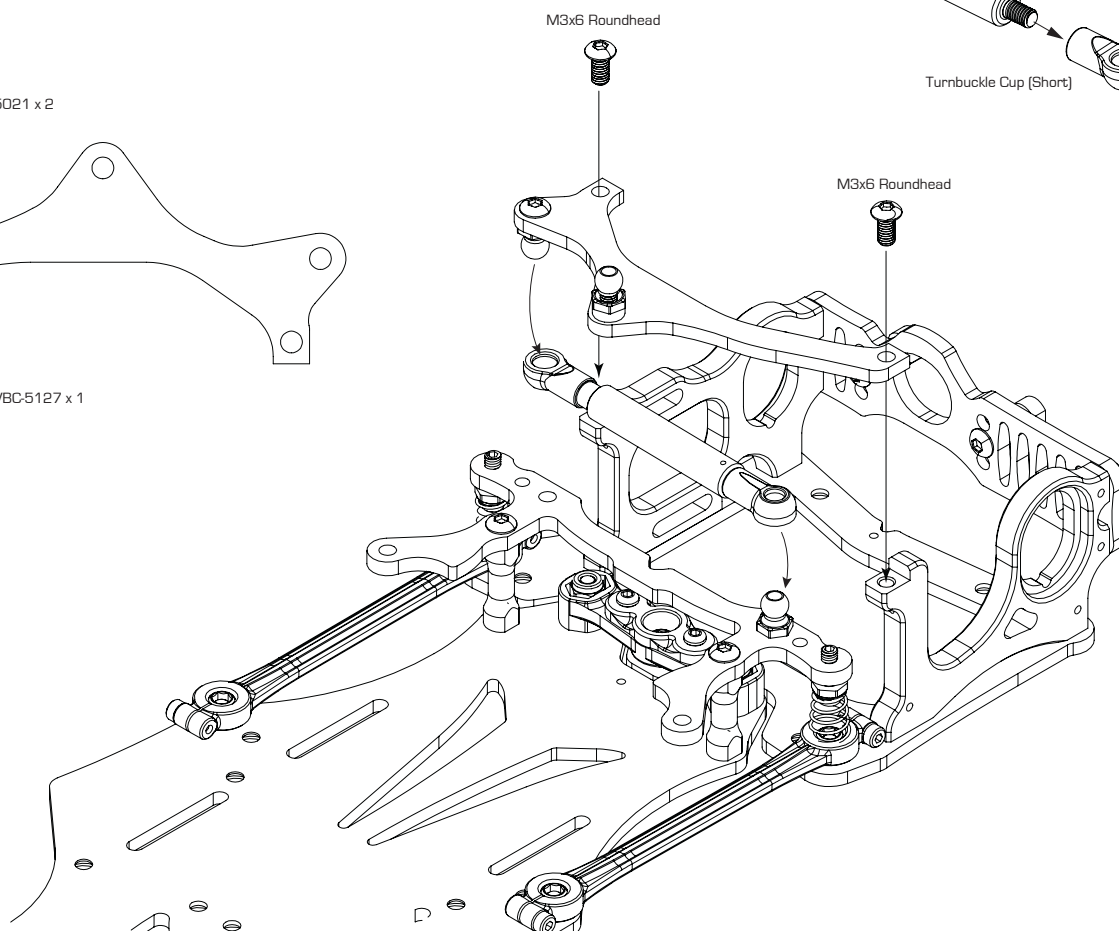
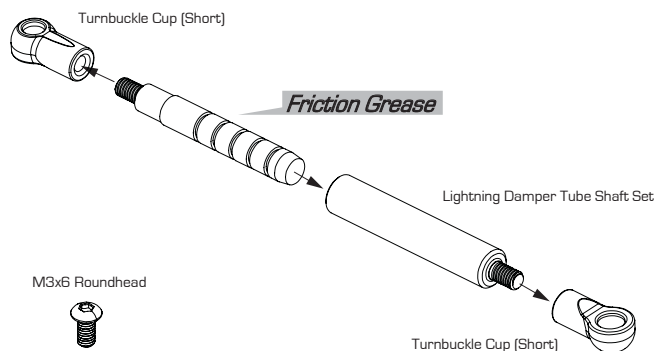
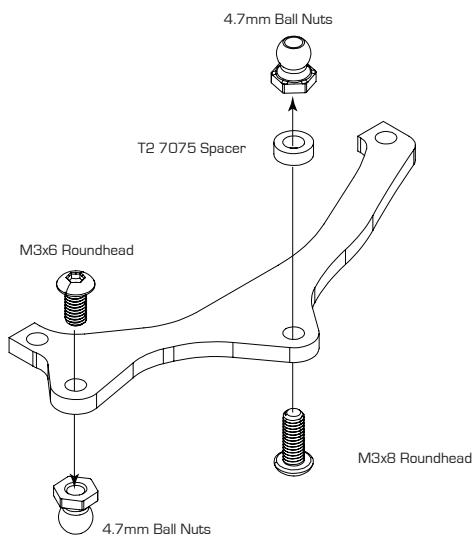
Lightning Damper Tube B-02-VBC-5019 x 1



Turnbuckle Cup (Short) A-03-VBC-5021 x 2

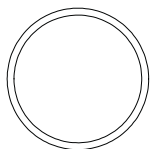


LightningF Upper Pod Plate A-01-VBC-5127 x 1



6

Ball Differential Assembly



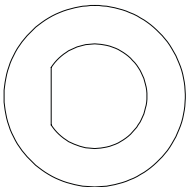
Differential Seal O-ring B-02-VBC-5082 x 2



Ball Bearing Flanged 3/8"x1/4"
C-02-BB-3814F x 3



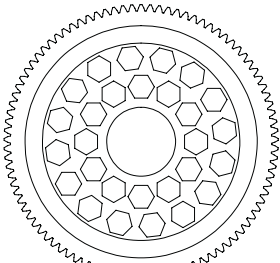
Ball Bearing 3/8"x1/4" C-02-BB-3814 x 1



Differential Drive Ring B-02-VBC-1001 x 2



1/8" Differential Balls C-02-DB-0801 x 16



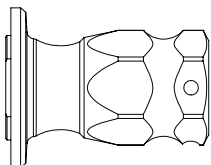
64 Pitch 93T Spur Gear C-02-VBC-5077 x 1



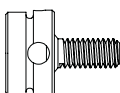
Bevelled Washer C-02-VBC-5076 x 2



Thrust Washer B-02-VBC-5125 x 1



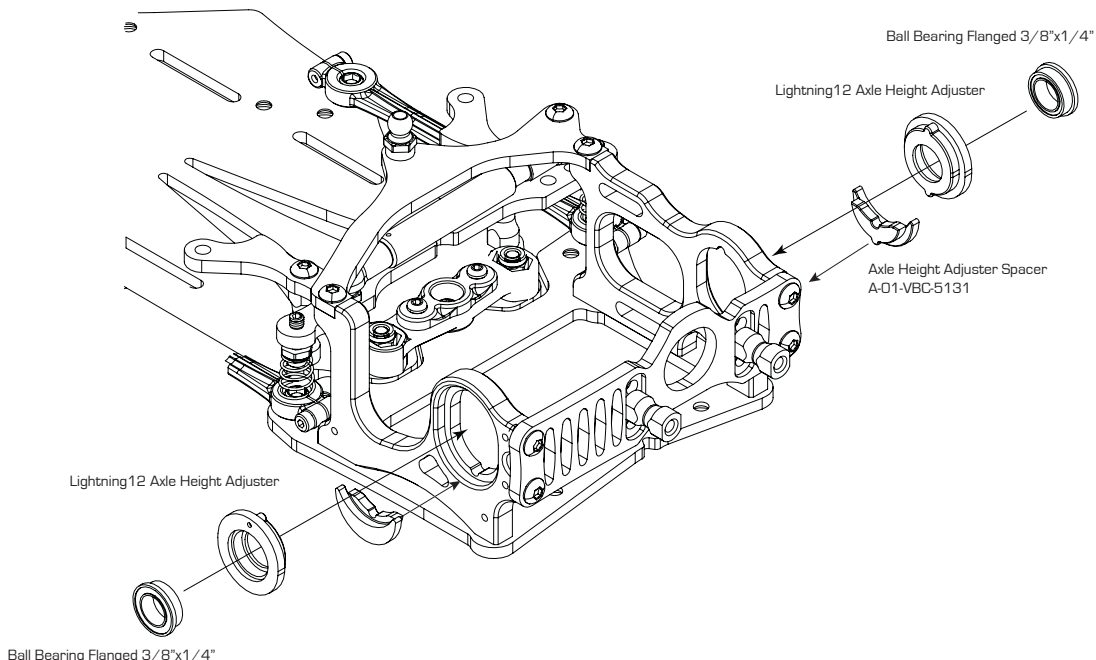
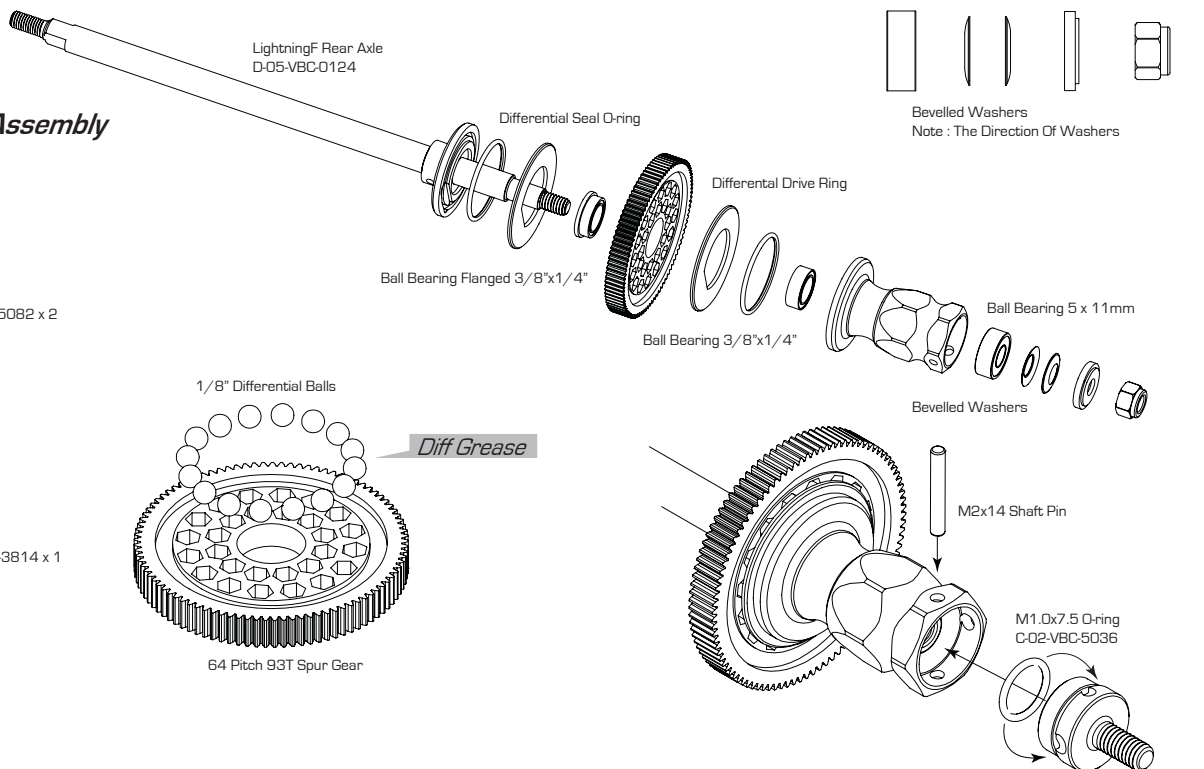
Aluminum Diff Hub B-02-VBC-5123 x 1



