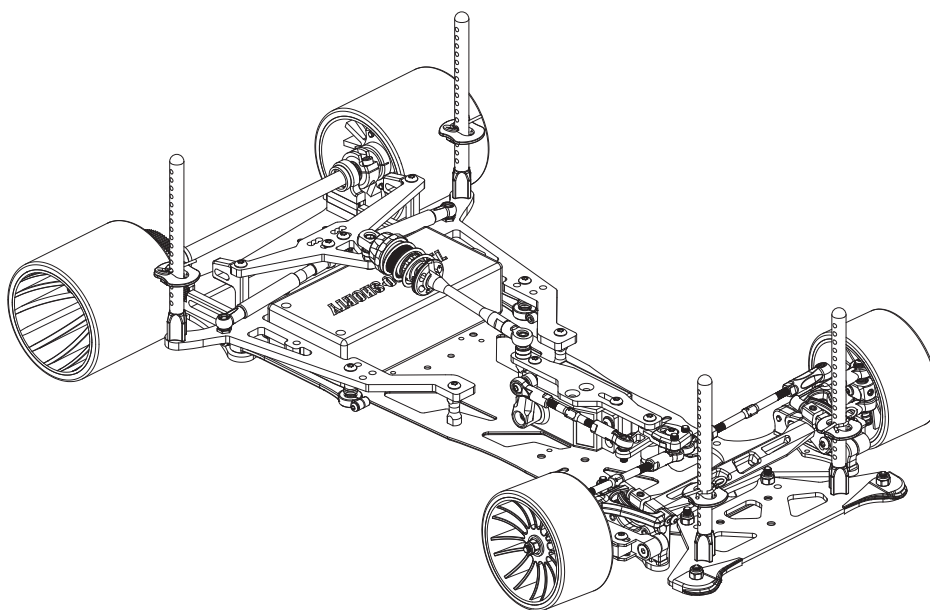


COMPETITION GRADE HIGH PERFORMANCE RADIO CONTROL RACING CAR CHASSIS KIT

LIGHTNING 10X 235

1/10 SCALE ELECTRIC COMPETITION CAR KIT



INSTRUCTIONS MANUAL

vbc racing

E

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.

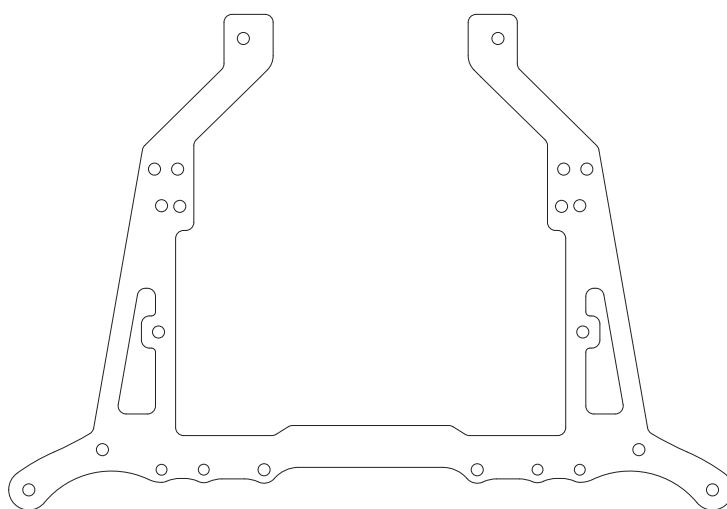
If you need help or you would like to leave us a comment, please email to our support team: support@vbc-racing.com or visit our web site www.vbcrcracing.com



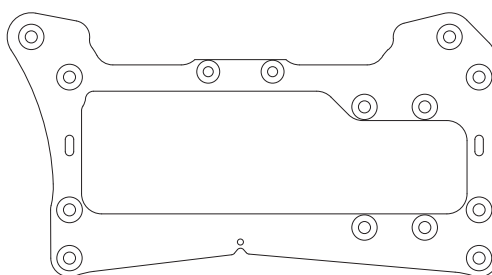
1***Graphite Edges Protection Procedure***

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

*Not included in this kit



51717 Lightning10X235 Upper Deck



51710 Lightning10X235 Rear Pod Plate

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

2**Pivot Brace Assembly Part 1**

Main Pivot B 51581 x 1



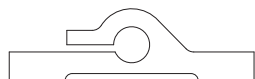
M2x6 Cap Head Screw C-02-SC-R2.0x6 x 1



4.9mm Ball Connector 6mm Long 31517 x 1



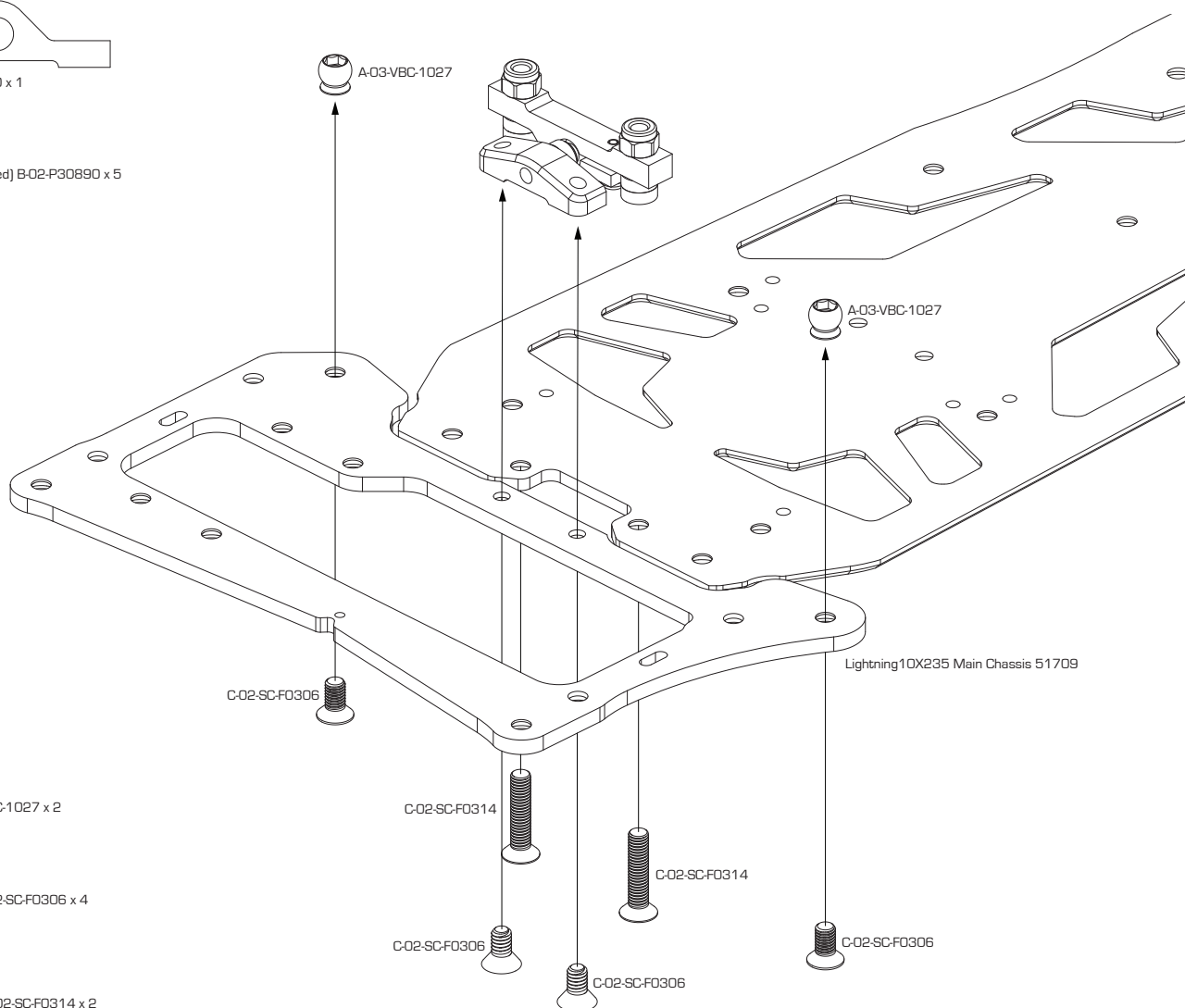
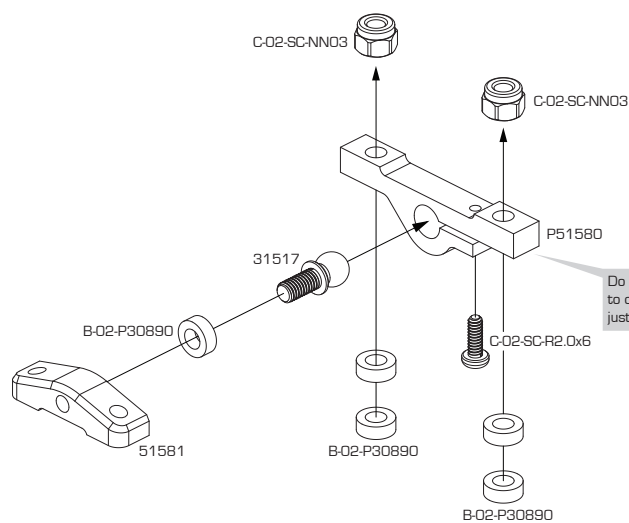
M3 Locknut C-02-SC-NN03 x 2



