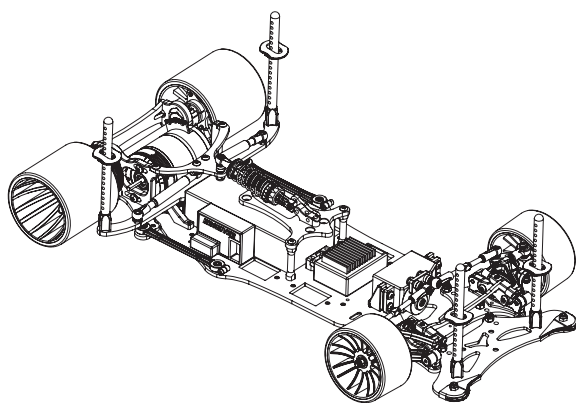


COMPETITION GRADE HIGH PERFORMANCE RADIO CONTROL RACING CAR CHASSIS KIT

LIGHTNING LML

1/10 SCALE ELECTRIC COMPETITION 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 FRP 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.vbcrcracing.com



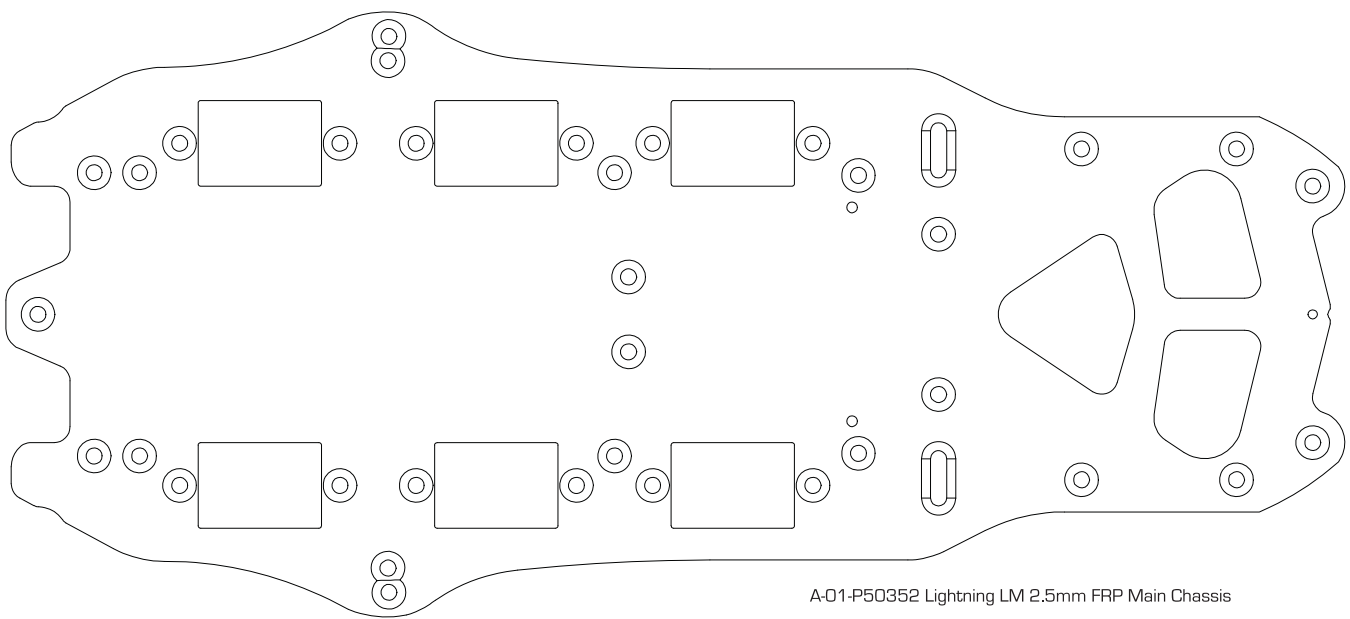
1

Edges Protection Procedure

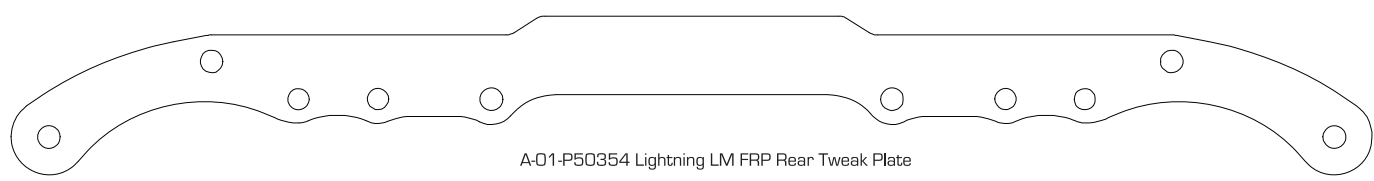


* Not included in this kit

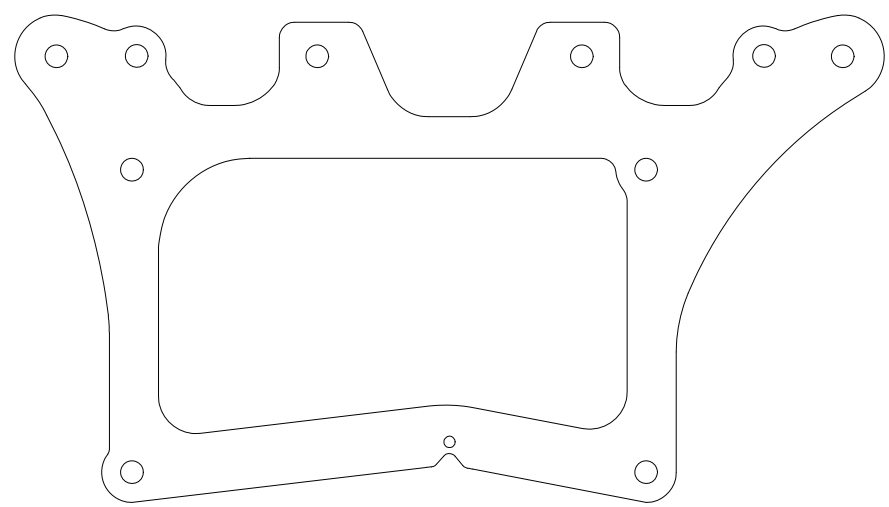
Sand the chassis edges with #600 sand paper(not included) and apply CA glue(not included) to the edges of the chassis.



A-01-P50352 Lightning LM 2.5mm FRP Main Chassis



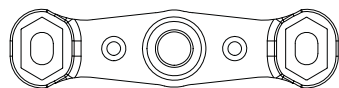
A-01-P50354 Lightning LM FRP Rear Tweak Plate



A-01-P50355 Lightning LM FRP Lower Pod Plate

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

2

Pivot Brace Assembly Part 1

Pivot Brace D-05-VBC-0101 x 1



Pivot Brace Cover D-05-VBC-0101 x 1



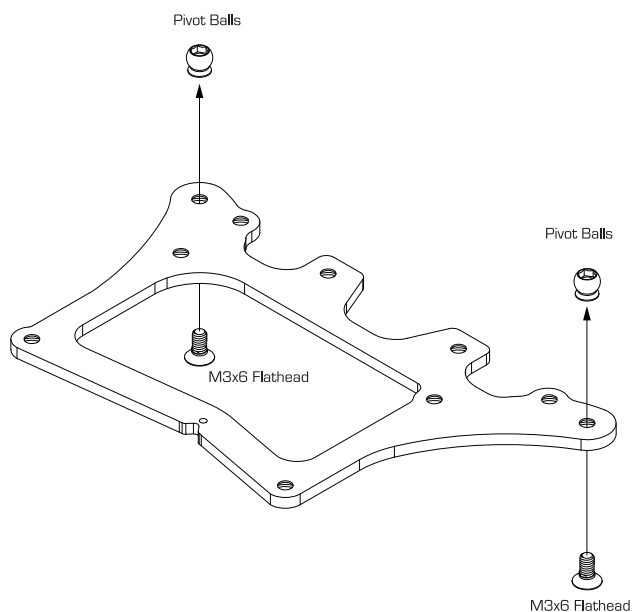
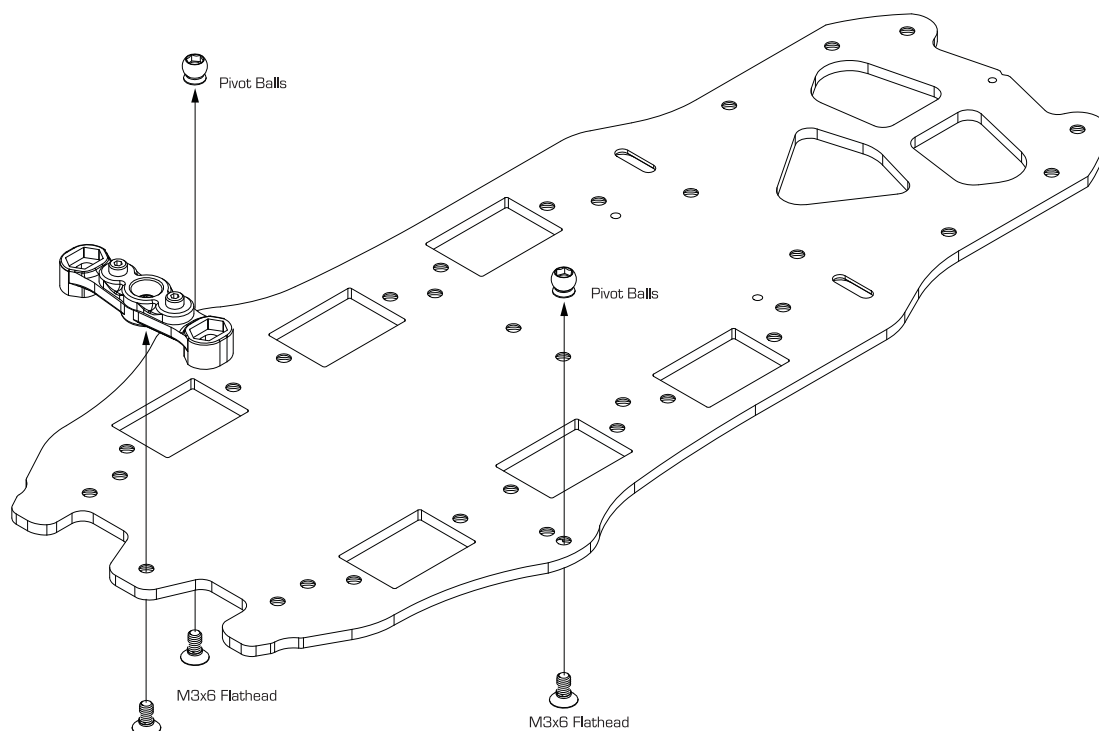
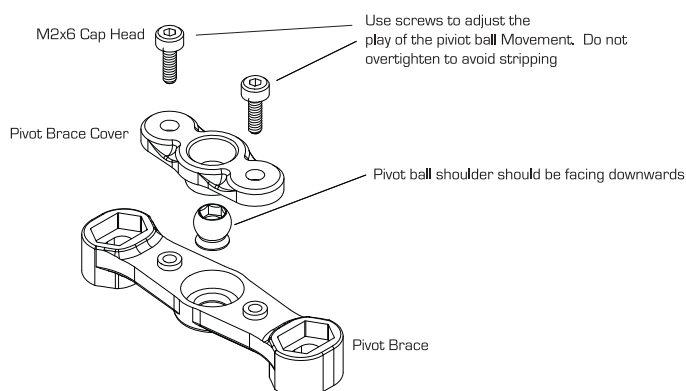
M2x6 Cap Head C-02-SC-R2.0x6 x 2