Hardened Differential Cap B-02-VBC-5124 x 1

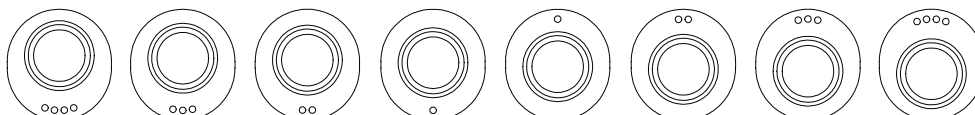
M2x14 Shaft Pin A-03-VBC-1049 x 1

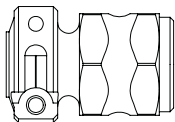
© VBC Racing LIGHTNINGF



Lightning12 Axle Height Adjuster
D-05-VBC-0114

High Low

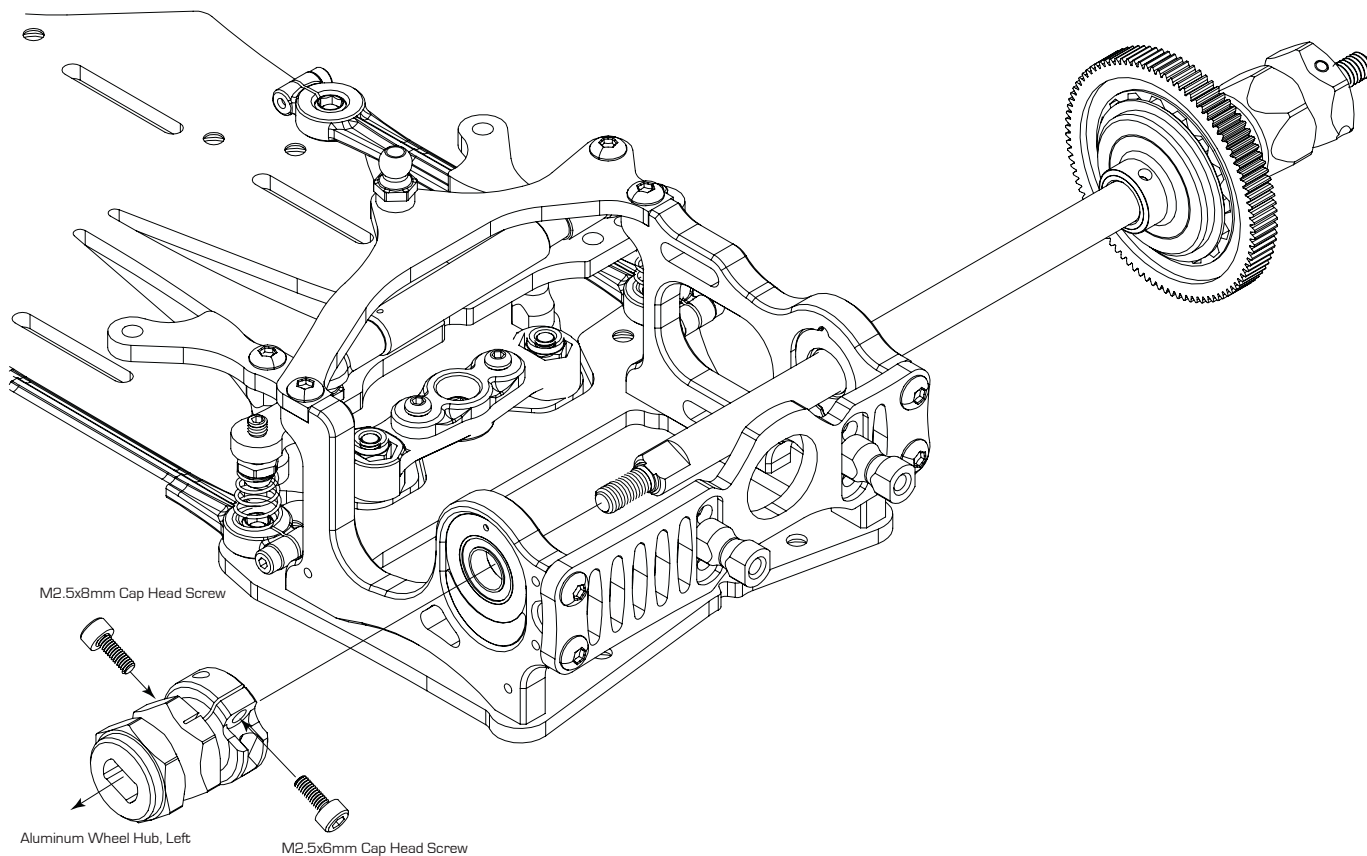


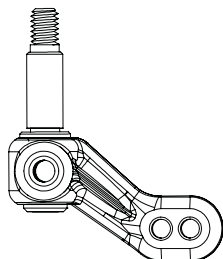
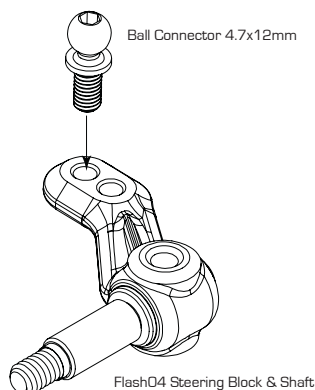
7**Ball Differential Assembly**

Aluminum Wheel Hub, Left B-02-VBC-5122 x 1

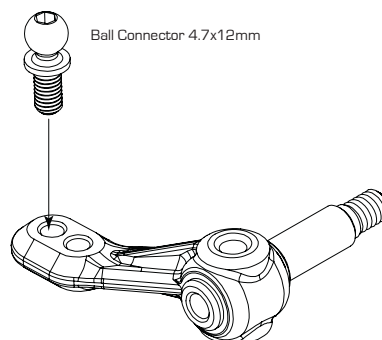


M2.5x6mm Cap Head Screw C-02-SC-R2506 x 2

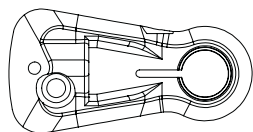


8**Steering Blocks**Flash04 Steering Block & Shaft
D-05-VBC-1003 x 2Ball Connector 4.7x12mm
B-02-VBC-5015 x 2

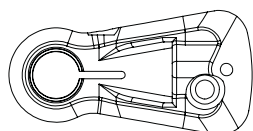
Flash04 Steering Block & Shaft



Flash04 Steering Block & Shaft

9**Front End Assembly**

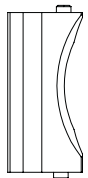
Front Lower Arm Pivot Ball Mount (Right) D-05-VBC-1006 x 1