Main Pivot A 51580 x 1



T2 7075 Spacer (Red) B-02-P30890 x 5



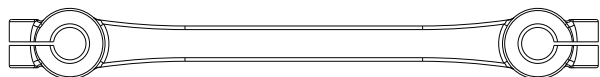
Pivot Balls A-03-VBC-1027 x 2



M3x6 Flathead C-02-SC-F0306 x 4



M3x14 Flathead C-02-SC-F0314 x 2

2**Pivot Brace Assembly Part2**

Pod Link A-03-VBC-5009 x 2



M2x6mm Roundhead Screw C-02-SC-R0206 x 4



M3 X 8mm Post B-02-P50607 x 2



M3x10mm Flathead Screw C-02-SC-F0310 x 2



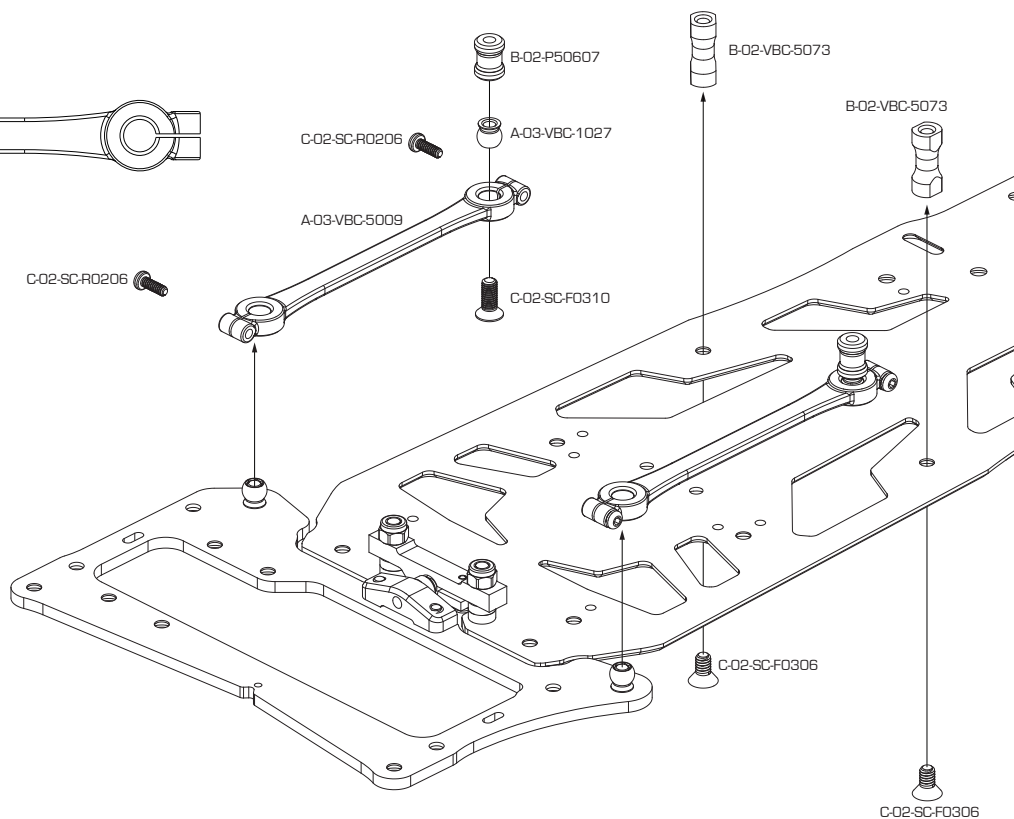
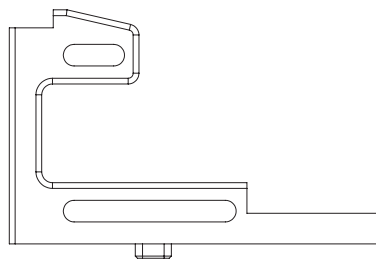
Pivot Balls A-03-VBC-1027 x 2