Pivot Balls A-03-VBC-1027 x 5



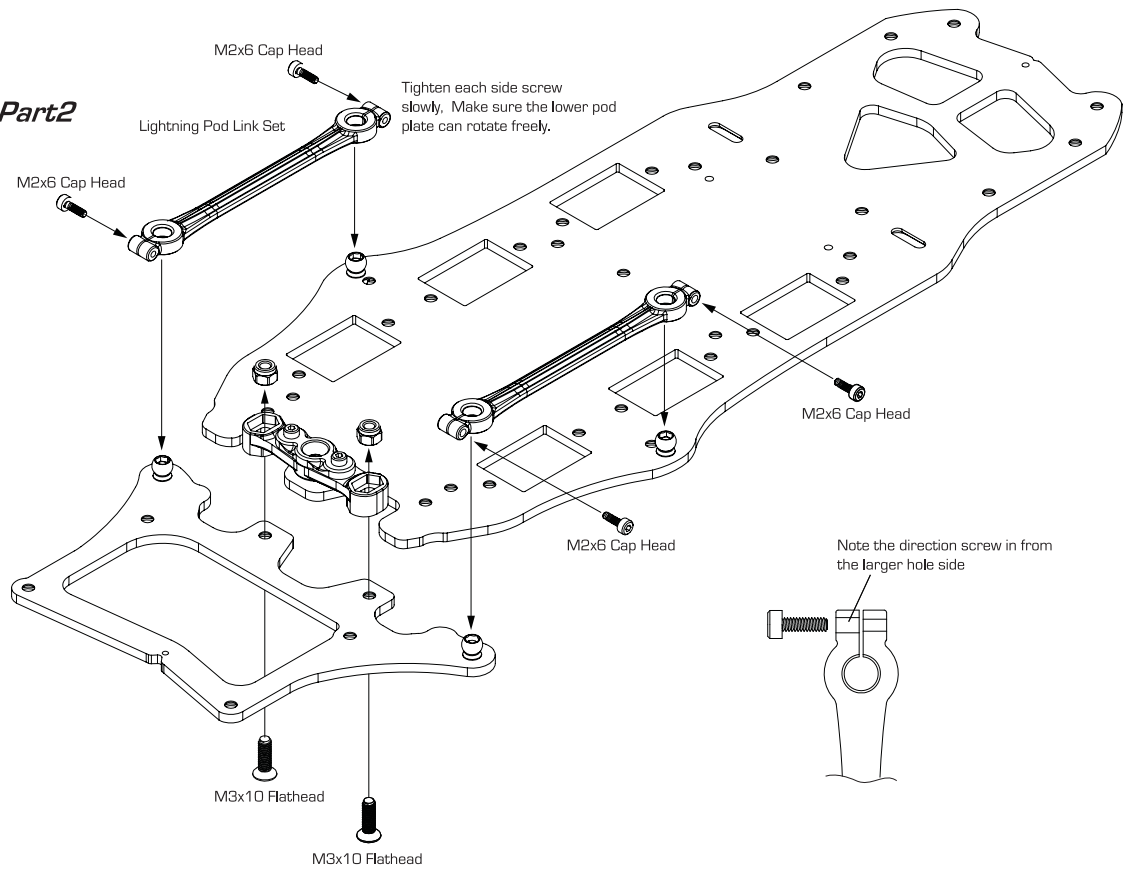
M3x6 Flathead C-02-SC-F0306 x 5



2

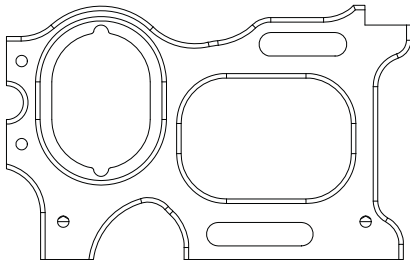
Pivot Brace Assembly Part2

-  M2x6 Cap Head C-02-SC-R2.0x6 x 4
-  M3 Locknut C-02-SC-NN03 x 2
-  M3x10 Flathead C-02-SC-F0310 x 2

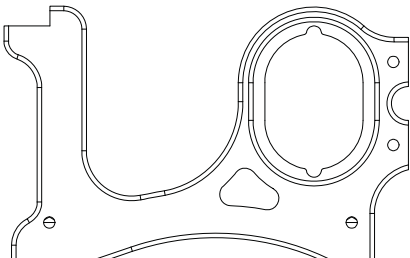


3

Rear Bulkhead Assembly Part1

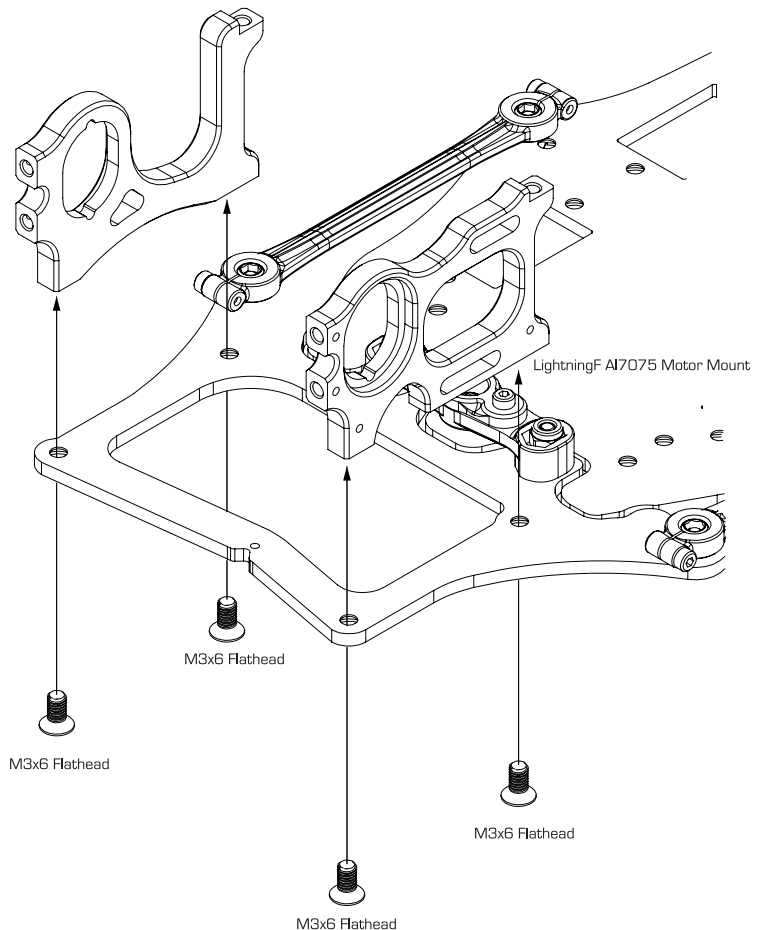


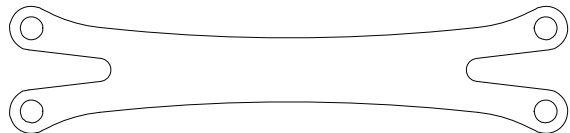
LightningF AI7075 Motor Mount B-02-VBC-5128 x 1