Front Lower Arm Pivot Ball Mount (Left) D-05-VBC-1006 x 1



Steering Limiter A-03-VBC-1062 x 2



LightningF Front Upper Arm Mount A-01-VBC-5103 x 2



Front Lower Arm Pivot Ball A-03-VBC-1022 x 2



M2x6 Roundhead Screw C-02-SC-R0206 x 2



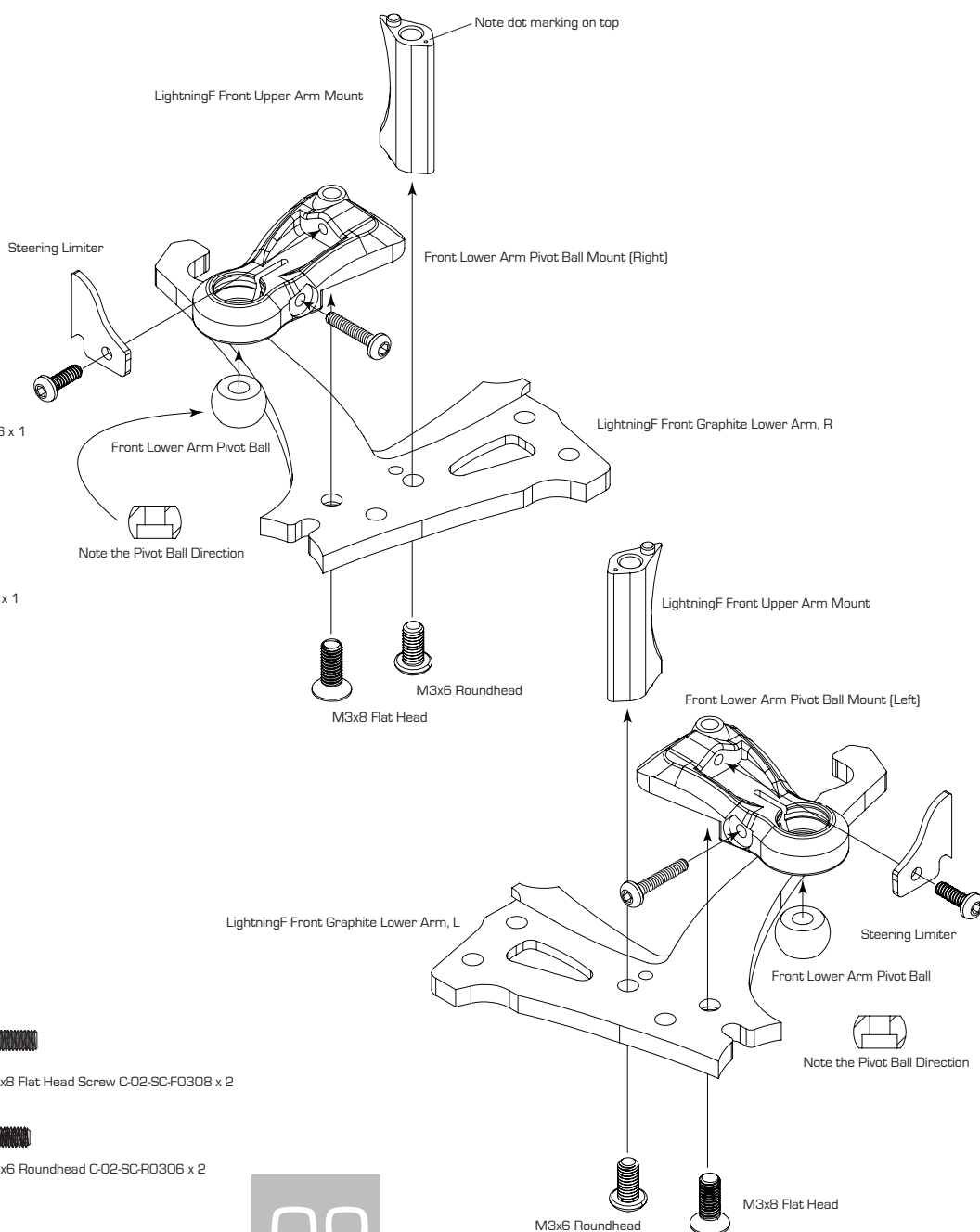
M2x10 Roundhead Screw C-02-SC-R0210 x 2



M3x8 Flat Head Screw C-02-SC-F0308 x 2

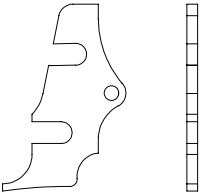


M3x6 Roundhead C-02-SC-R0306 x 2

**09**

10

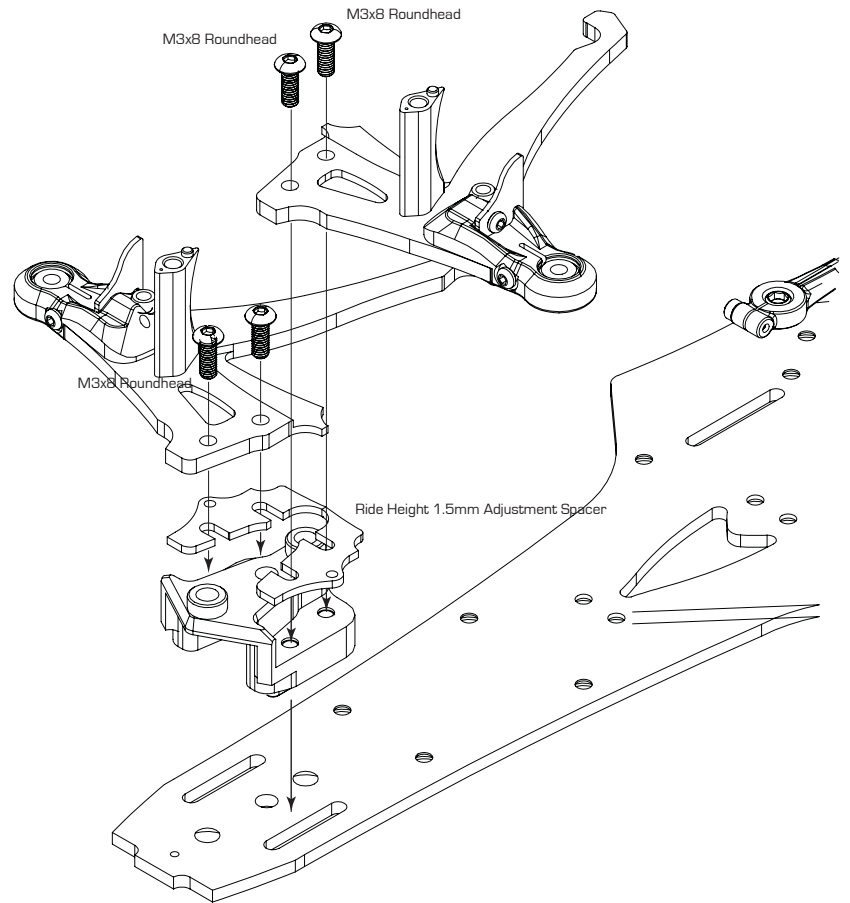
Front End Assembly Continue



Ride Height 1.5mm Adjustment Spacer x 2
D-05-VBC-1018



M3x8 Roundhead C-02-SC-R0308 x 4



LightningF Kingpin C-02-VBC-5111 x 2



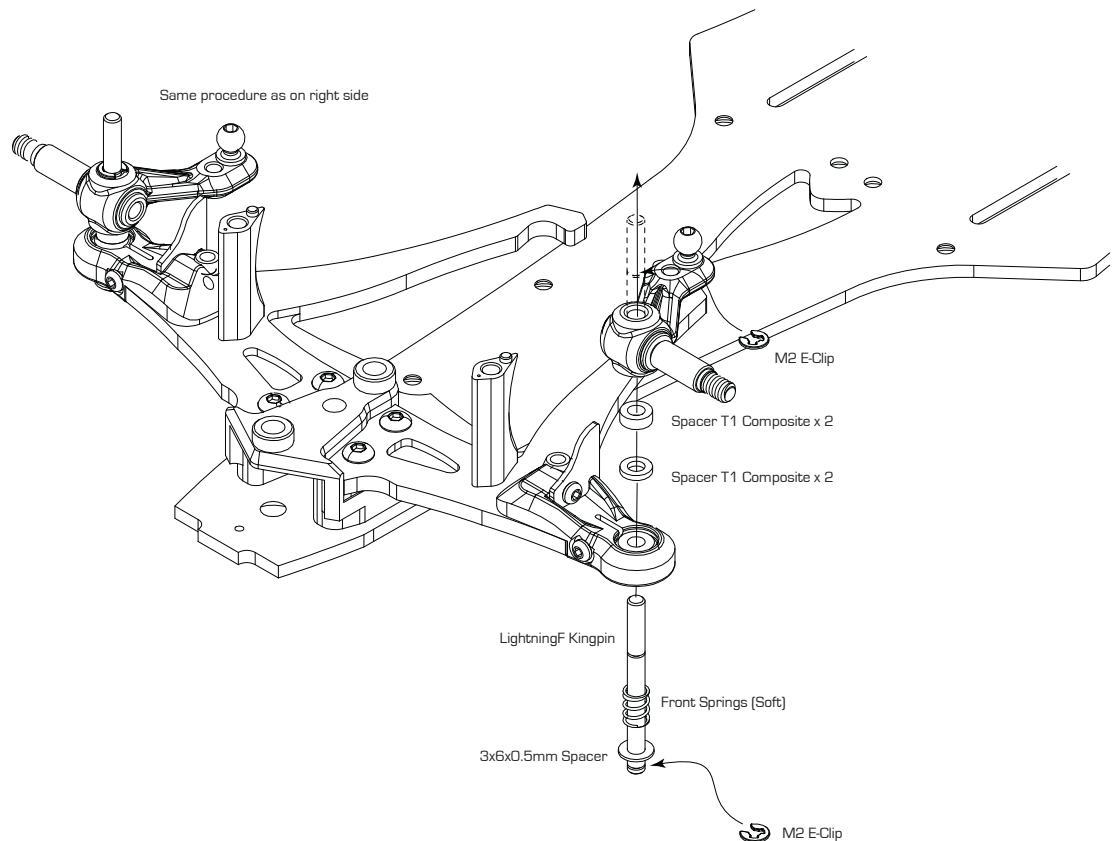
3x6x0.5mm Spacer B-02-VBC-5093 x 2



Front Springs (Soft) C-02-VBC-5041 x 2



M2 E-Clip B-03-VBC-0129 x 4



10

11**Installing Servo Mount**