14mm Aluminum Standoff B-02-VBC-5073 x 2



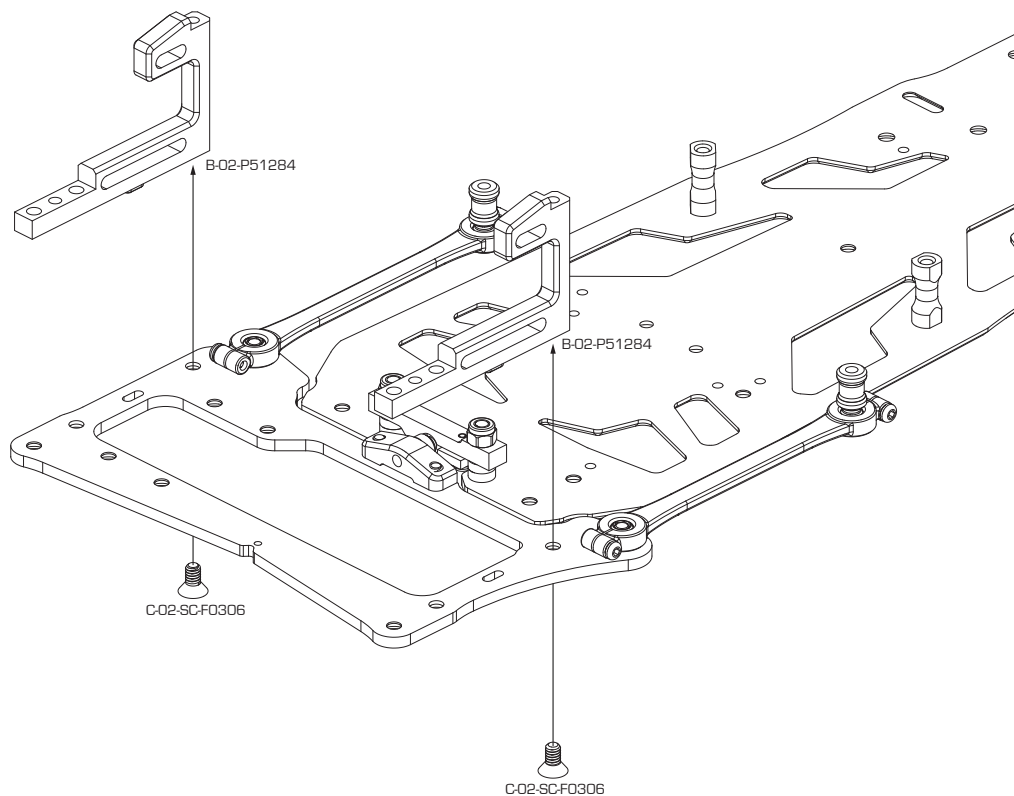
M3x6 Flathead C-02-SC-F0306 x 2

**3****Rear Bulkhead Assembly Part1**

Lightning FXM Motor Mount B02P51284 x 2



M3x6 Flathead C-02-SC-F0306 x 2

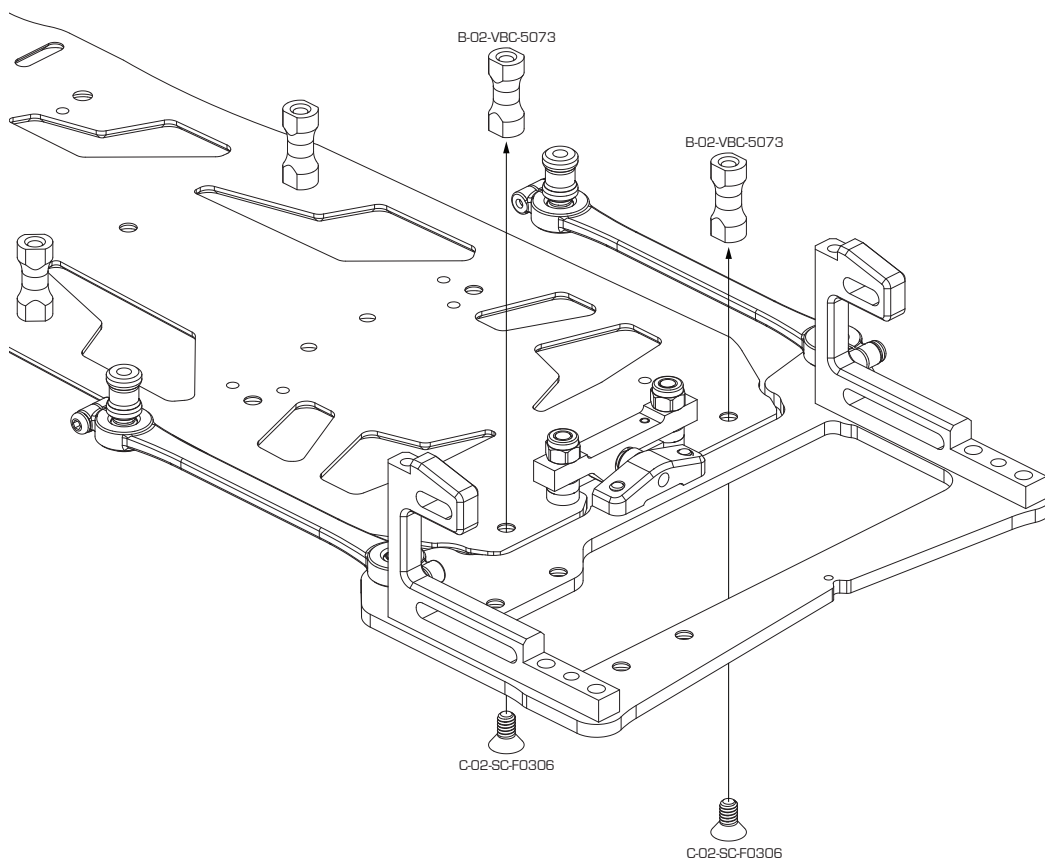


3**Chassis Brace Assembly**

M3x6 Flathead C-02-SC-F0306 x 2



14mm Aluminum Standoff B-02-VBC-5073 x 2

**4**

4.7mm Thin Ball Nuts B-02-P51288 x 2



C-02-SC-R0308 x 2



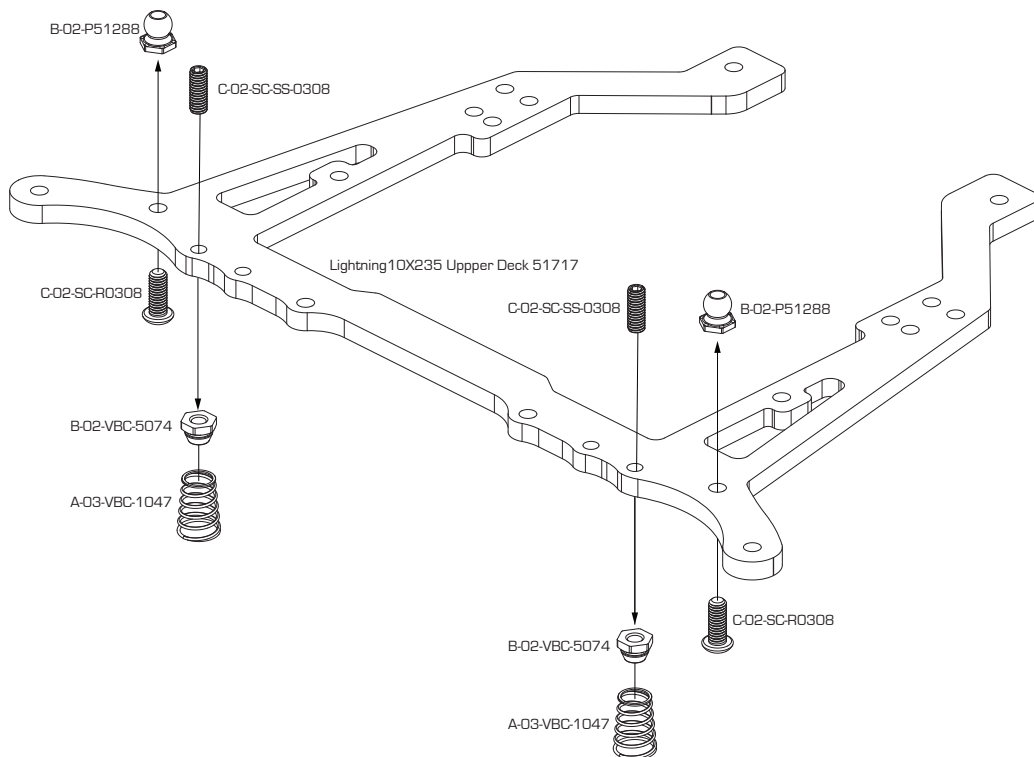
Aluminium Side Spring Retainer B-02-VBC-5074 x 2