LightningF AI7075 Left Bulkhead B-02-VBC-5129 x 1

-  M3x6 Flathead C-02-SC-F0306 x 4



3**Rear Bulkhead Assembly Part 2**

Lightning 10 FRP Rear Pod Strut
A-01-P50353 x 1



M3x6 Roundhead C-02-SC-R0306 x 4

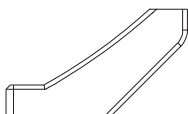
M3x6 Roundhead

Lightning 10 Graphite Rear Pod Strut
A-01-P50206 x 1

M3x6 Roundhead

4**Chassis Brace Assembly**

M3x6 Flathead C-02-SC-F0306 x 2



Lightning Rear Tweak Plate Standoff B-02-G50228 x 2

Lightning Rear Tweak Plate Standoff

M3x6 Flathead

M3x6 Flathead

4



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



M3x6 Roundhead C-02-SC-R0306 x 4



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



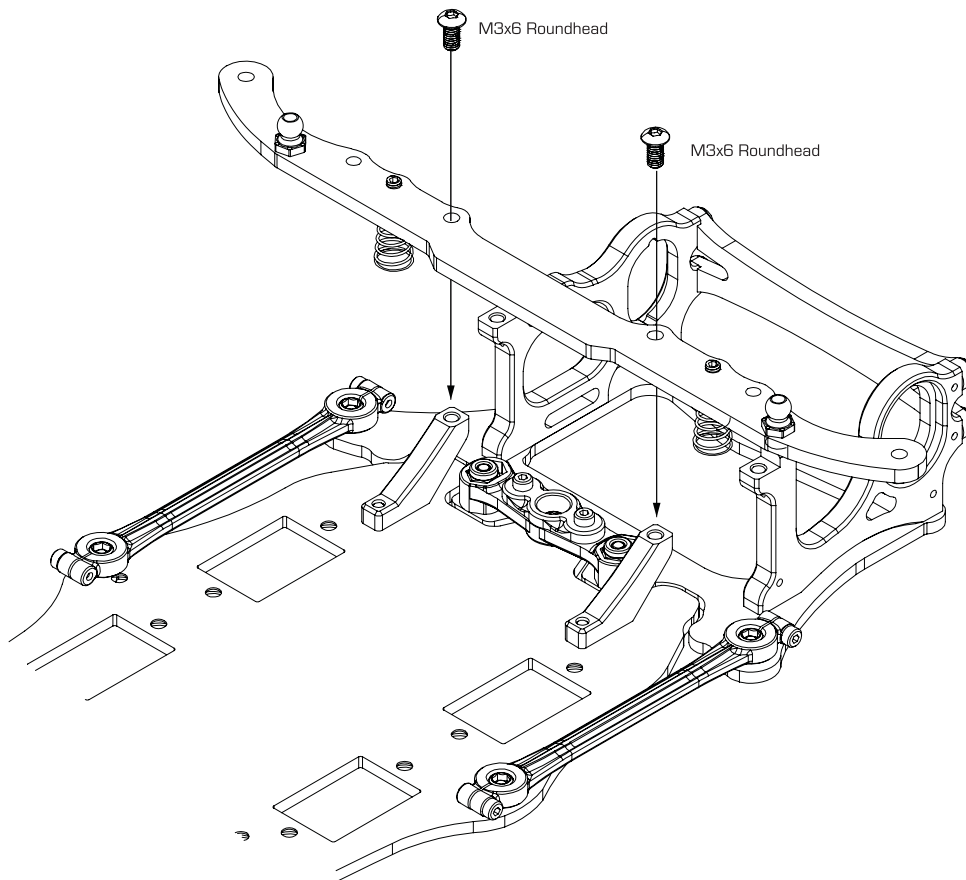
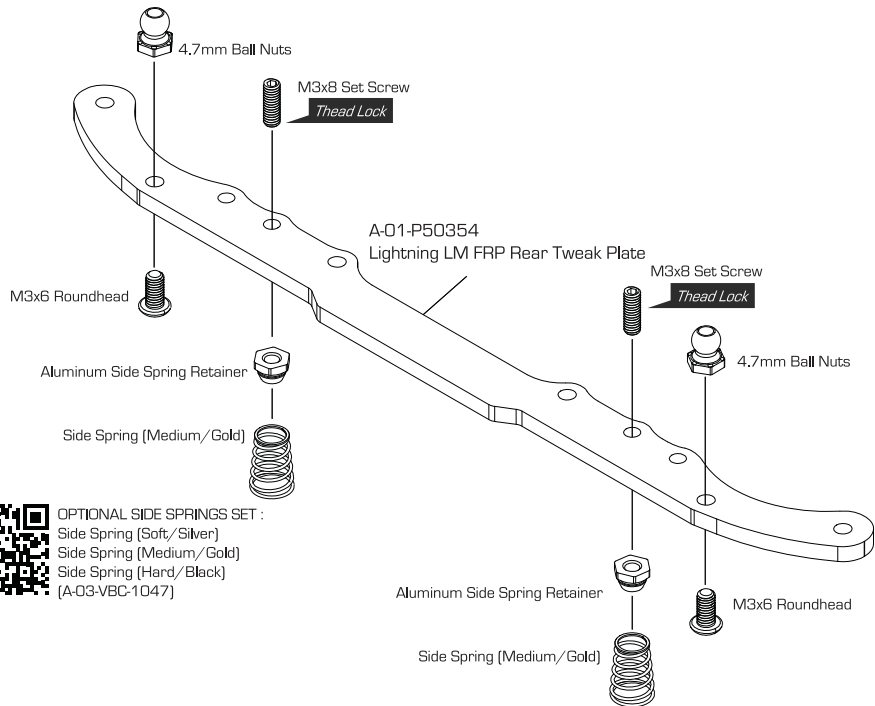
Side Spring (Medium/Gold) A-03-VBC-1047 x 2



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



OPTIONAL SIDE SPRINGS SET :
Side Spring (Soft/Silver)
Side Spring (Medium/Gold)
Side Spring (Hard/Black)
[A-03-VBC-1047]



5



Ball Connector 4.7x17mm A-02-VBC-5092 x 1



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



T2 7075 Spacer B-02-VBC-0019-20 x 2



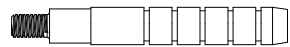
T1 7075 Spacer B-02-VBC-0019-10 x 1



M3x6 Roundhead C-02-SC-R0306 x 4



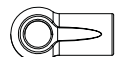
M3 Locknut C-02-SC-NN03 x 1



Lightning Damper Tube Shaft D-05-VBC-0103 x 2



Lightning Damper Tube D-05-VBC-0103 x 2



Turnbuckle Cup (Short) A-03-VBC-5021 x 4

Ball Connector 4.7x17mm

2mm Spacer

2mm Spacer

1mm Spacer

M3x6 Roundhead

Lightning 10 FRP Rear Shock Mount Plate
A-01-P50360

4.7mm Ball Nuts

M3 Locknut

Turnbuckle Cup (Short)

Friction Grease

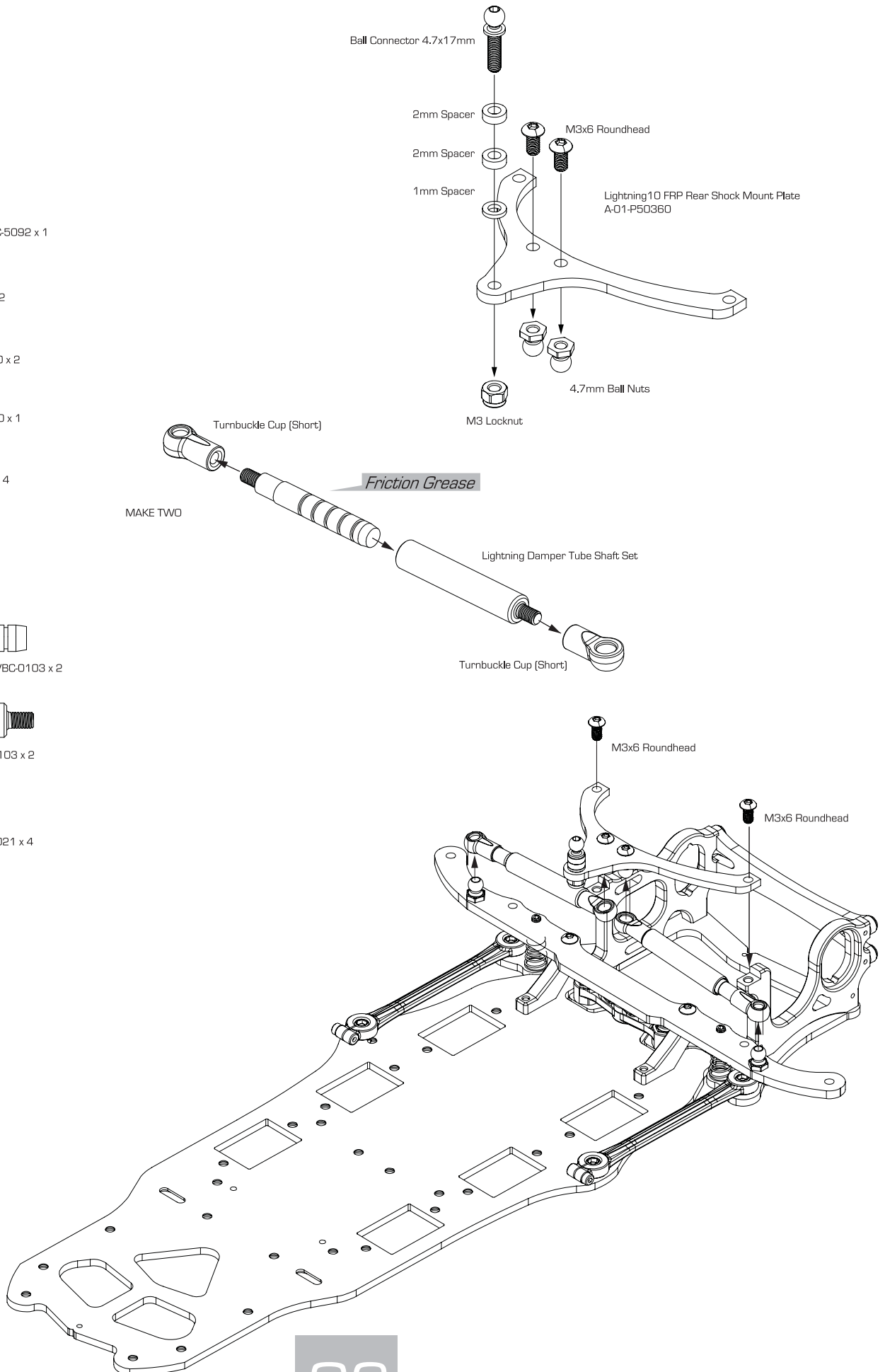
MAKE TWO

Lightning Damper Tube Shaft Set

Turnbuckle Cup (Short)

M3x6 Roundhead

M3x6 Roundhead



6



OPTIONAL LIGHTNING FRONT AXLE :
Lightning Inline Front Axle C-02-P50211

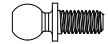
Make Two (Left And Right Side)



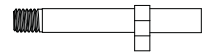
M2.5 x 6 x 0.5 Spacer C02P50259 x 2



M2.5x4 Roundhead C-02-SC-R2504 x 4



Ball Connector 4.7x12mm A-02-VBC-5015 x 2



Lightning12 Front Axle B-02-VBC-5060 x 2



Pivot Ball B-02-VBC-5068 x 4



M3x15mm Turnbuckle, Black A-02-VBC-5053 x 2



Lightning12 Front Upper Arm Eyelet
A-02-VBC-5092 x 2



M3x10 Roundhead C-02-SC-R0310 x 4



M3x12 Flathead C-02-SC-F0312 x 4



Lightning12 Front Upper Arm Spacer, 1.5mm
A-01-VBC-5048 x 2



M3.3x0.4 Kingpin Shim C-02-VBC-5069 x 22



Lightning12 Kingpin C-02-VBC-5044 x 2



Front Spring [Medium/Gold] C-02-VBC-5042 x 2



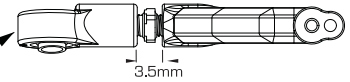
M2x8 Caphead C-02-SC-R2.0x8 x 2



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

Ball Connector 4.7x12mm

Please note the direction of
the Upper Arm Eyelet as they
are offset.