LightningF Upper Deck Support Mount A-01-VBC-5106 x 2



M3x6 Flathead C-02-SC-F0306 x 2



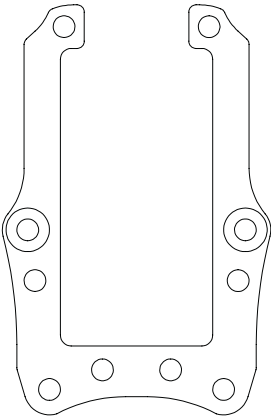
M3 Steel Spacer B-02-VBC-5093 x 2



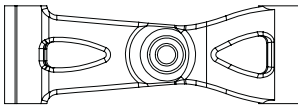
M3 Locknut C-02-SC-NN03 x 2



M3x10 Roundhead C-02-SC-R0310 x 2



Graphite Servo Plate A-01-VBC-5117 x 1



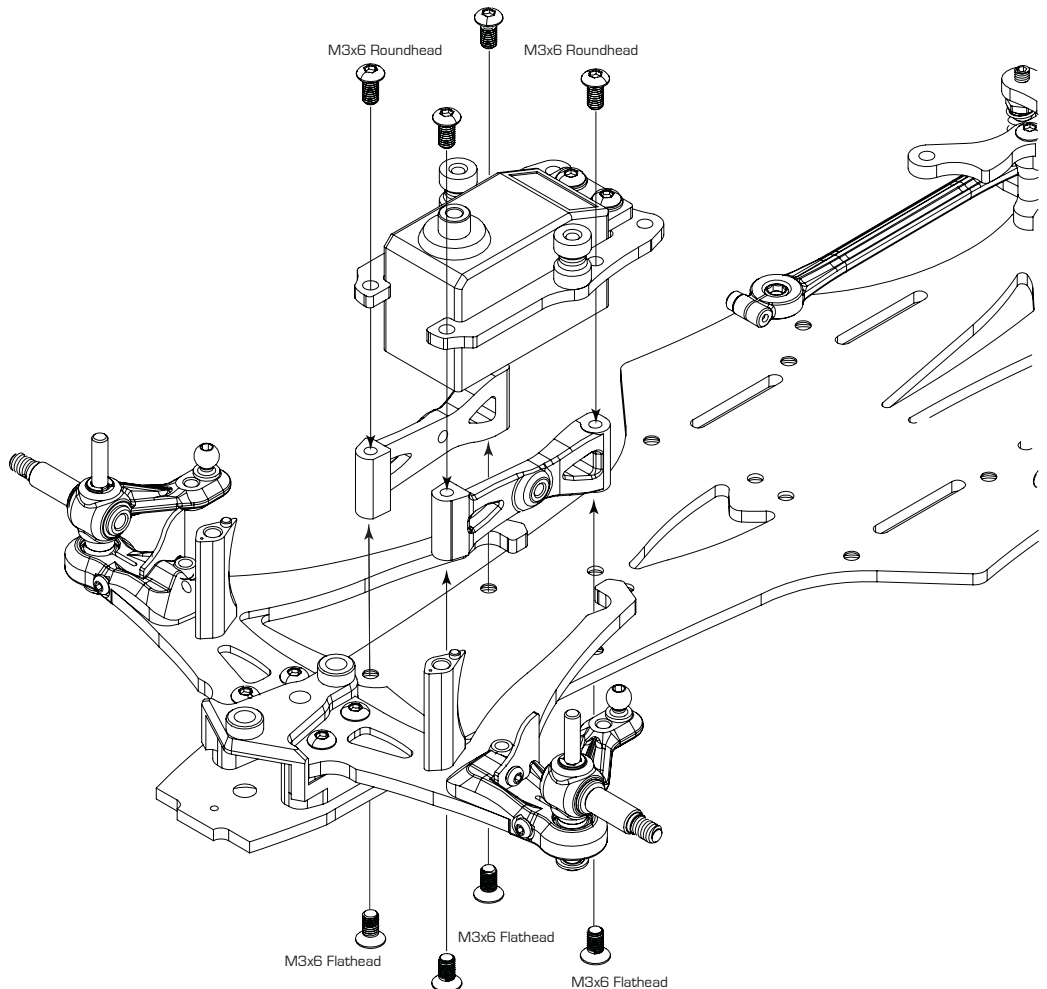
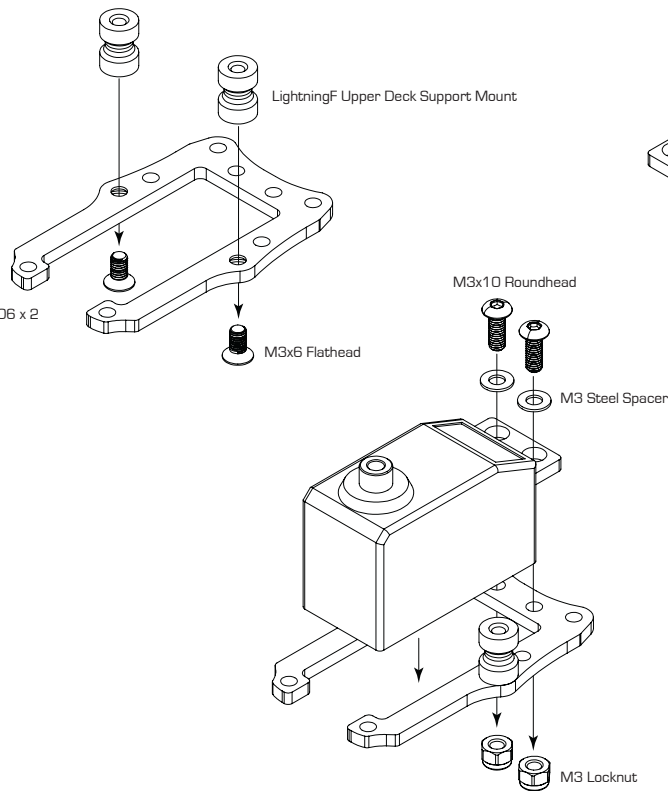
Servo Mount B-02-VBC-5099 x 2

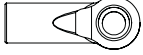


M3x6 Flathead C-02-SC-F0306 x 4

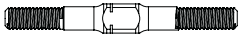


M3x6 Roundhead C-02-SC-R0306 x 4

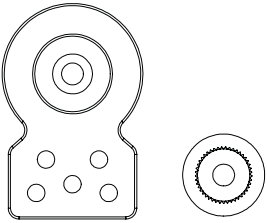


12**Installing Steering Linkage**

Turnbuckle Cup (Long) A-03-VBC-5016 x 4



32mm Turnbuckle B-02-VBC-5102 x 2



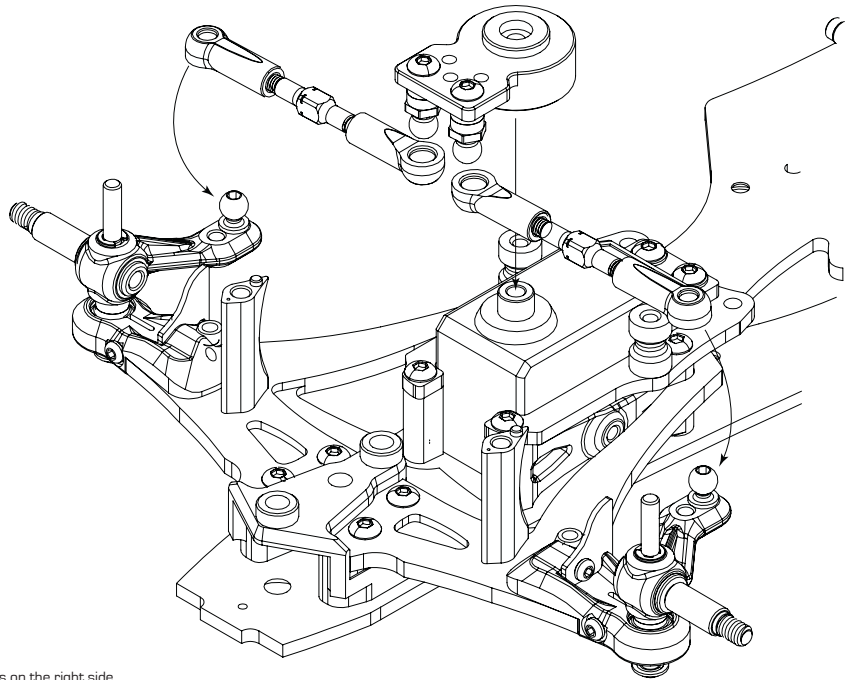
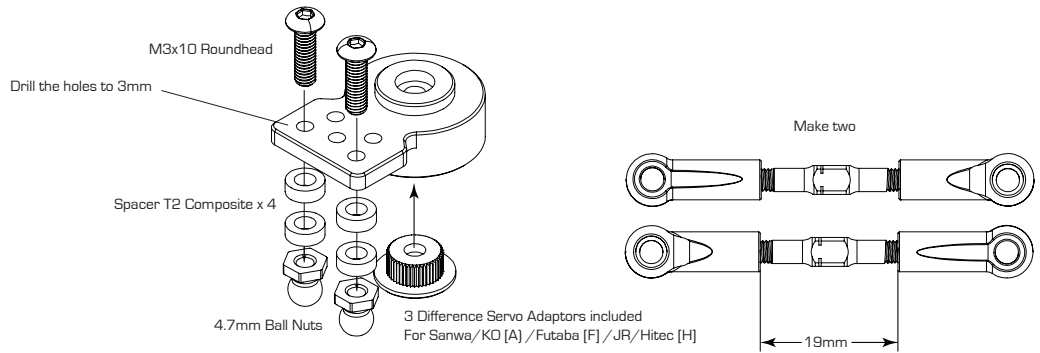
Servo Saver Set for Lightning series B-03-VBC-5017 x 1