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

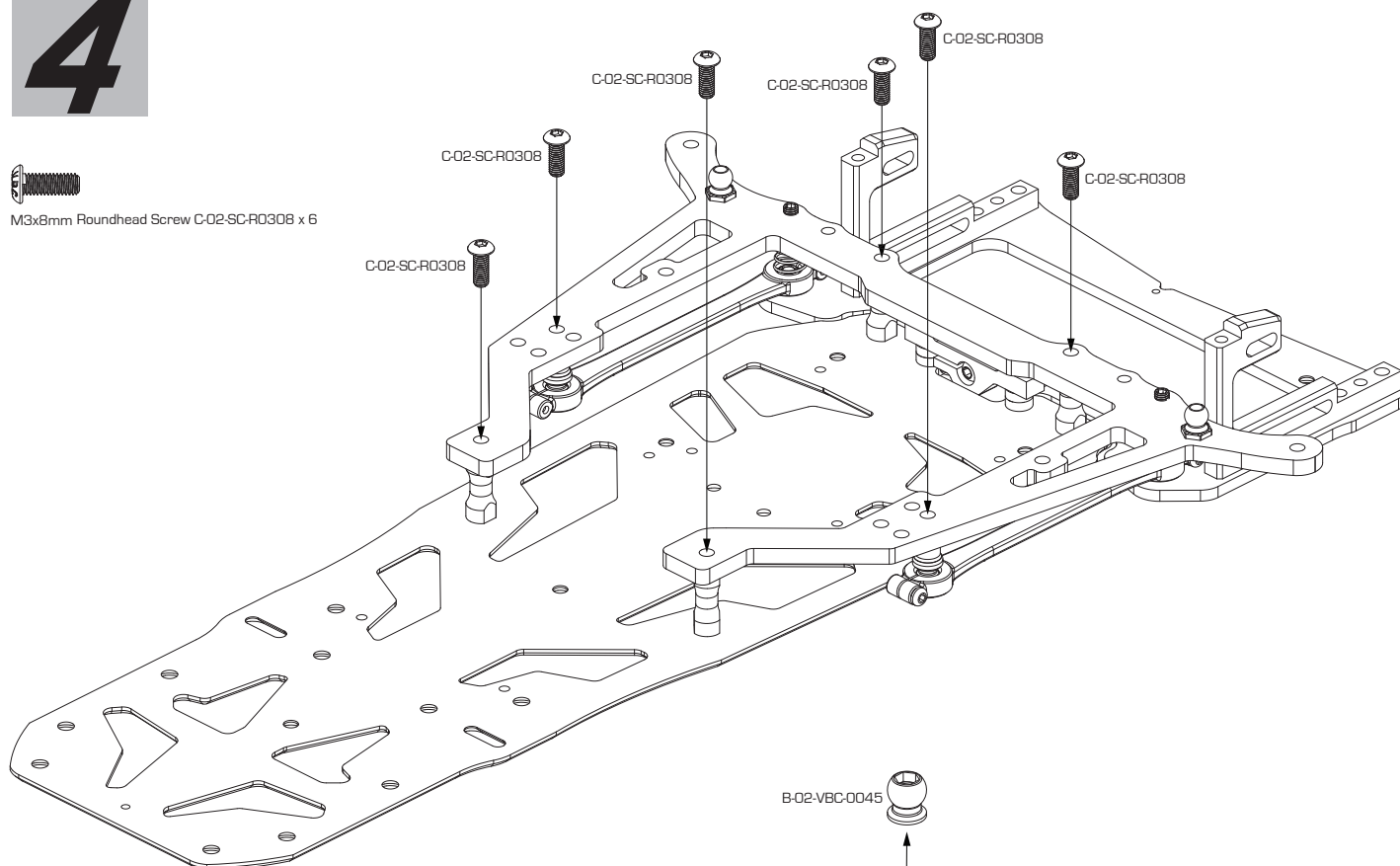


M3x8 Set Screw C-02-SC-SS-0308 x 2



4

M3x8mm Roundhead Screw C-02-SC-R0308 x 6



Ball Connector B-02-VBC-0045 x 1



T2 7075 Spacer[Red] B-02-P30890 x 1



M3 Hex Nut C-02-SC-FN03 x 1



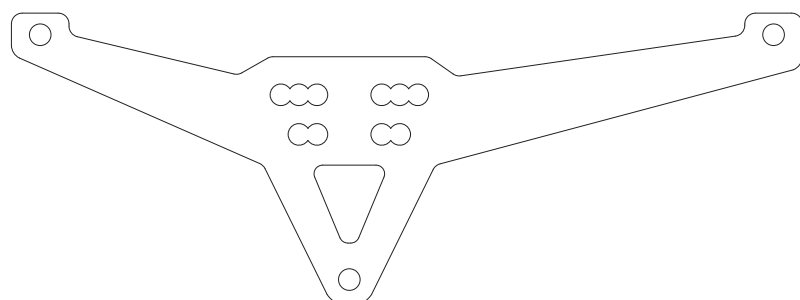
M3x12mm Roundhead Screw C-02-SC-R0312 x 1



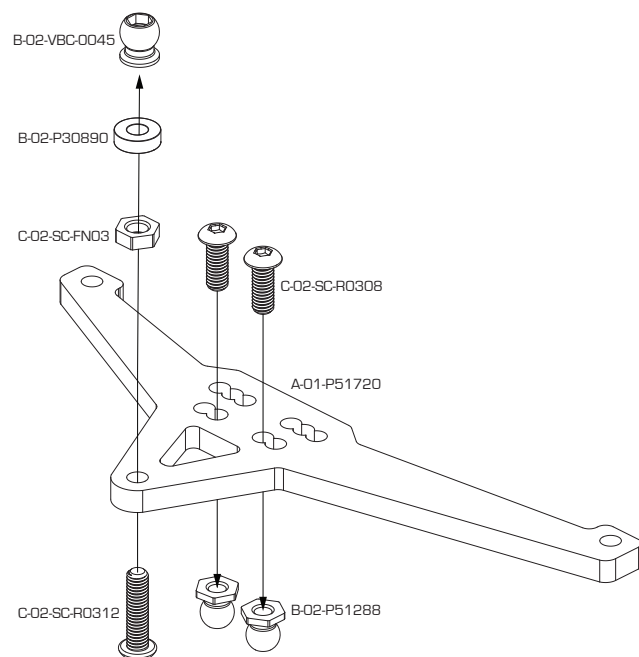
M3x8mm Roundhead Screw C-02-SC-R0308 x 2