3.5mm

Pivot Ball

Lightning12 Front Upper Arm Eyelet

M3x15mm Turnbuckle, Black

Lightning12 Front Upper Arm

M2.5 x 6 x 0.5 Spacer

M2.5x4 Roundhead

Pivot Ball

M3x12 Flathead

Lightning12 Front Lower Arm
A-02-VBC-5067

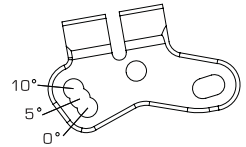
Lightning12 Front Upper
Arm Spacer, 1.5mm

Lightning12 Aluminum
Front Bulkhead, Right

Lightning12 Aluminum Upper Arm Mount

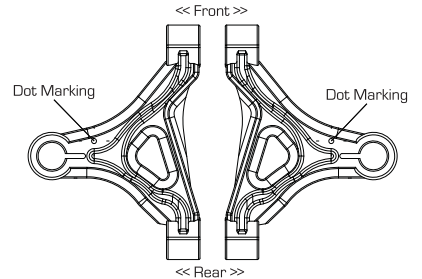
M3x10 Roundhead

Upper Arm Mount Active Caster Setup



Note : 10° Is The Standard Setup

Note : Lower arm in the same direction,
dot marking should be facing up



OPTIONAL FRONT UPPER ARM SPACER SET :
0.5mm/ 1.0mm Adjust Spacer
(D-05-VBC-0109)



OPTIONAL FRONT SPRINGS :
Front Spring (Soft/Silver) C-02-VBC-5041
Front Spring (Hard/Black) C-02-VBC-5043

Front Spring
(Medium/Gold)

M3.3x0.4 Kingpin Shim

Lightning12 Kingpin

M2.5x4 Roundhead

M3.3x0.4 Kingpin Shim x 3

M3.3x0.4 Kingpin Shim x 7

M2x8 Caphead
Note : Tighten the screw slowly to
adjust the pivot ball movement

M3x3 Set Screw

6

Front Suspension Assembly



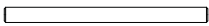
Lightning Height Adjust Spacer, 1.5mm
A-01-VBC-5045 x 2



M3x12 Flat Head Screw C-02-SC-F0312 x 4



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



2mm Upper Hinge Pin C-02-VBC-5054 x 2



Caster Spacer, 0.8mm D-05-VBC-0110 x 2



Caster Spacer, 1.2mm D-05-VBC-0110 x 2



M3x2mm Set Screw C-02-SC-S0302 x 2



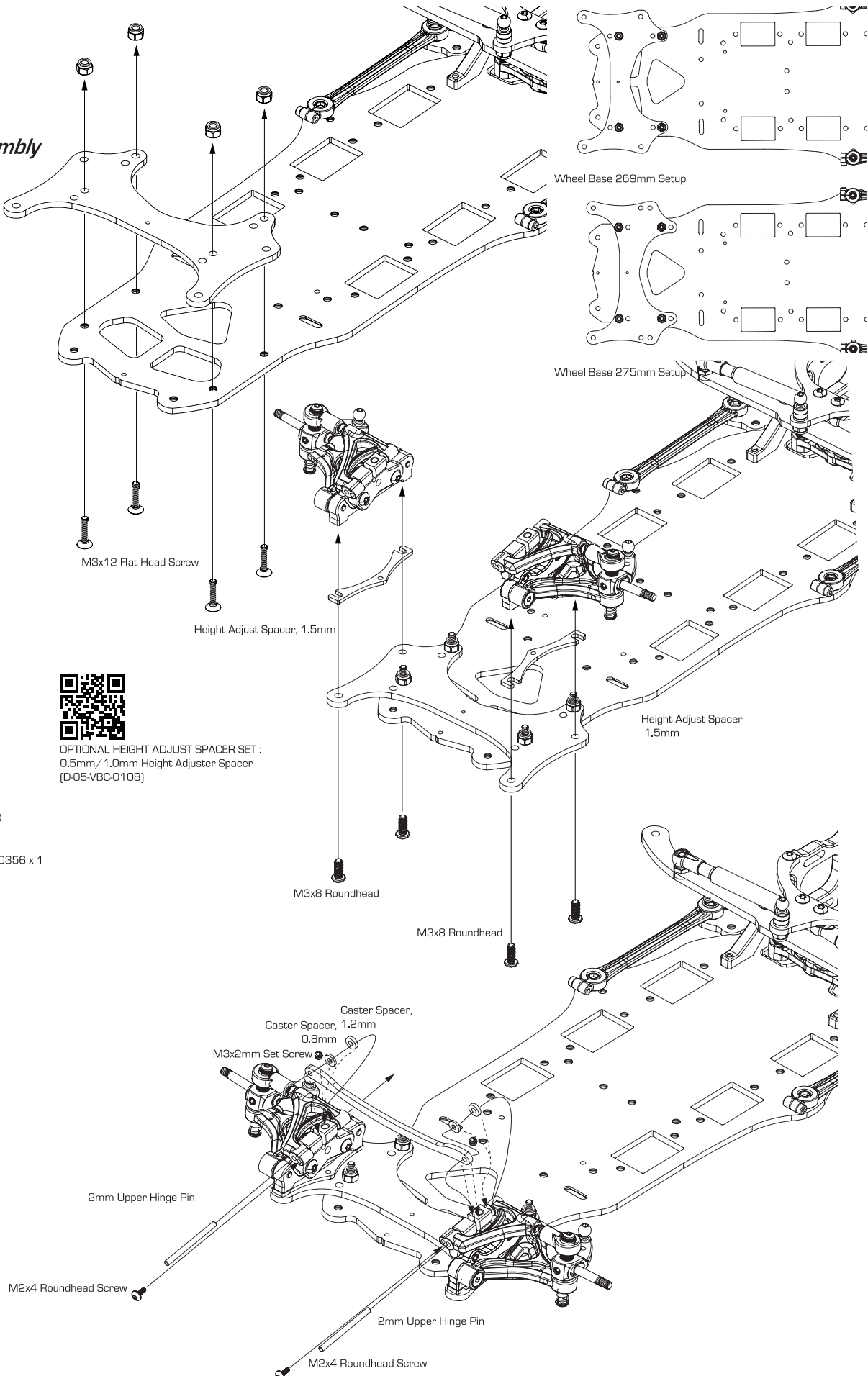
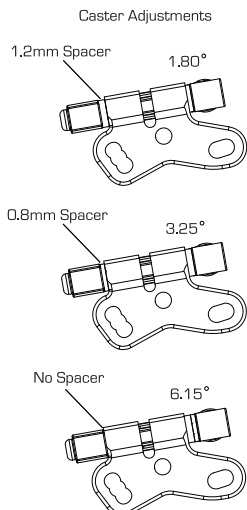
Lightning LM FRP Front Hinge Brace A-01-P50356 x 1



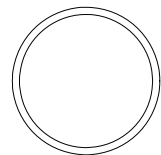
M3x8 Roundhead C-02-SC-R0308 x 4



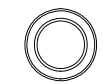
OPTIONAL HEIGHT ADJUST SPACER SET :
0.5mm/1.0mm Height Adjuster Spacer
(D-05-VBC-0108)



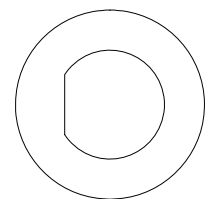
7

Ball Differential Assembly

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

Ball Bearing Flanged 3/8"x1/4"
C-02-BB-3B14F x 4

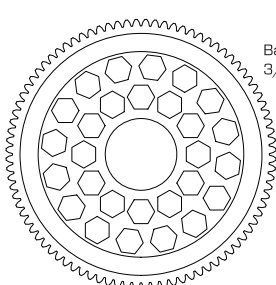
Ball Bearing 3/8"x1/4" C-02-BB-3B14 x 1



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



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



64 Pitch 88T Spur Gear A-03-P50232 x 1



Thrust Cone B-02-VBC-5081 x 1



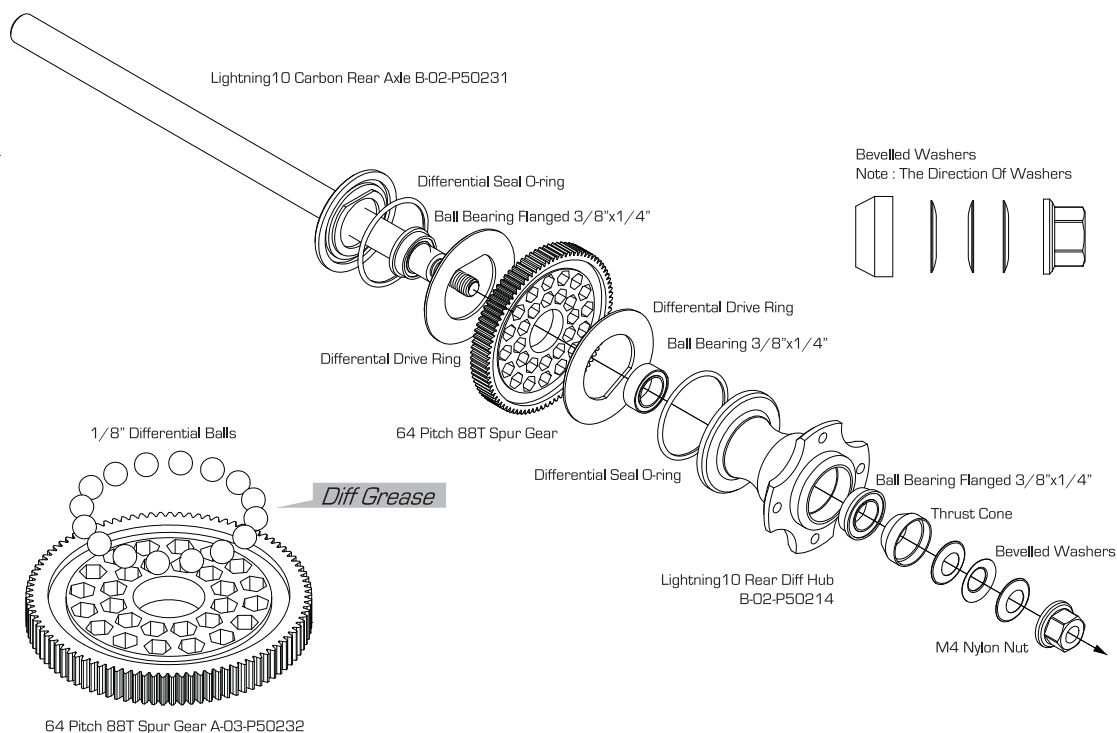
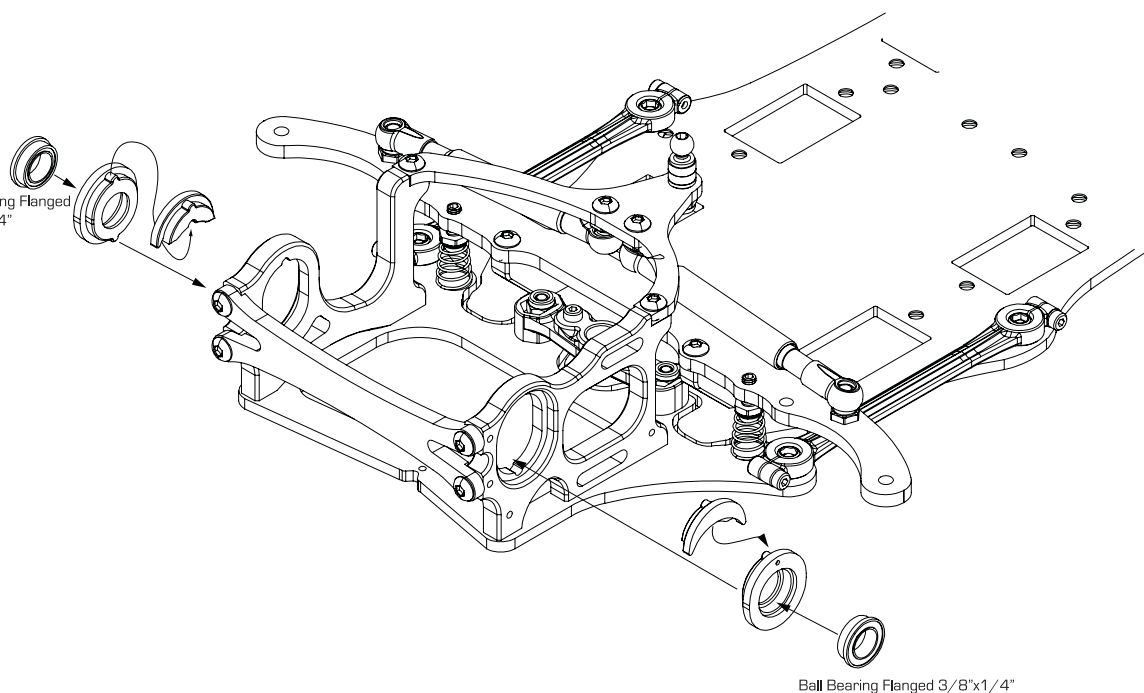
Bevelled Washer C-02-VBC-5076 x 3