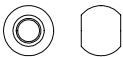
M3x10 Roundhead C-02-SC-R0310 x 2



4.7mm Ball Nuts B-02-VBC-5020 x 2

**13****Front Top Arm Assembly**

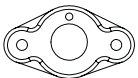
Camber Adjuster, Type B B-02-VBC-5105 x 2



Front Upper Arm Pivot Ball C-02-VBC-5114 x 2

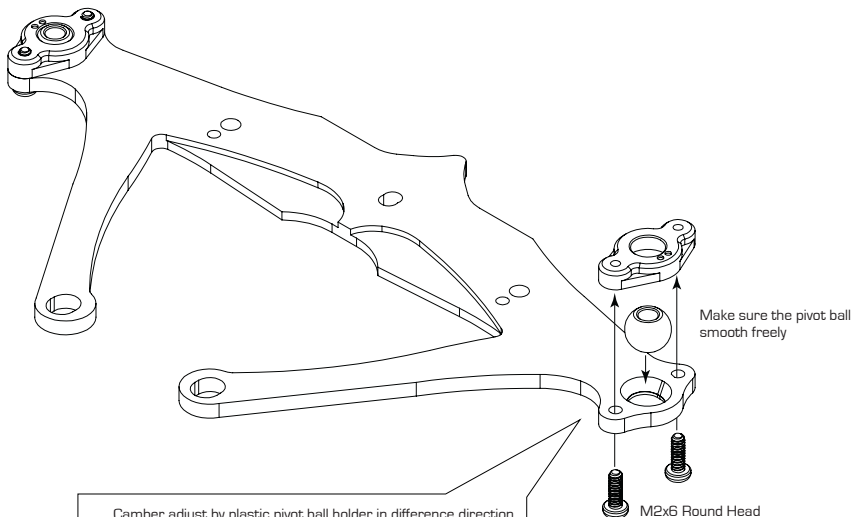


M2x6 Round Head C-02-SC-R-0206 x 4

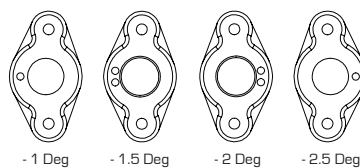


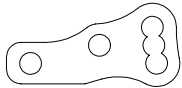
Camber Adjuster, Type B B-02-VBC-5104 x 2

Same procedure as on the right side

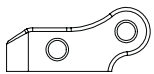


Camber adjust by plastic pivot ball holder in difference direction



14**Battery Mount and Upper Deck Assembly**

LightningF Shock Mount Plate A-01-VBC-5097 x 1



Lightning Alum Shock Mount Brace A-01-VBC-5003 x 1



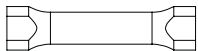
M3x6 Roundhead C-02-SC-R0306 x 4



M3x6 Flathead C-02-SC-F0306 x 4



Front Upper Deck Caster Mount C-02-VBC-5109 x 2



LightningF Upper Deck Mount B-02-VBC-5096 x 2



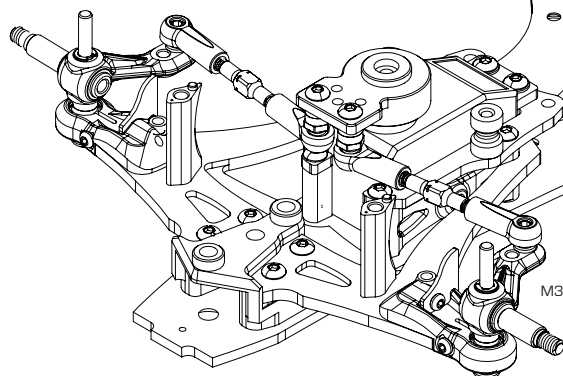
LightningF Graphite Battery Mount A-01-VBC-5118 x 1

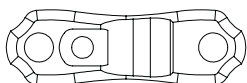


M3 Locknut C-02-SC-NN03 x 2



M3x10 Flathead C-02-SC-F0310 x 2



15**Front Upper Arm Assembly**

Aluminum Center Mount C-02-VBC-5107 x 1



Front Caster Mount Spacer C-02-VBC-5110 x 2



Top Arm Washer C-02-VBC-5115 x 1



Center Front Upper Mount C-02-VBC-5108 x 1



M4x22 Flathead Screw C-02-SC-F0422 x 2



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



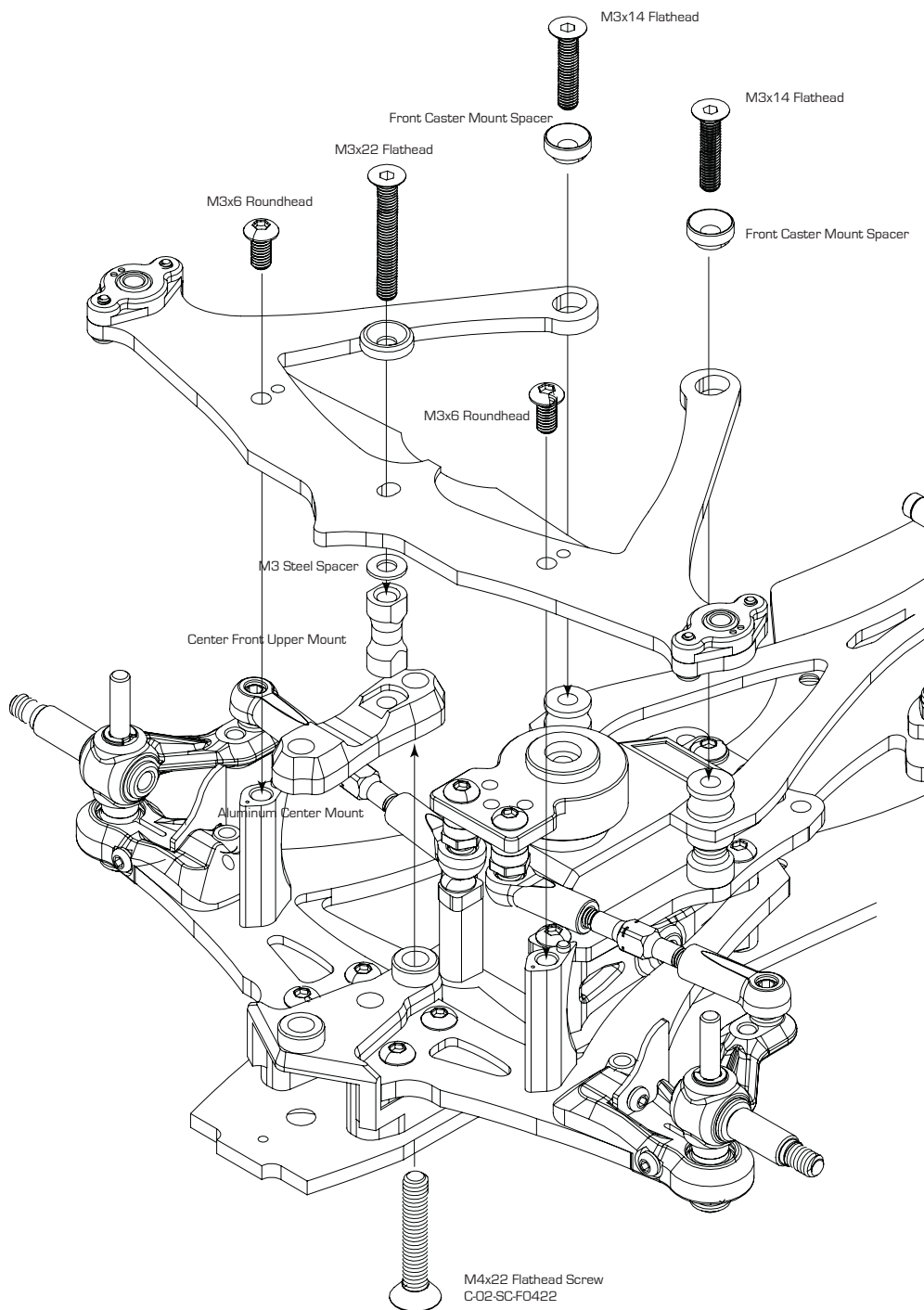
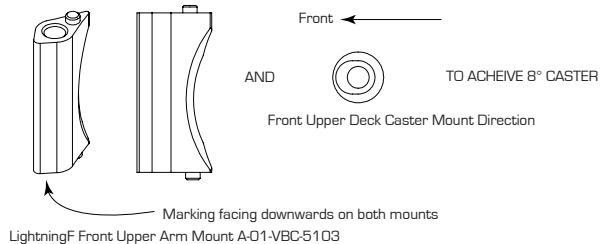
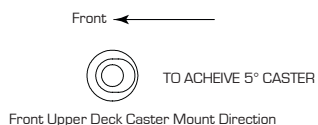
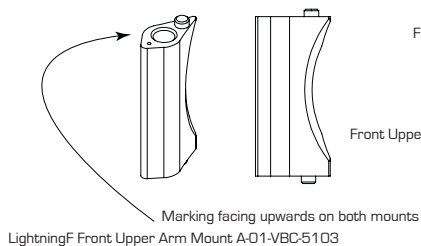
M3x14 Flathead Screw C-02-SC-F0314 x 2