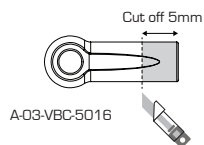


4.7mm Thin Ball Nuts B-02-P51288 x 2

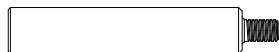


Lightning10X235 Upper Pod Plate A-01-P51720 x 1



5**Side Damper Tube Assembly****MAKE FOUR****X 4**

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



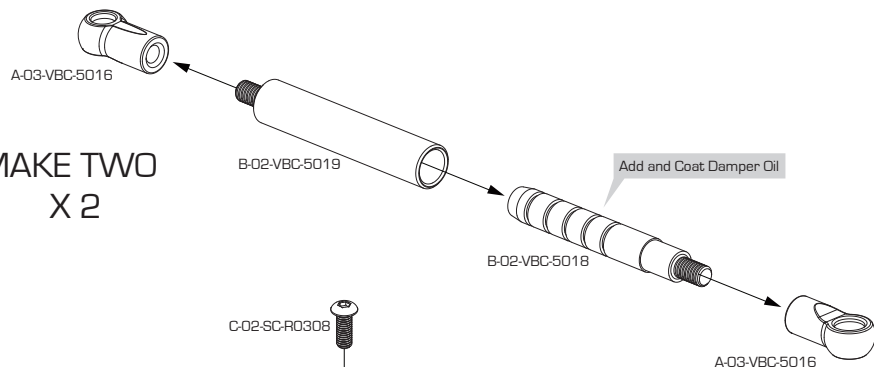
Damper Tube B-02-VBC-5019 x 2



Damper Tube Shaft B-02-VBC-5018 x 2

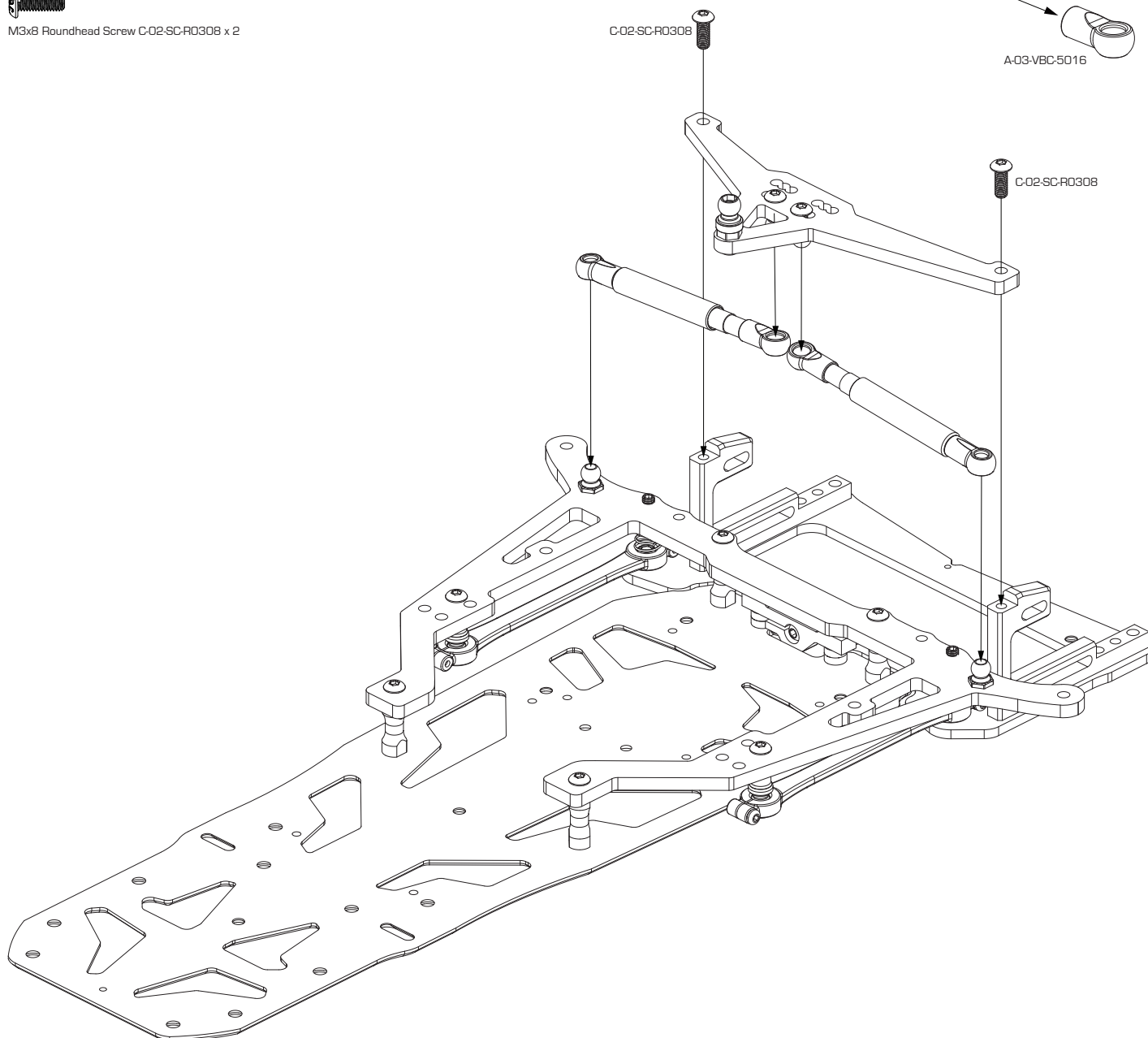


M3x8 Roundhead Screw C-02-SC-R0308 x 2

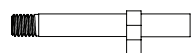
**MAKE TWO
X 2**

C-02-SC-R0308

C-02-SC-R0308



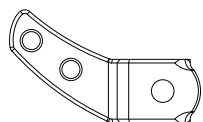
6



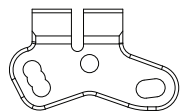
Lightning 12 Front Axle B-02-VBC-5060 x 2



4.9mm Ball Connector 6mm Long 31517 x 2



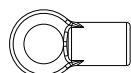
Lightning WGT ALU7075 Steering Knuckle B-02-P50233 x 2



Alum Front Upper Arm Mount B-02-VBC-5057 x 2



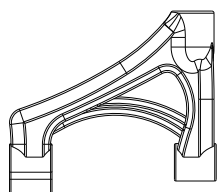
Pivot Ball B-02-VBC-5068 x 4



Front Upper Arm Eyelet A-02-VBC-5052 x 4



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



Front Upper Arm A-03-G51101 x 2



M3x12 Flathead C-02-SC-F0312 x 4



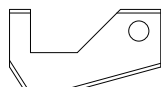
M3x12mm Roundhead Screw C-02-SC-R0312 x 1



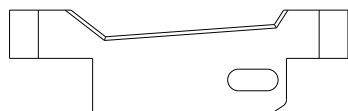
M3x6 Roundhead Screw C-02-SC-R0306 x 2



Damper Inner Spacer A-03-VBC-6063 x 2



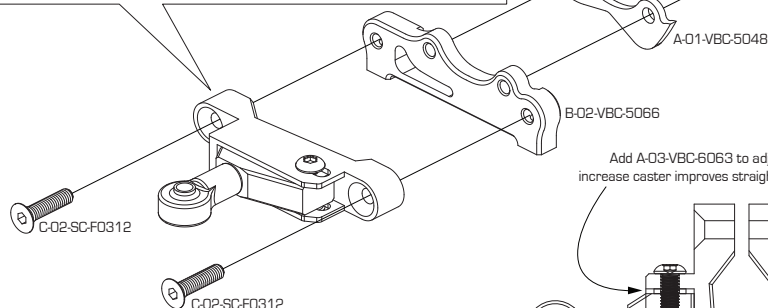
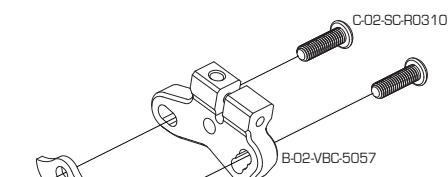
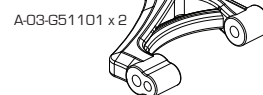
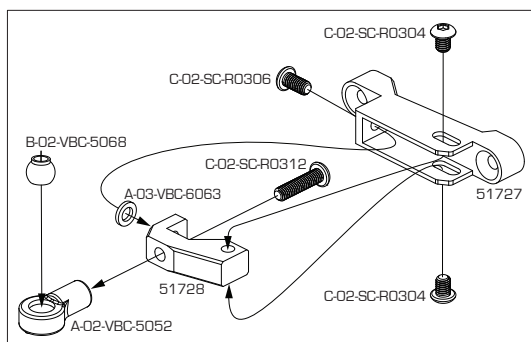
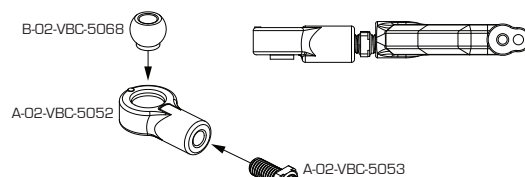
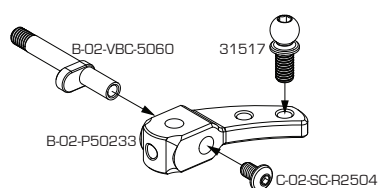
Active Lower Caster Arm 51728 x 2



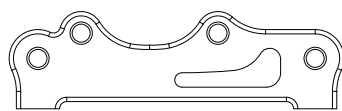
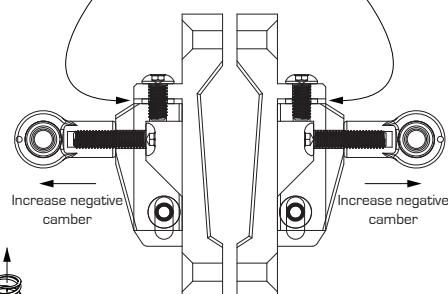
Active Lower Caster Mount 51727 x 2



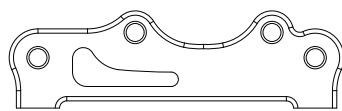
M3x3 Set Screw C-02-SC-SS-0303 x 2



Add A-03-VBC-6063 to adjust bottom caster, increase caster improves straight line stability of the car



Alum Front Bulkhead, Left B-02-VBC-5065 x 1



Alum Front Bulkhead, Right B-02-VBC-5066 x 1



Lightning 12 Front Upper Arm Spacer, 1.5mm A-01-VBC-5048 x 2



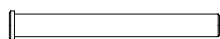
M3x10 Roundhead C-02-SC-R0310 x 4



Front Spring (Medium/Gold) C-02-VBC-5042 x 2



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



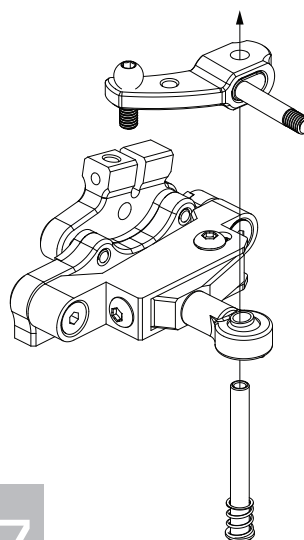
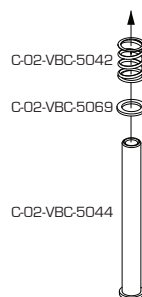
Lightning 12 Kingpin C-02-VBC-5044 x 2