M4 Nylon Nuts A-02-VBC-5075 x 1

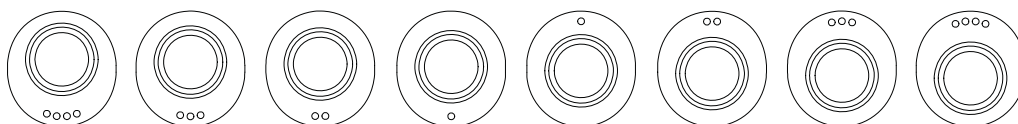


Axle Height Adjuster Spacer A-01-VBC-5131 x 2

Bevelled Washers
Note : The Direction Of WashersLightning12 Axle Height Adjuster
D-05-VBC-0114

High

Low

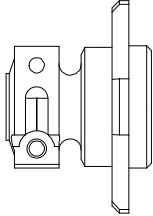


7

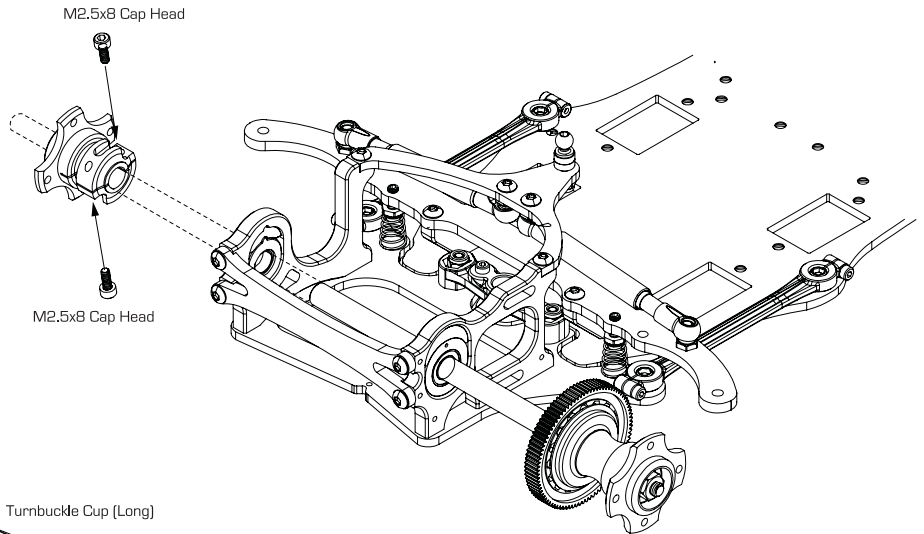
Ball Differential Assembly



M2.5x8 Cap Head Screw C-02-SC-R2508 x 2

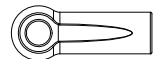


Lightning 10 Left Rear Wheel Hub B-02-P50213 x 1



8

Servo And Top Plate Assembly



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



50mm Turnbuckle for Lightning Series B-02-P50234 x 2



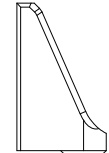
M3x6x0.5mm Spacer B-02-VBC-5093 x 4



M3x8 Roundhead C-02-SC-R0308 x 4



Ball Connector 4.7x17mm A-02-VBC-5092 x 2



Alum Servo Mount for Low Profile Servo B-02-P50262



T1 7075 Spacer B-02-VBC-0019-10 x 2



T2 7075 Spacer B-02-VBC-0019-20 x 4



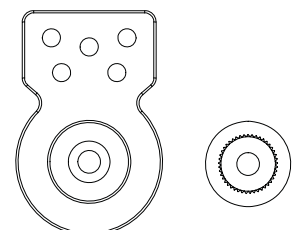
Servo Spacer 1mm A-03-VBC-0032 x 2



Servo Spacer 2mm A-03-VBC-0033 x 2

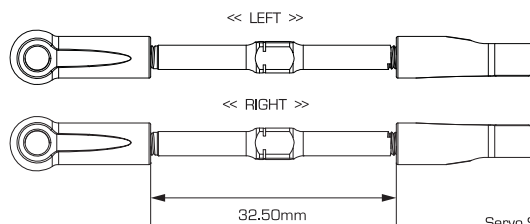
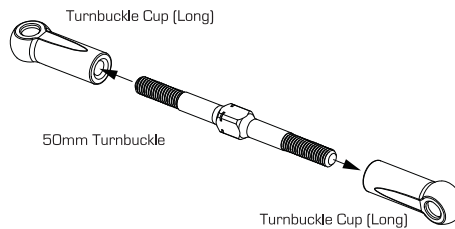