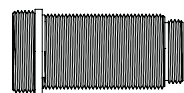


M3 Steel Spacer B-02-VBC-5093 x 1

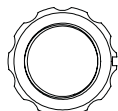


M3x6 Roundhead C-02-SC-R0306 x 2

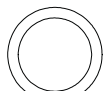
**Adjustable Front Caster Settings**

16**TBX Shock Assembly**

TBX Shock Body B-02-VBC-5023 x 1



TBX Spring Adjuster B-02-VBC-5024 x 1



M1.5x10 O-ring C-02-VBC-5035 x 1



TBX Shock Bottom Cap B-02-VBC-5025 x 1



Shock Bottom O-ring Guard A-02-VBC-5030 x 1



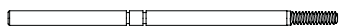
M2x6mm O-ring C-02-VBC-5037 x 2



TBX Piston [2 Holes] A-02-VBC-5027 x 1



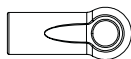
TBX Piston [3 Holes] A-02-VBC-5028 x 1



Lightning12 TBX Shock Shaft C-02-VBC-5026 x 1



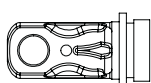
M1.5 E-Clip C-02-VBC-5038 x 2



TBX Shock Ball End B-02-VBC-5033



TBX Shock O-ring Guard A-02-VBC-5029

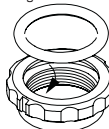


TBX Shock Thru Cap A-02-VBC-5031 x 1



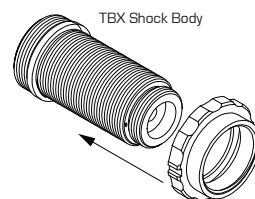
M1.0x7.5 O-ring C-02-VBC-5036 x 2

M1.5x10 O-ring

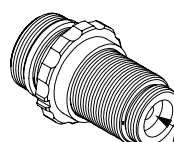


TBX Spring Adjuster

Insert Sealer O-Ring inside the Spring Adjuster Groove



TBX Shock Body



Note The Direction Of O-ring Guard On Top



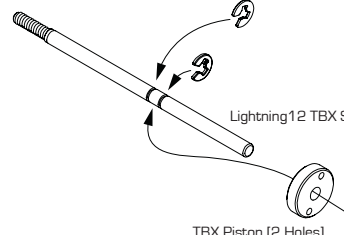
Note The Direction Of O-ring Guard On Top

M2x6mm O-ring

TBX Shock Bottom Cap

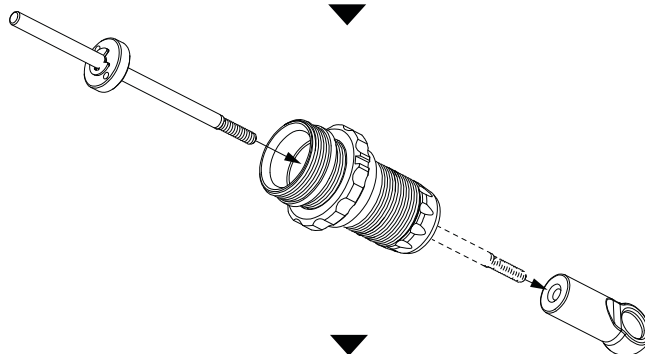
Shock Bottom O-ring Guard

M1.5 E-Clip



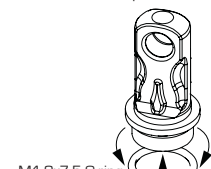
Lightning12 TBX Shock Shaft

TBX Piston [2 Holes]

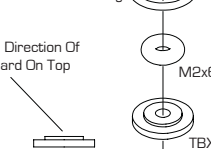


TBX Shock Ball End

TBX Shock Thru Cap



M1.0x7.5 O-ring



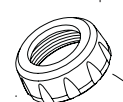
M2x6mm O-ring

TBX Shock O-ring Guard

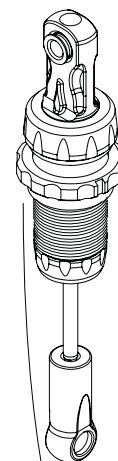
Note The Direction Of O-ring Guard On Top

Fill supplied shock oil and remove air by moving the piston up and down until air bubbles disappear

TBX Shock Cap B-02-VBC-5022 x 1



5mm Pivot Ball A-03-VBC-1027 x 1



Lightning12 TBX Spring [Gold/Medium] C-02-VBC-5034

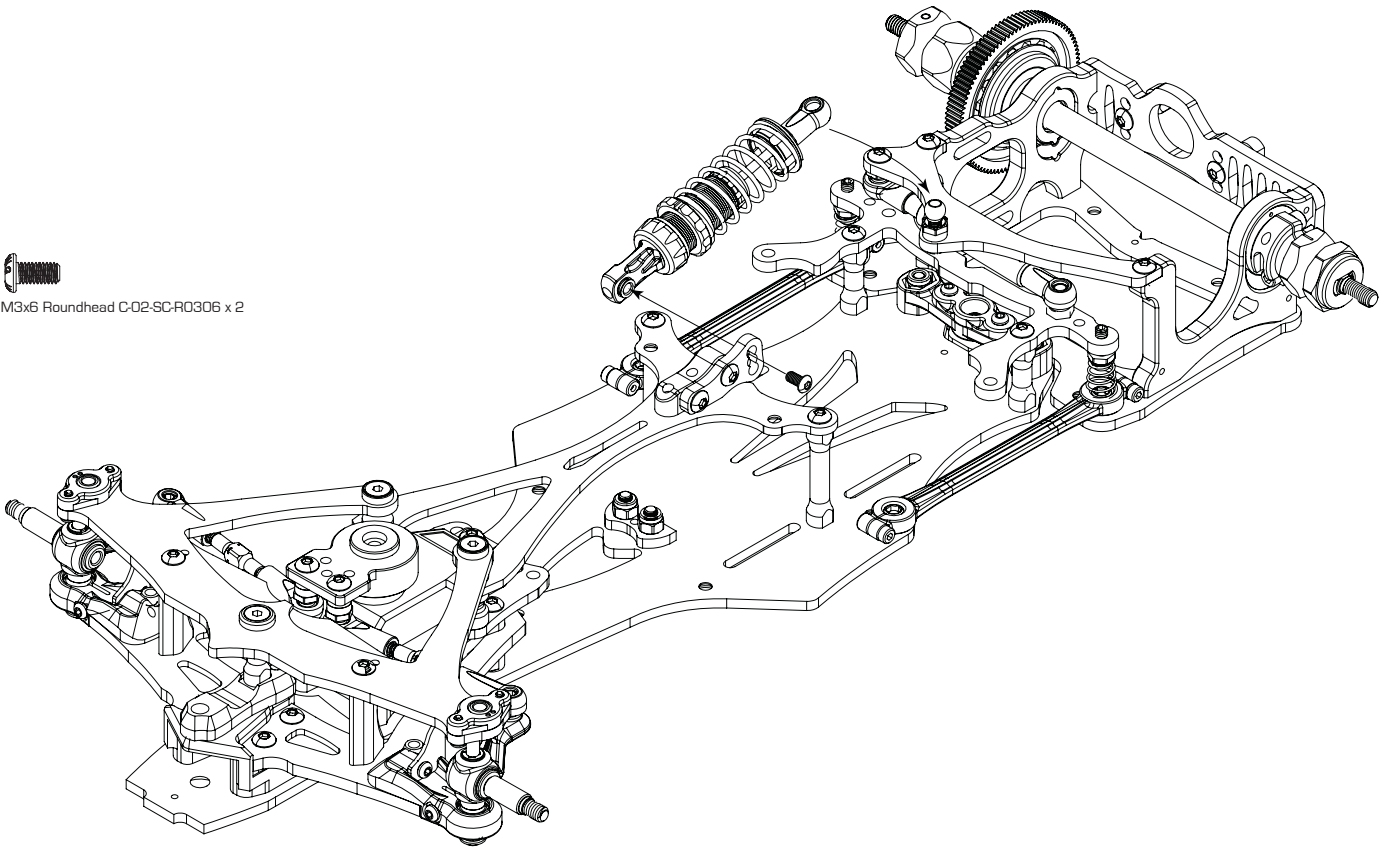
TBX Spring Retainer A-02-VBC-5032 x 1

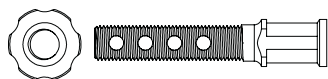
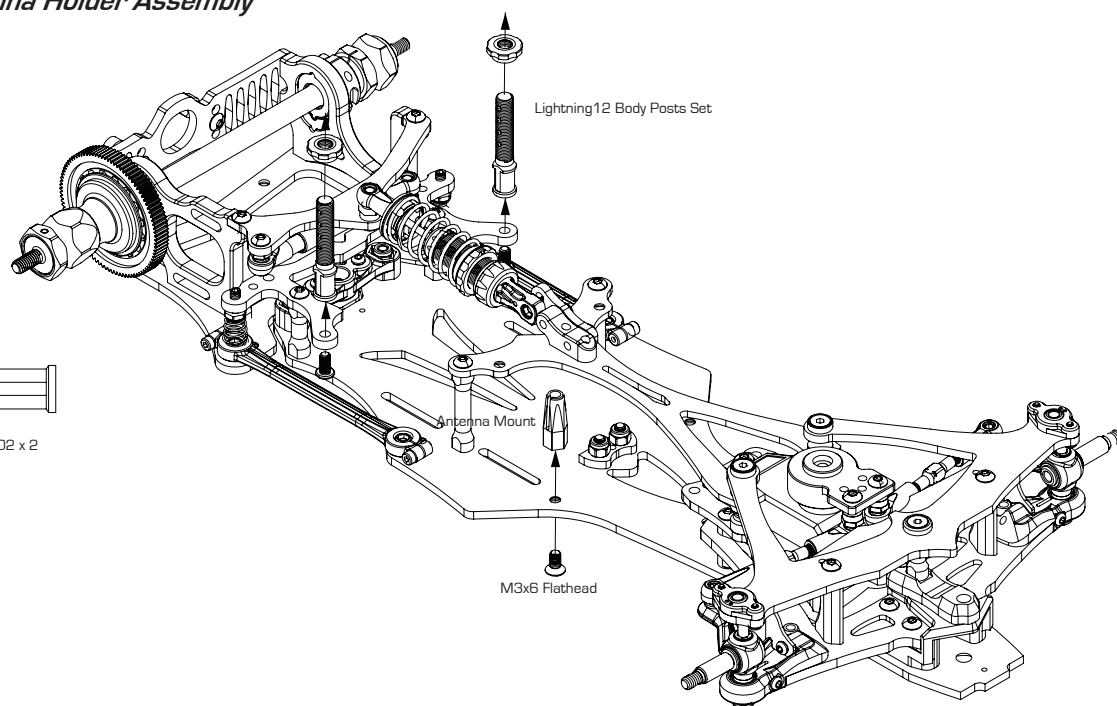