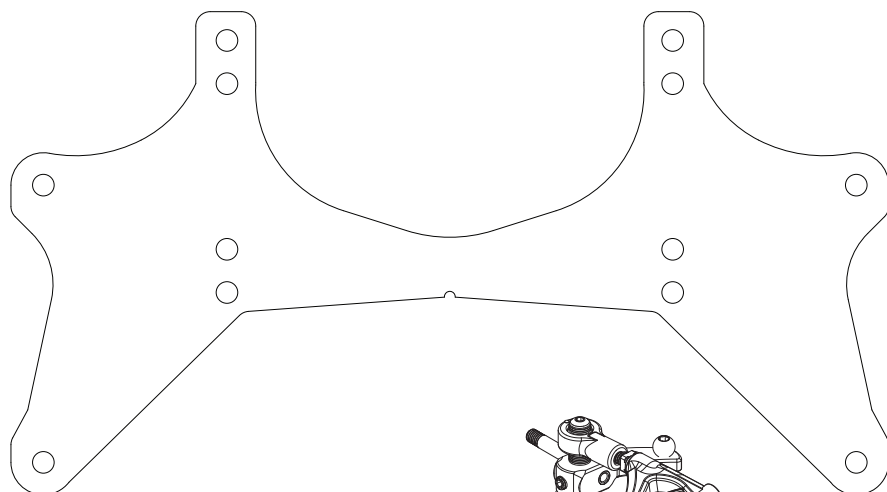
M3x4 Roundhead Screw C-02-SC-R0304 x 4



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



07

6**Front Suspension Assembly**

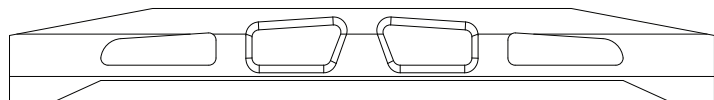
Lightning 10X235 Front Lower Plate 51722 x 1



M3 Lock Nut C-02-SC-NN03 x 4

M3x10mm Flat Head Screw
C-02-SC-F0310 x 4Lightning Height Adjust Spacer, 1.5mm
A-01-VBC-5045 x 2

M3x8 Roundhead C-02-SC-R0308 x 6



98mm Aluminium Aero Front Strut 51723 x 1



Caster Spacer 0.8mm A-01-VBC-5055 x 2



Caster Spacer 1.2mm A-01-VBC-5056 x 2



M3x2mm Set Screw C-02-SC-SS-0302 x 2



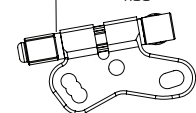
M2x4 Roundhead Screw C-02-SC-R0204 x 2



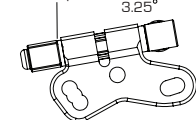
2mm Upper Hinge Pin C-02-VBC-5054 x 2

Caster Adjustments

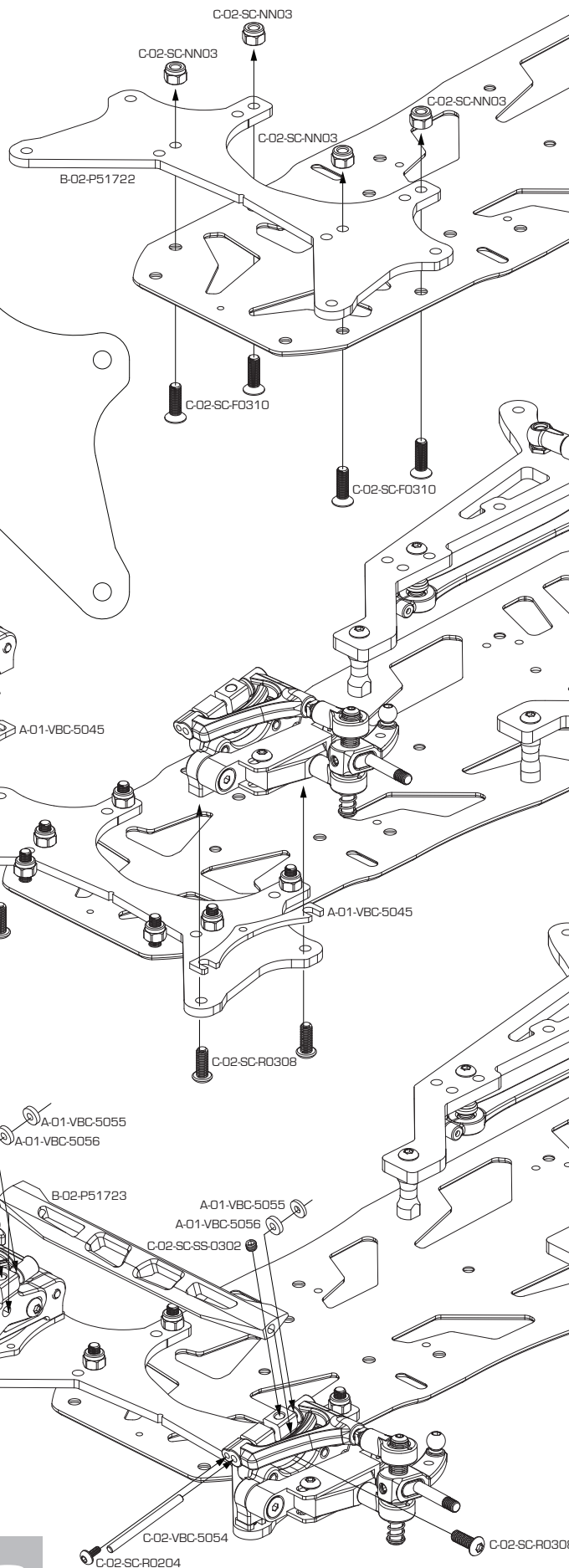
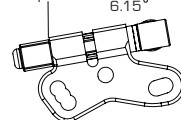
1.2mm Spacer 1.80°



0.8mm Spacer 3.25°



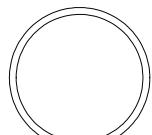
No Spacer 6.15°



7

Ball Differential Assembly

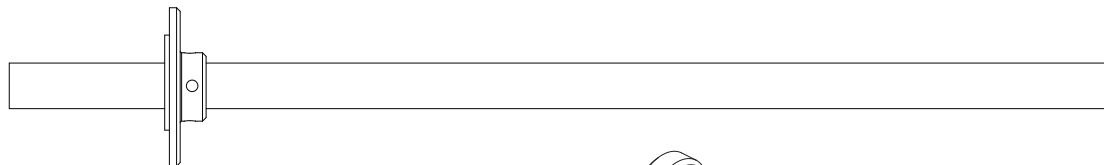
3mm Diff Balls 51761 x 12



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



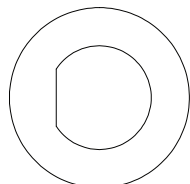
Ball Bearing Flanged 3/8"x1/4"
C-02-BB-3814F x 2



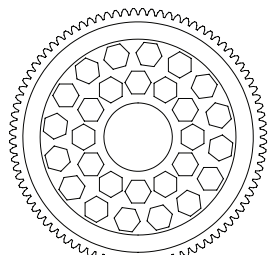
Lightning 10M235 Steel Rear Axle C02P51410 x 1



Thrust Cone B-02-VBC-5081 x 1



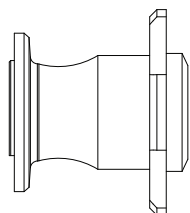
Differential Drive Ring B-02-VBC-1001 x 2