M3 Locknut C-02-SC-NN03 x 2

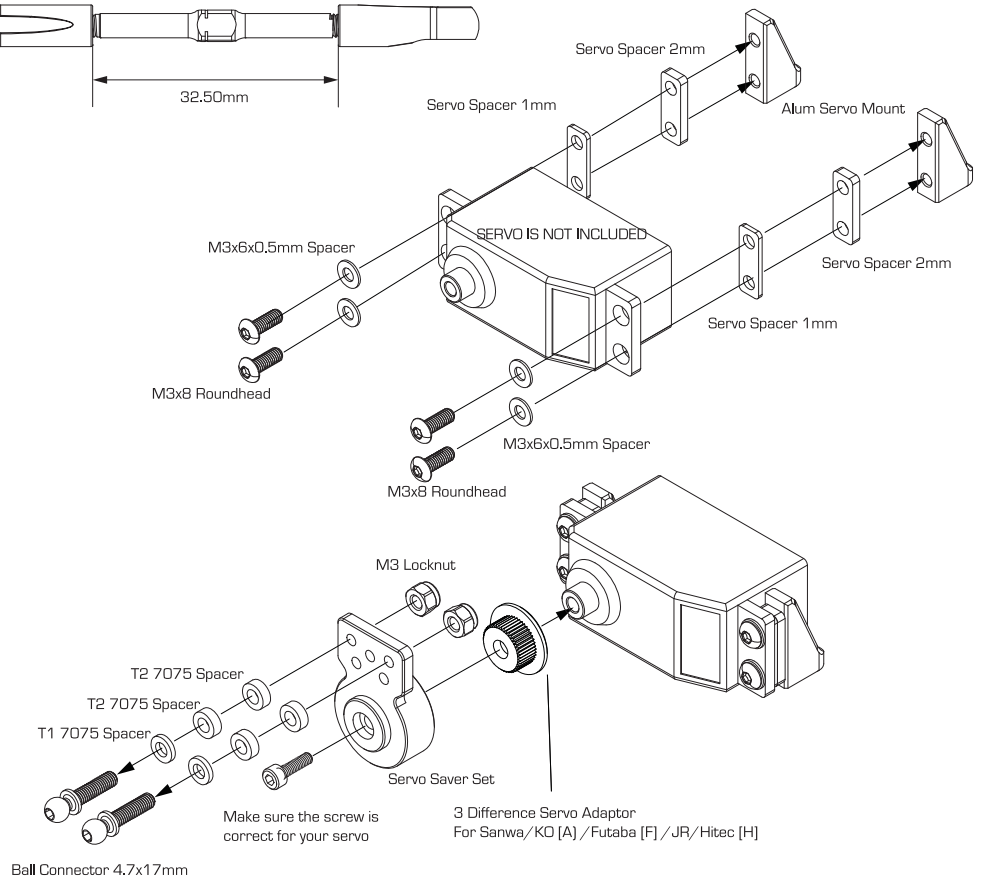


Servo Saver Set B-03-VBC-5017 x 1

© VBC Racing LIGHTNING LM

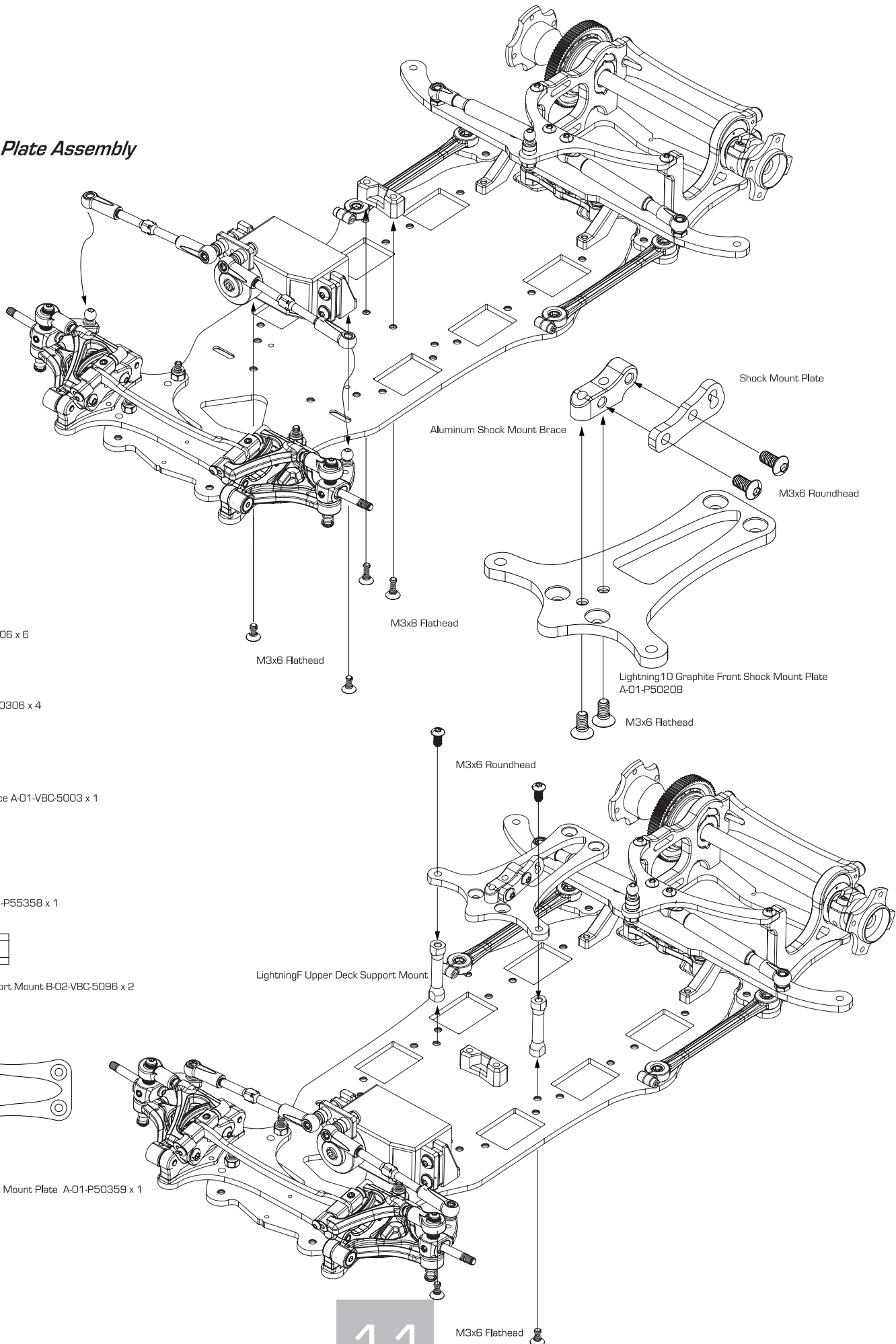


Optional : Tie Rod Wrench Set D-05-VBC-0048



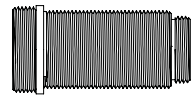
8

Servo And Top Plate Assembly

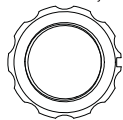


9

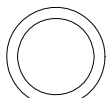
Assemble TBX Shock



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 (Blue) C-02-VBC-5037 x 1



M2x6mm O-ring (Clean) R-02-P50264 x 1



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



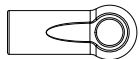
TBX Piston [3 Holes] A-02-VBC-5028 x 1



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



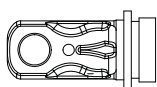
M1.5 E-Clip C-02-VBC-5038 x 2



TBX Shock Ball End B-02-VBC-5033 x 1



TBX Shock O-ring Guard A-02-VBC-5029 x 1



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

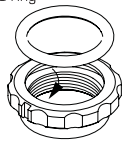


M1.0x7.5 O-ring C-02-VBC-5036 x 1



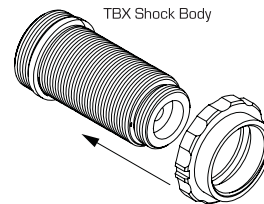
5mm Pivot Ball A-03-VBC-1027 x 1

M1.5x10 O-ring

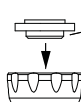


TBX Spring Adjuster

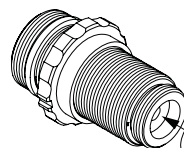
Insert Sealer O-Ring inside the Spring Adjuster Groove



TBX Shock Body



Note The Direction Of O-ring Guard



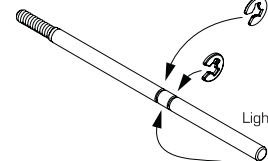
M2x6mm O-ring (Clean)



TBX Shock Bottom Cap

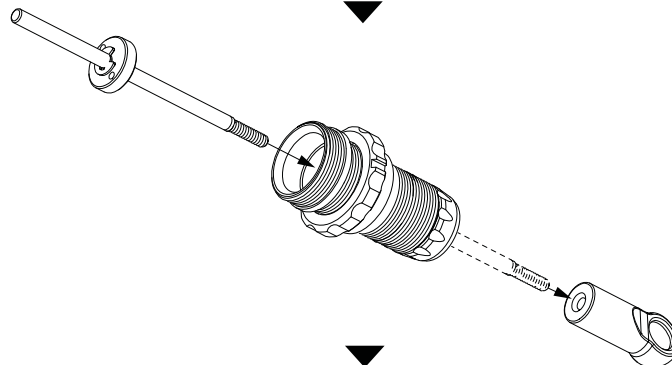
Shock Bottom O-ring Guard

M1.5 E-Clip



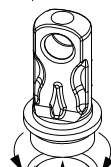
Lightning12 TBX Shock Shaft

TBX Piston [2 Holes]



TBX Shock Ball End

TBX Shock Thru Cap



Aluminum Shock Cap B-02-VBC-5022

M1.0x7.5 O-ring

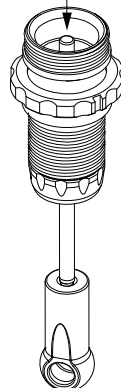
Note The Direction Of O-ring Guard



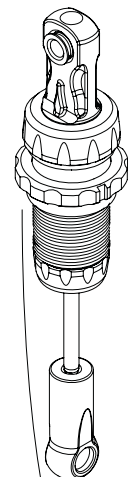
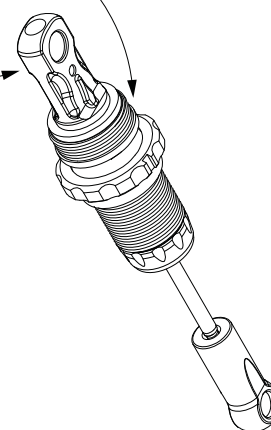
M2x6mm O-ring (Blue)

TBX Shock O-ring Guard

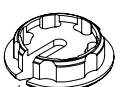
Fill supplied shock oil and remove air by moving the piston up and down until air bubbles disappear



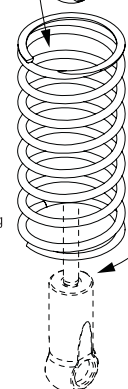
5mm Pivot Ball



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



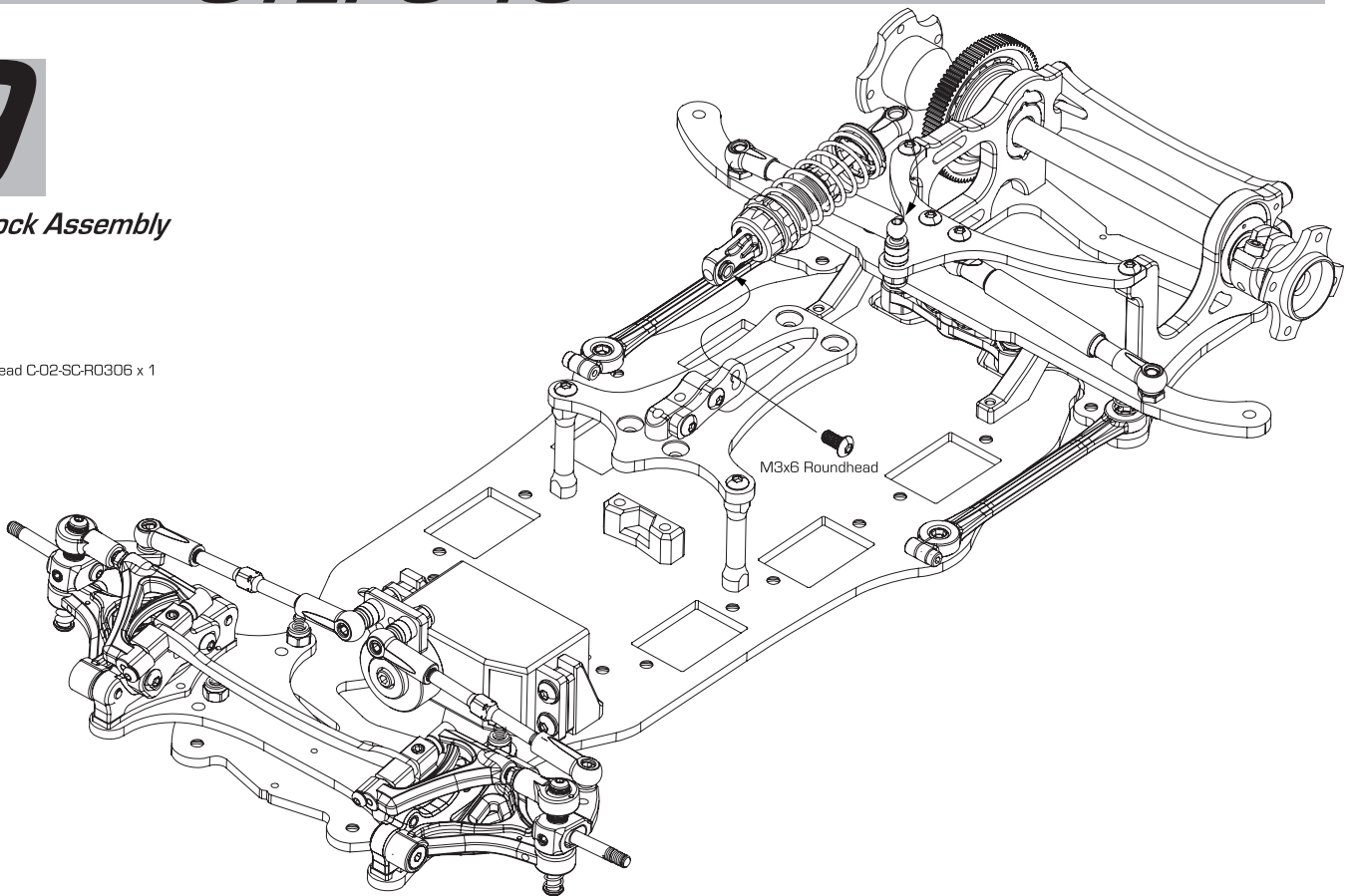
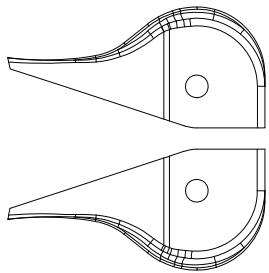
Lightning12 TBX Spring [Gold/Medium] C-02-VBC-5034