OPTIONAL LIGHTNING12 TBX SPRINGS :
C-02-VBC-5039 [Med. Soft/Silver]
C-02-VBC-5040 [Med. Hard/Black]

17*Installing TBX Shock to Chassis*

M3x6 Roundhead C-02-SC-R0306 x 2



18**Body Posts and Antenna Holder Assembly**

Lightning 12 Body Posts Set D-05-VBC-0102 x 2



M3x6 Roundhead C-02-SC-R0306 x 2



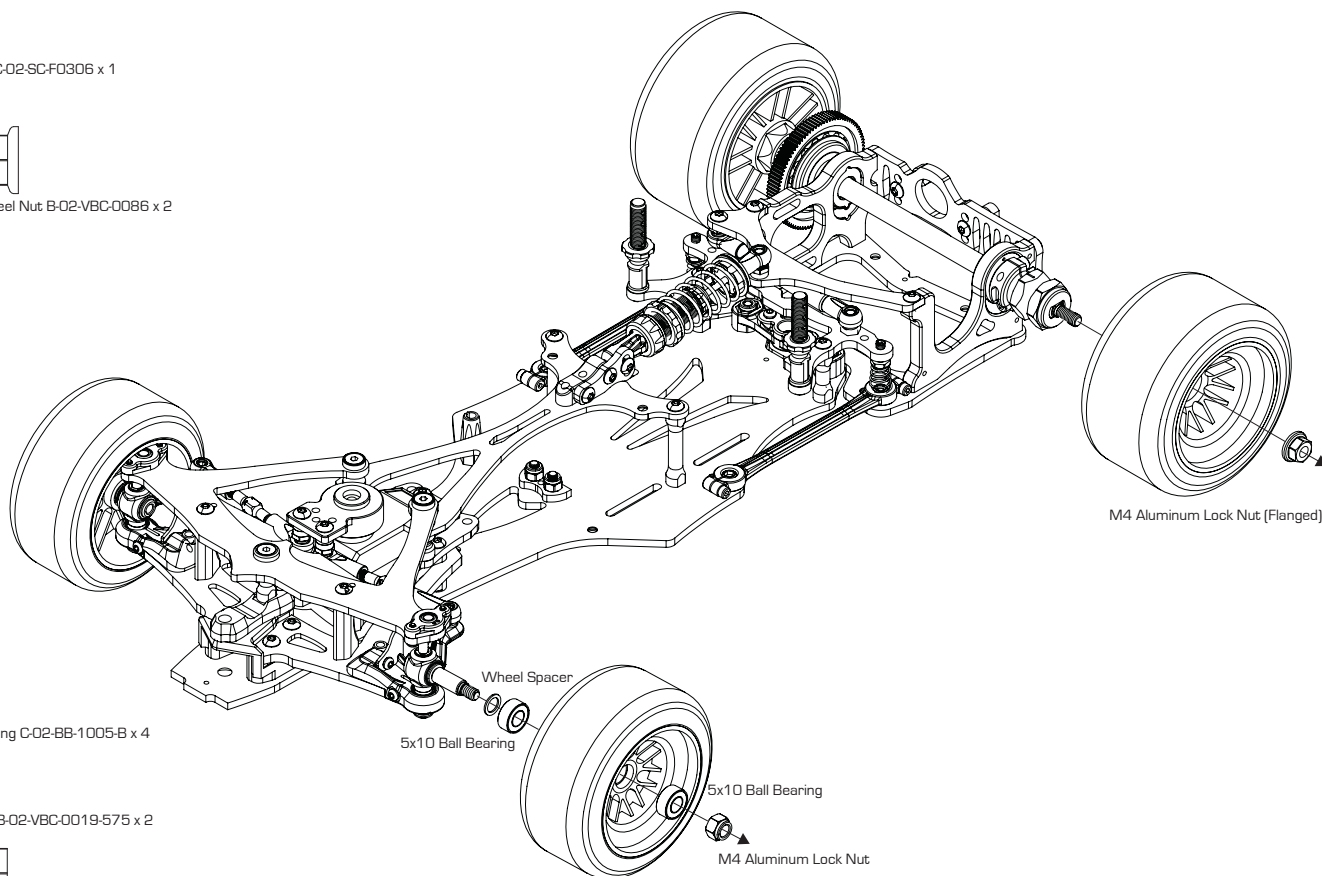
Antenna Mount A-03-VBC-1043 x 1



M3x6 Flathead C-02-SC-F0306 x 1



M4 Flanged Wheel Nut B-02-VBC-0086 x 2



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

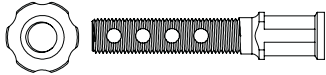


Wheel Spacer B-02-VBC-0019-575 x 2



M4 Aluminum Lock Nut A-03-VBC-1024 x 2

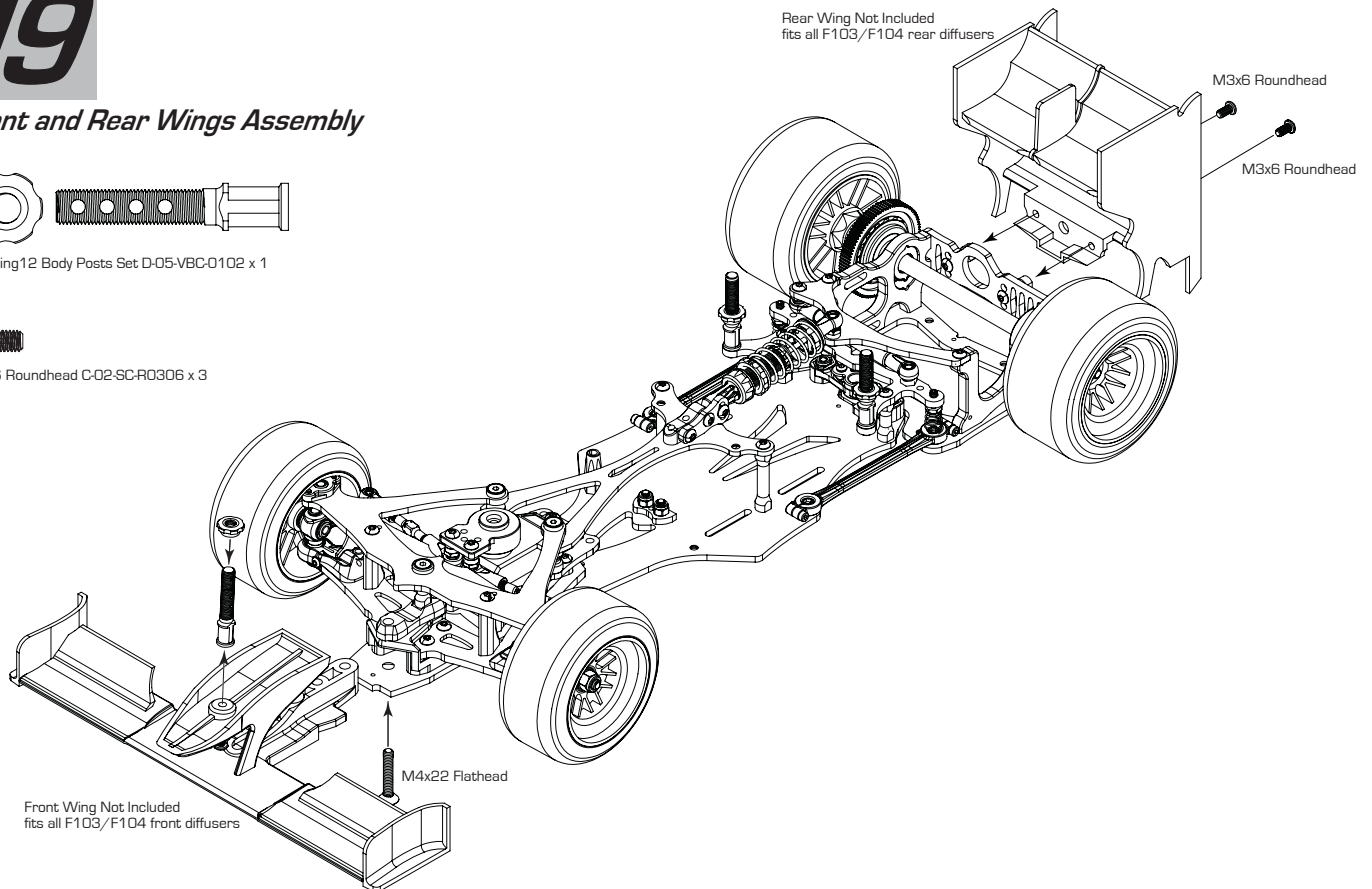
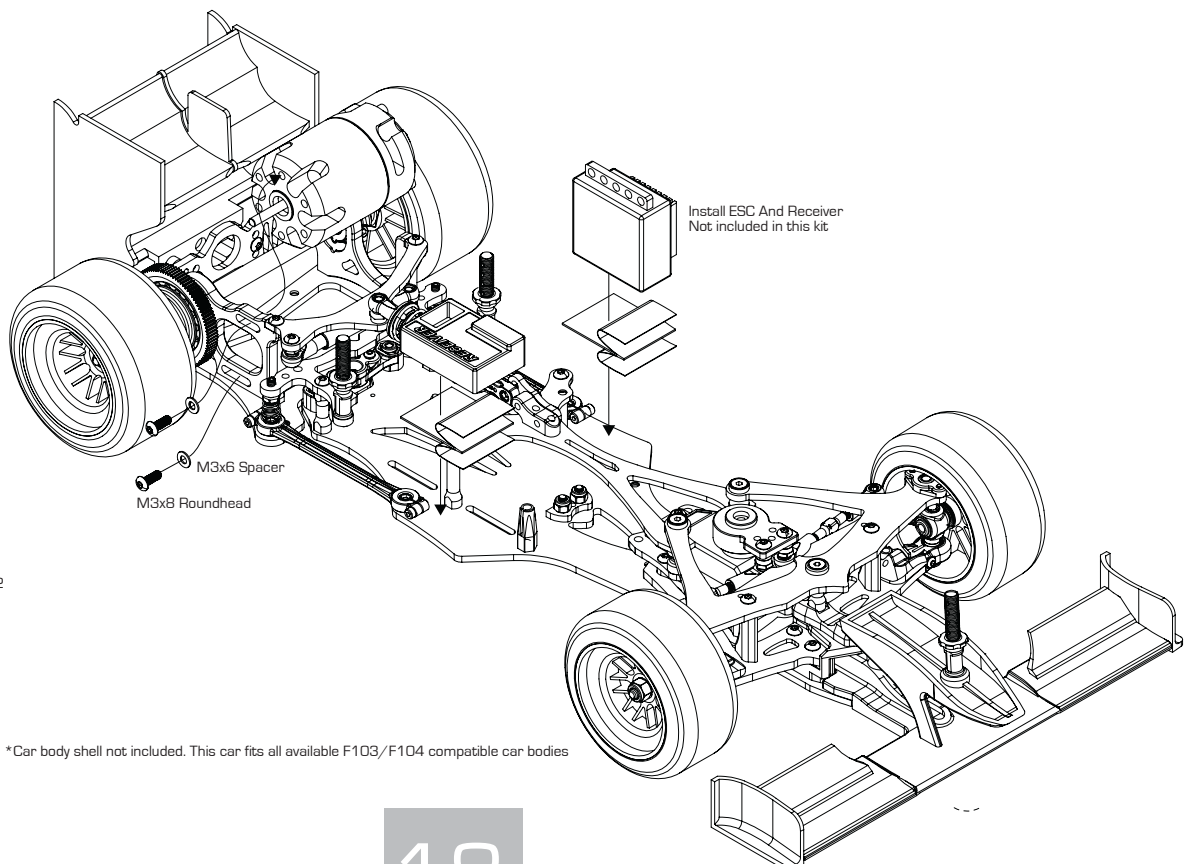
*Tires, wheels and tire inserts are not included in this kit