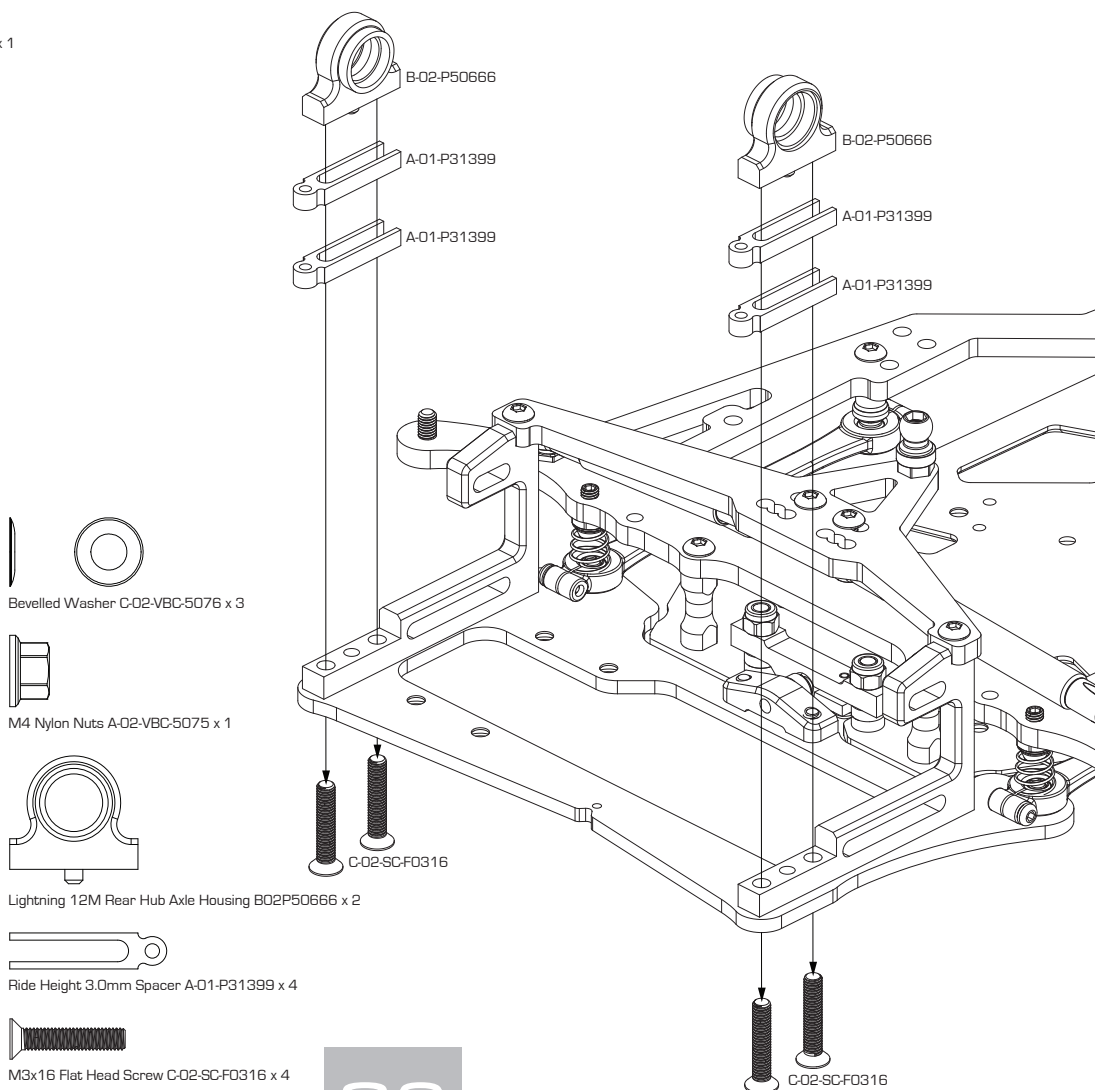
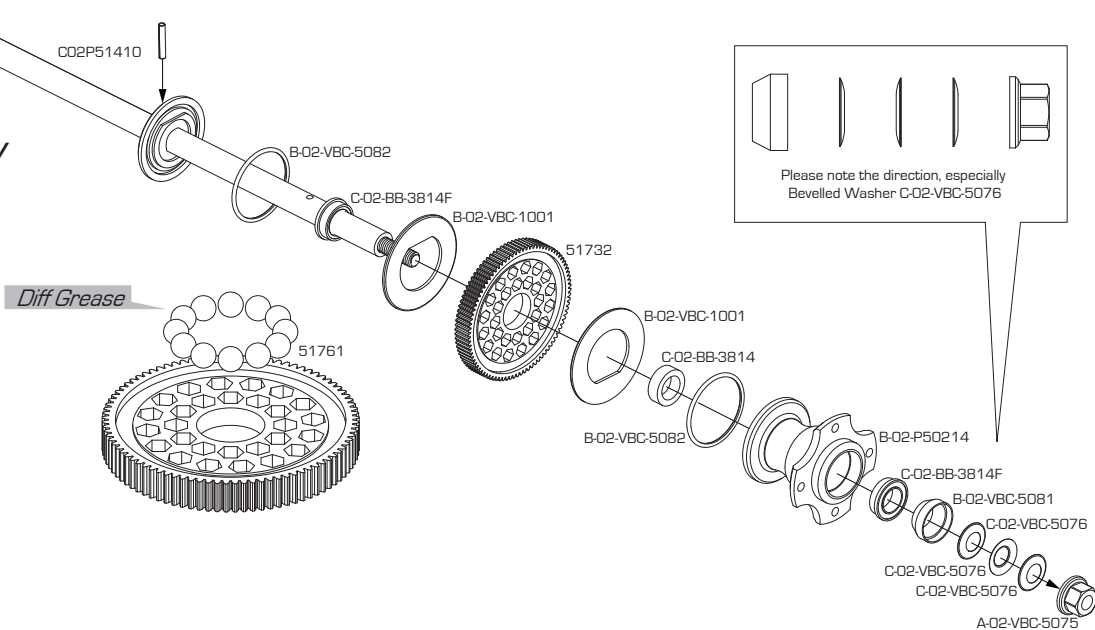
48P B4T Pan Car Spur Gear 51732 x 1



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



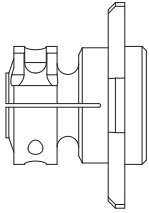
Lightning WGT Rear Diff Hub B-02-P50214 x 1



7

Ball Differential Assembly

M2.5x6 Caphead Screw C-02-SC-R2506 x 2



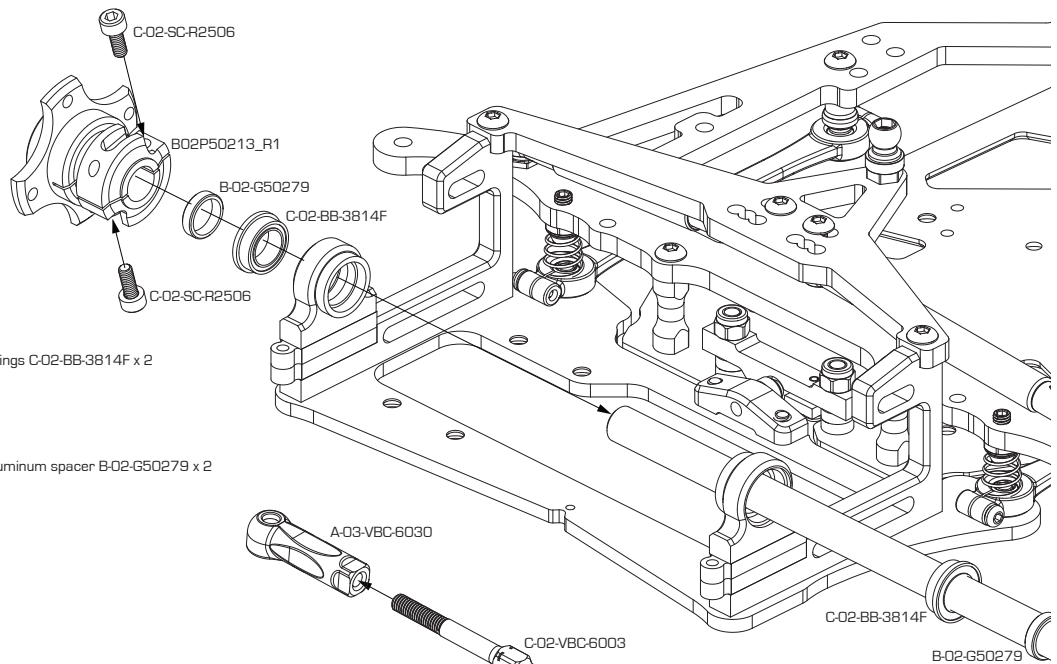
LightningWGT Left Rear Wheel Hub B02P50213 x 1