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

9**TBX Shock Assembly**

M3x6 Roundhead C-02-SC-R0306 x 1

**10****Front Bumper Assembly**

Lightning12 Plastic Front Bumper D-05-VBC-0112 x 1



M3x10mm Flat Head Screw C-02-SC-F0310 x 2



M3x8mm Flat Head Screw C-02-SC-F0308 x 2



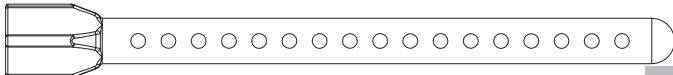
M3 Locknut C-02-SC-NN03 x 2



M2x12 Shaft Pin B-02-VBC-0022 x 2

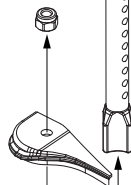


Body Height Adjuster Support A-03-VBC-0015 x 2



Front Body Post A-03-VBC-0013 x 2

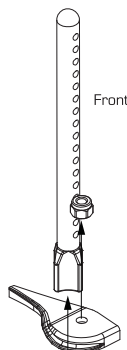
Front Body Post



M3x8mm Flat Head

M3x10mm Flat Head

Front Body Post



M3x10mm Flat Head

M3x8mm Flat Head

Body Height Adjuster Support



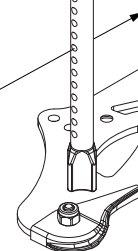
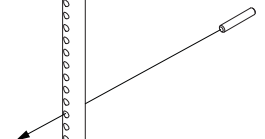
M2x12 Shaft Pin

Lightning10 235 Graphite
Front Bumper A-01-P50273

Body Height Adjuster Support



M2x12 Shaft Pin

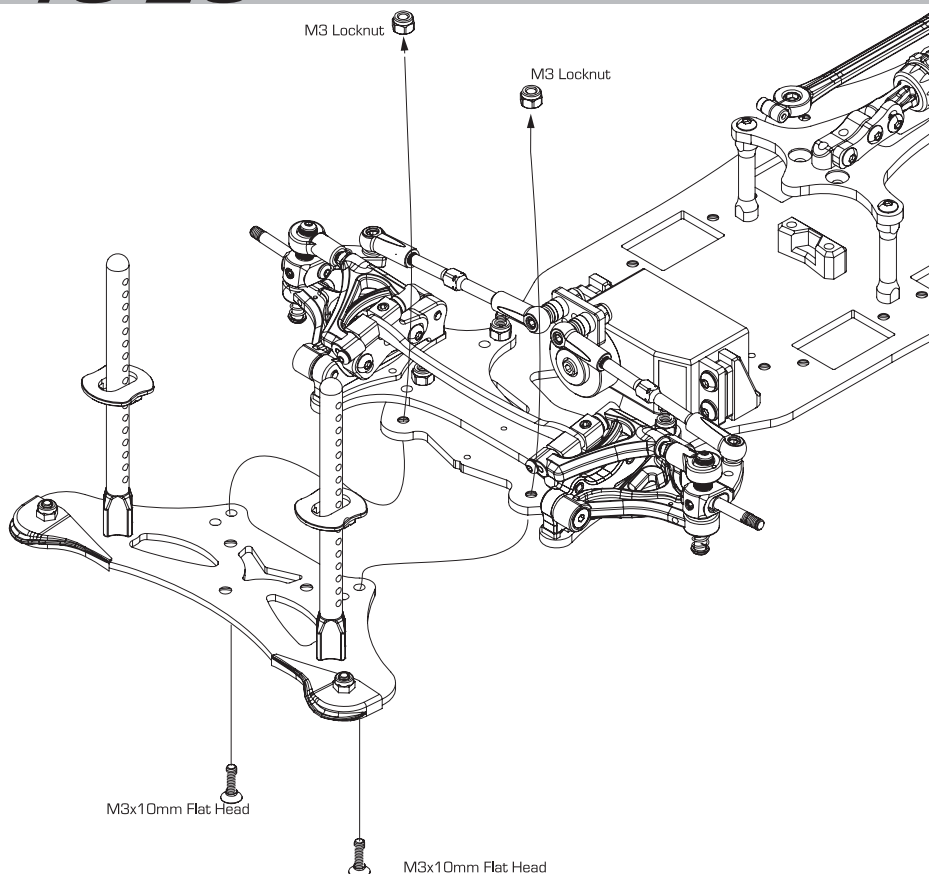


11**Installing Front Bumper**

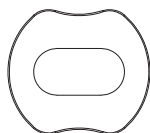
M3 Locknut C-02-SC-NN03 x 2



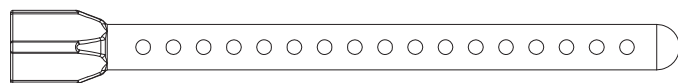
M3x10mm Flat Head Screw C-02-SC-F0310 x 2

**12****Rear Body Post Assembly**

M2x12 Shaft Pin B-02-VBC-0022 x 2



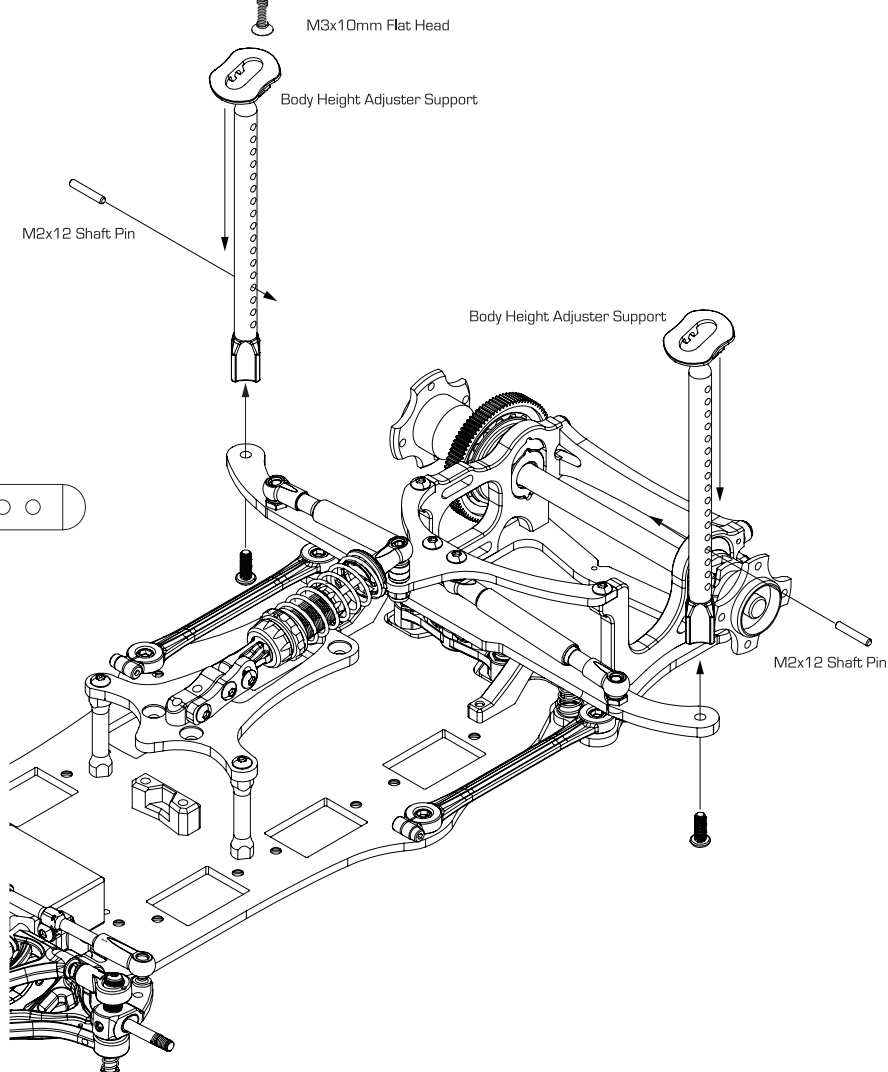
Body Height Adjuster Support A-03-VBC-0015 x 2