19**Front and Rear Wings Assembly**

Lightning12 Body Posts Set D-05-VBC-0102 x 1



M3x6 Roundhead C-02-SC-R0306 x 3

**Install Electronics**

M3x8 Roundhead C-02-SC-R0308 x 2



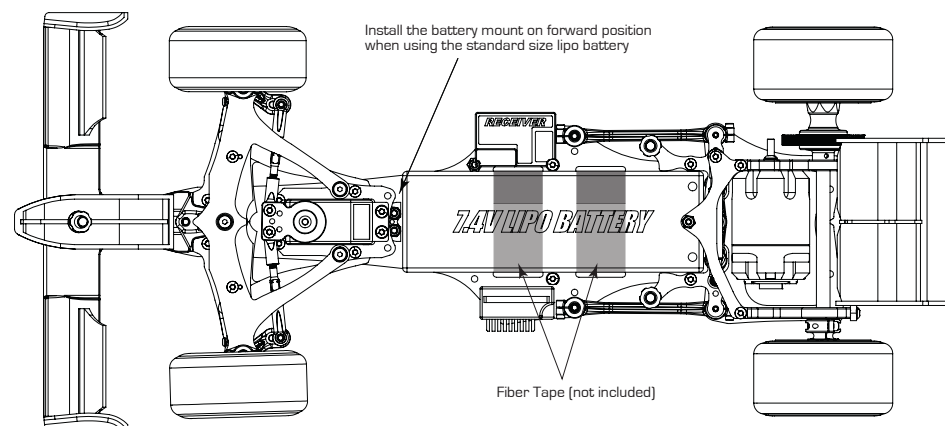
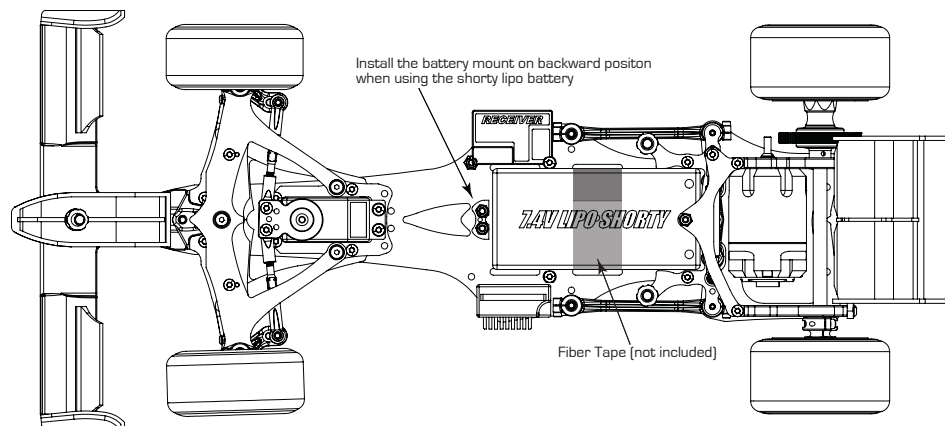
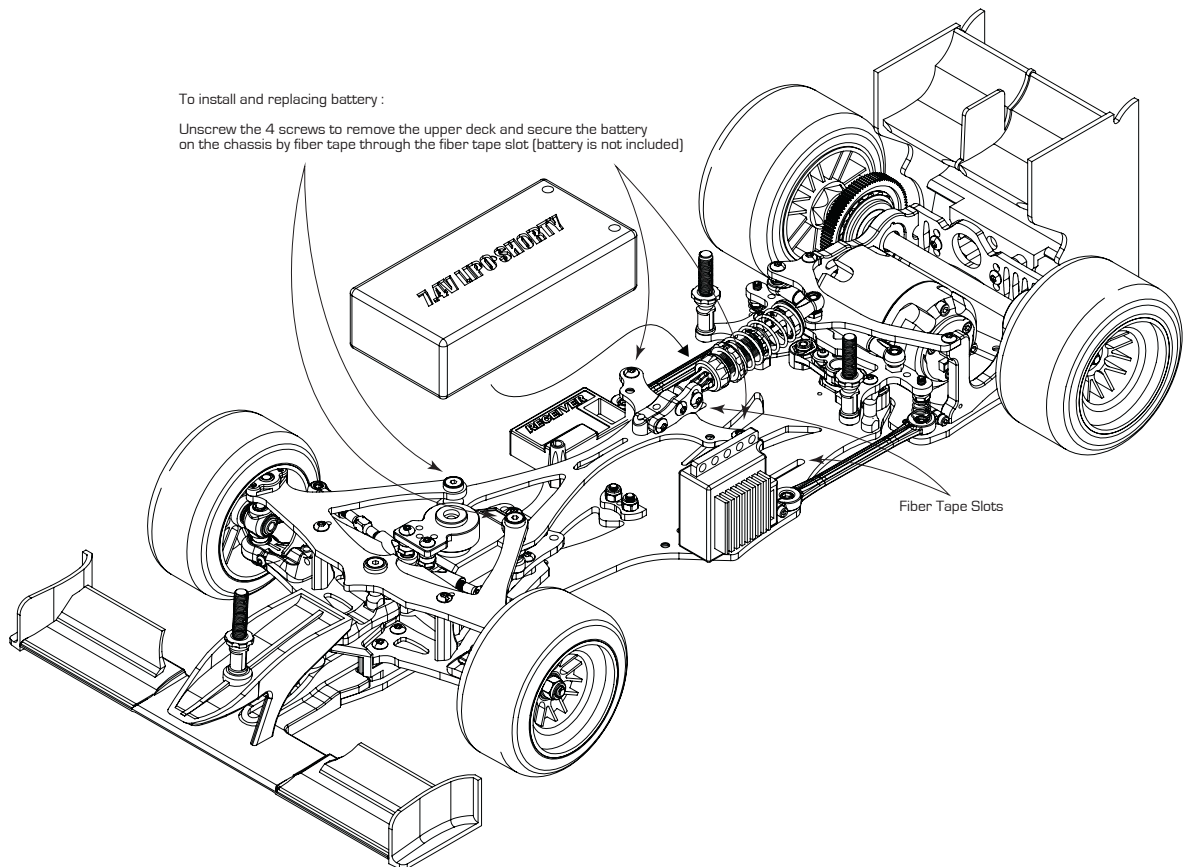
M3x6 Spacer B-02-VBC-5093 x 2

*Car body shell not included. This car fits all available F103/F104 compatible car bodies

19**Install Battery**

To install and replacing battery :

Unscrew the 4 screws to remove the upper deck and secure the battery on the chassis by fiber tape through the fiber tape slot [battery is not included]





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LIGHTNING F

1/10 SCALE ELECTRIC COMPETITION FORMULA CAR KIT

Instruction Book P-0006.0 VBC Racing LightningF Car Kit D-05-VBC-CK04