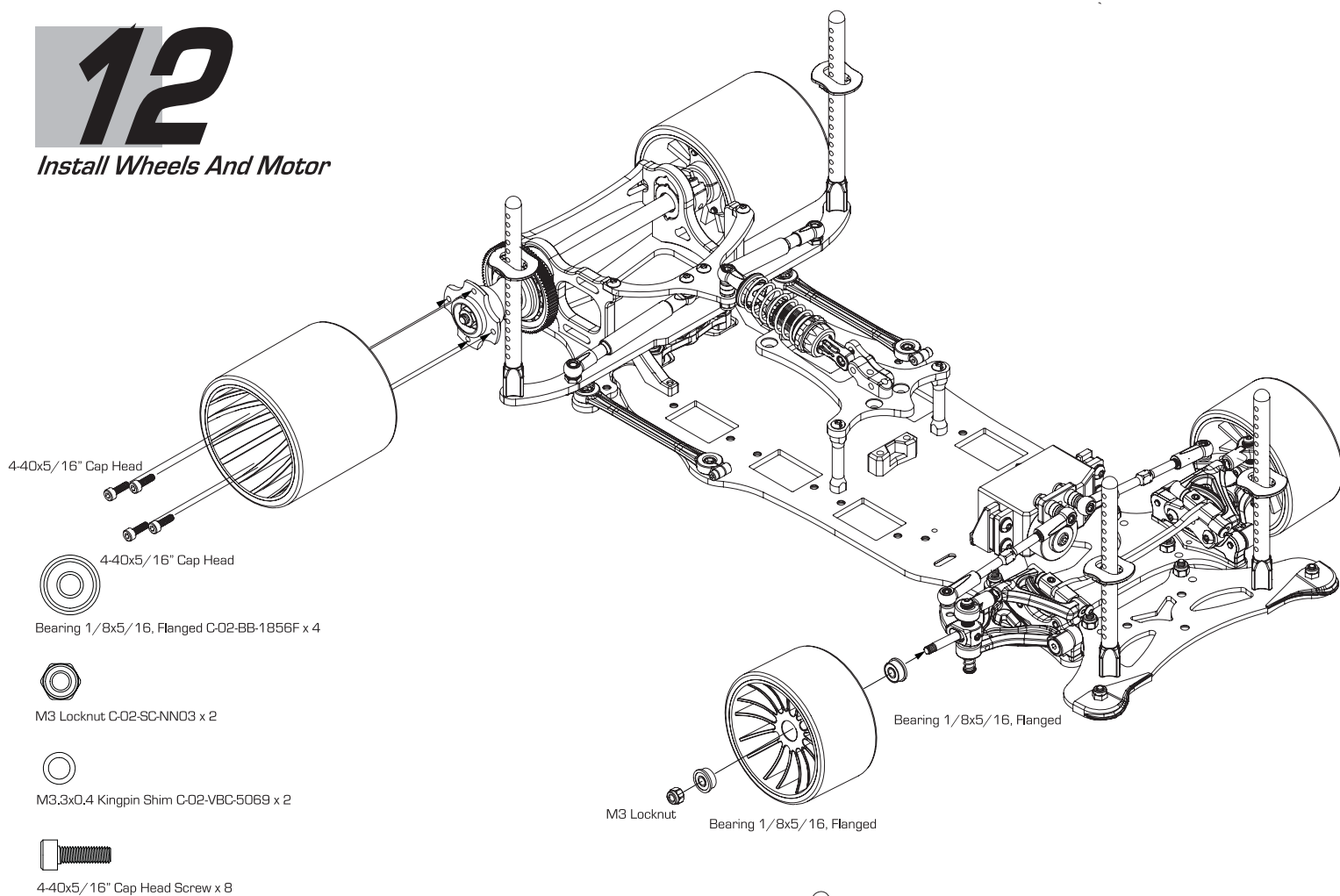
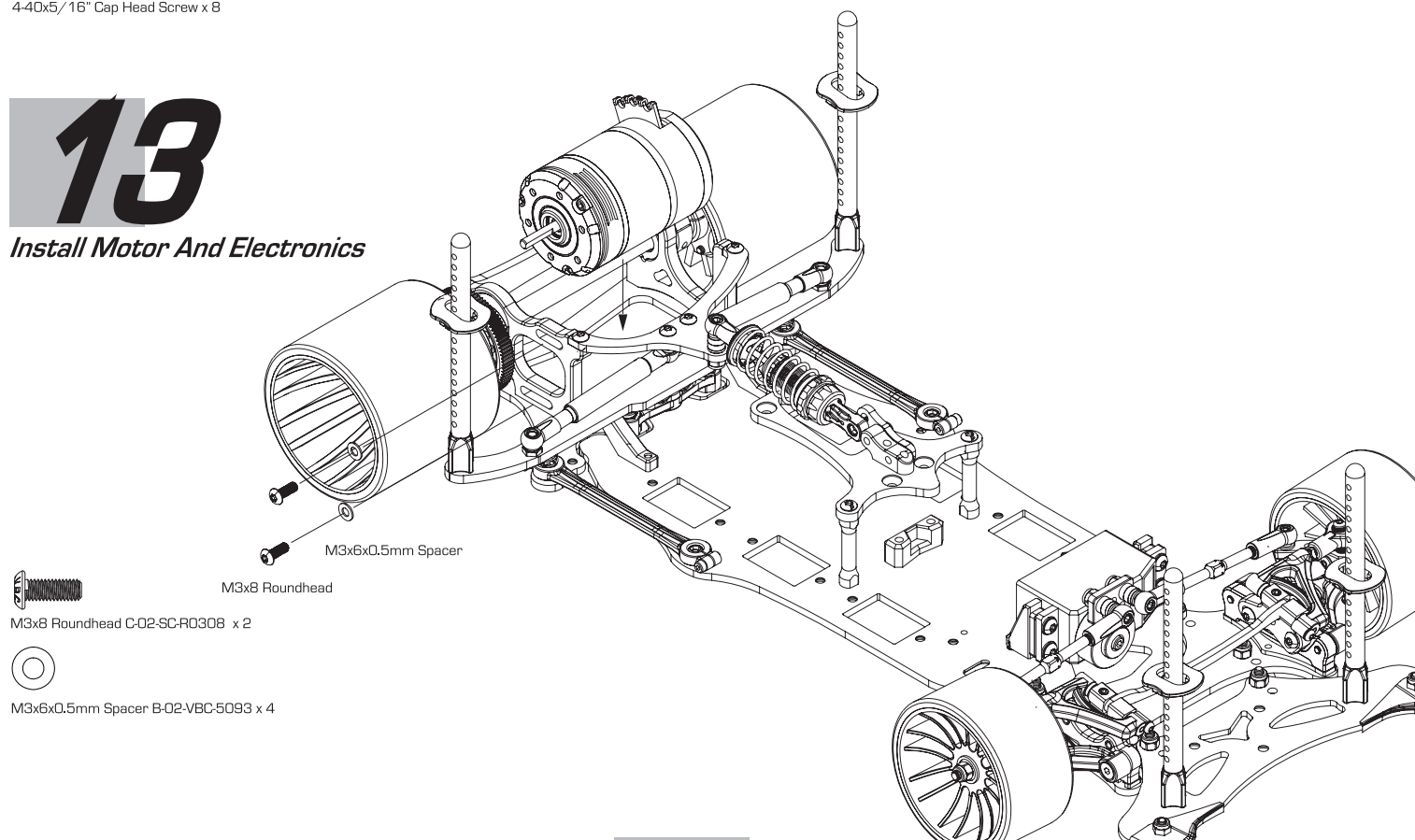


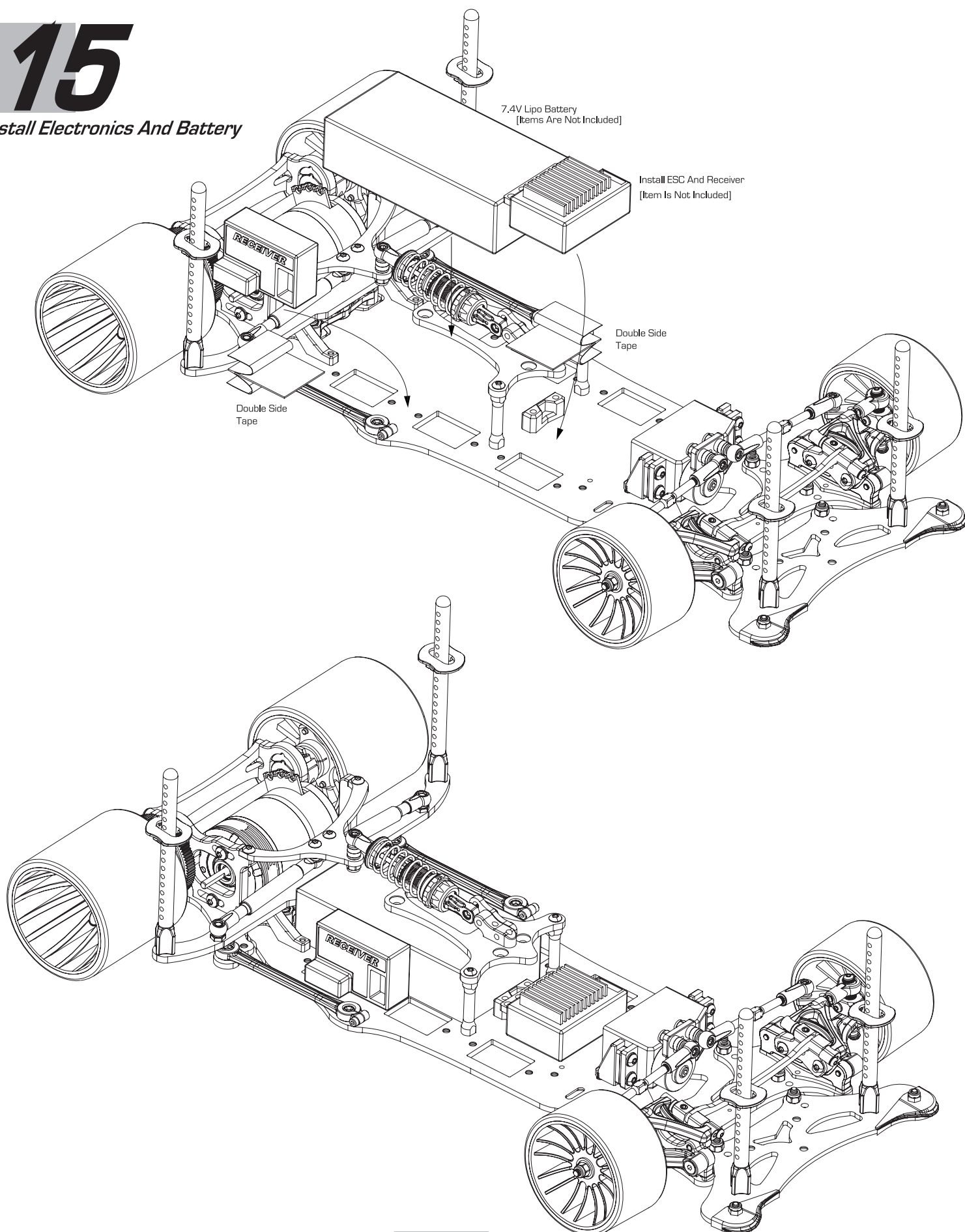
Front Body Post A-03-VBC-0013 x 2



M3x8 Roundhead C-02-SC-R0308 x 2



12***Install Wheels And Motor*****13*****Install Motor And Electronics***

15***Install Electronics And Battery*****16**



COMPETITION GRADE HIGH PERFORMANCE RADIO CONTROL RACING CAR CHASSIS KIT

LIGHTNINGLM

1/10 SCALE ELECTRIC COMPETITION PAN CAR KIT

Instruction Book P-01-50589 VBC Racing LightningLM 1/10 Pan Car Kit D-05-VBC-CK12