3/8 x 1/4, Flanged Bearings C-02-BB-3814F x 2



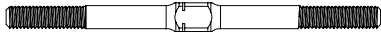
6.5mm x 8mm x 2mm aluminum spacer B-02-G50279 x 2



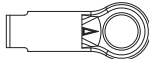
8

Servo And Top Plate Assembly

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



3x52mm Hardened Springsteel Turnbuckle C-02-VBC-6003 x 2



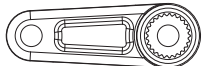
Ball Connector (Long) 31478 x 4



32mm Turnbuckle B-02-VBC-5102 x 1



4.9mm Ball Connector 6mm Long 31517 x 4

Servo Horn Type F (Composite) A-03-VBC-0053 x 1
Servo Horn Type A (Composite) A-03-VBC-0054 x 1

M3x6 Roundhead Screw C-02-SC-R0306 x 3



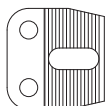
M3x6x0.5 Washer B-02-VBC-5093 x 2



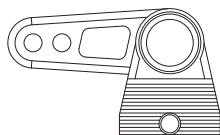
M3x4 Roundhead Screw C-02-SC-R0304 x 1



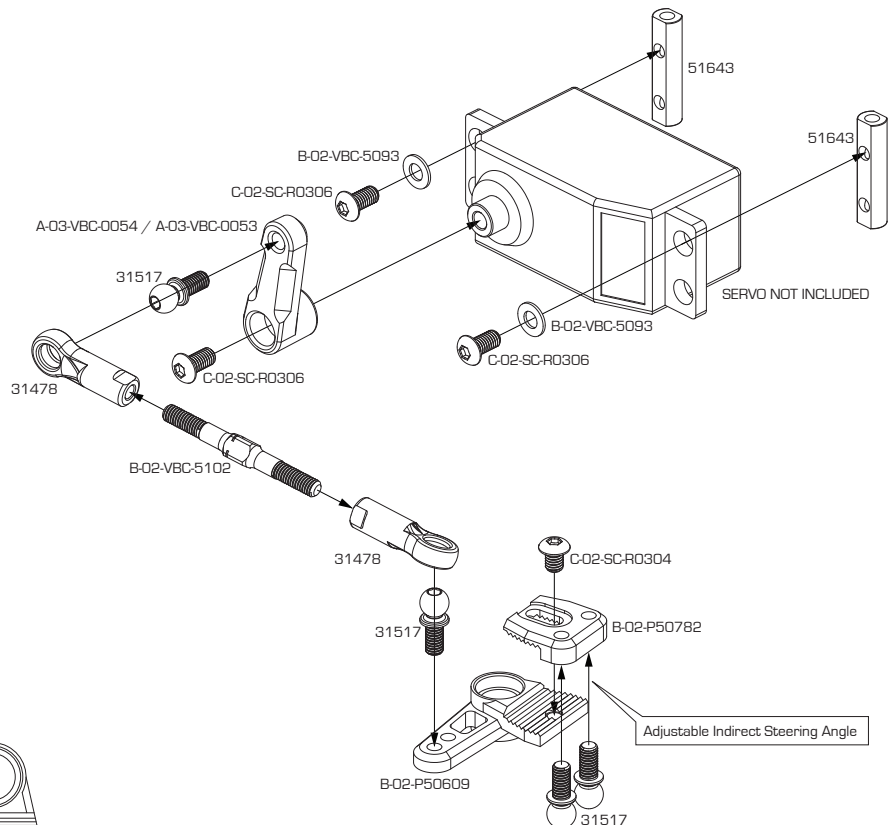
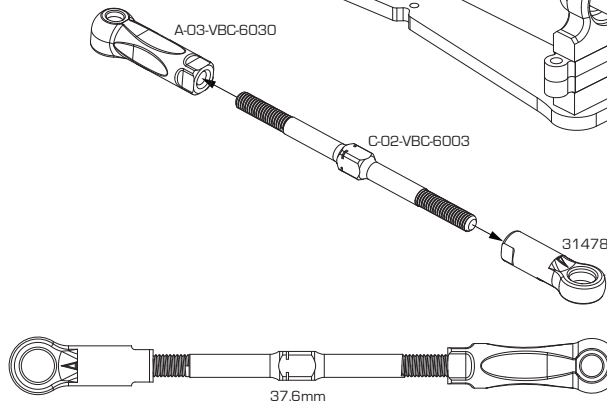
Alum Servo Mount low Profile Servo 51643 x 2

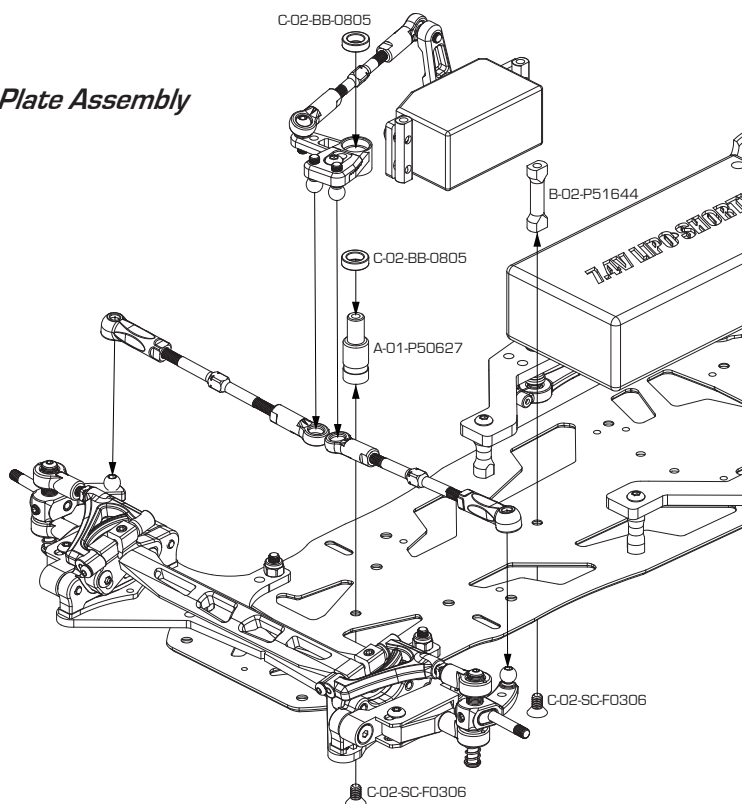


Steering Arm A & B B-02-P50782 x 1

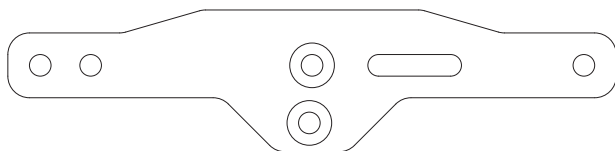


V2 Steering Arm B-02-P50609 x 1

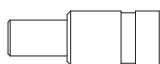


8**Servo And Top Plate Assembly**

5x8 Ball Bearing C-02-BB-0805 x 2



Lightning10X Shock Mount 51719 x 1



Steering Post A-01-P50627 x 1



21mm Aluminium Post 51644 x 1



M3x6 Flathead C-02-SC-F0306 x 2



M3x6 Roundhead C-02-SC-R0306 x 3



Ball Connector B-02-VBC-0045 x 1



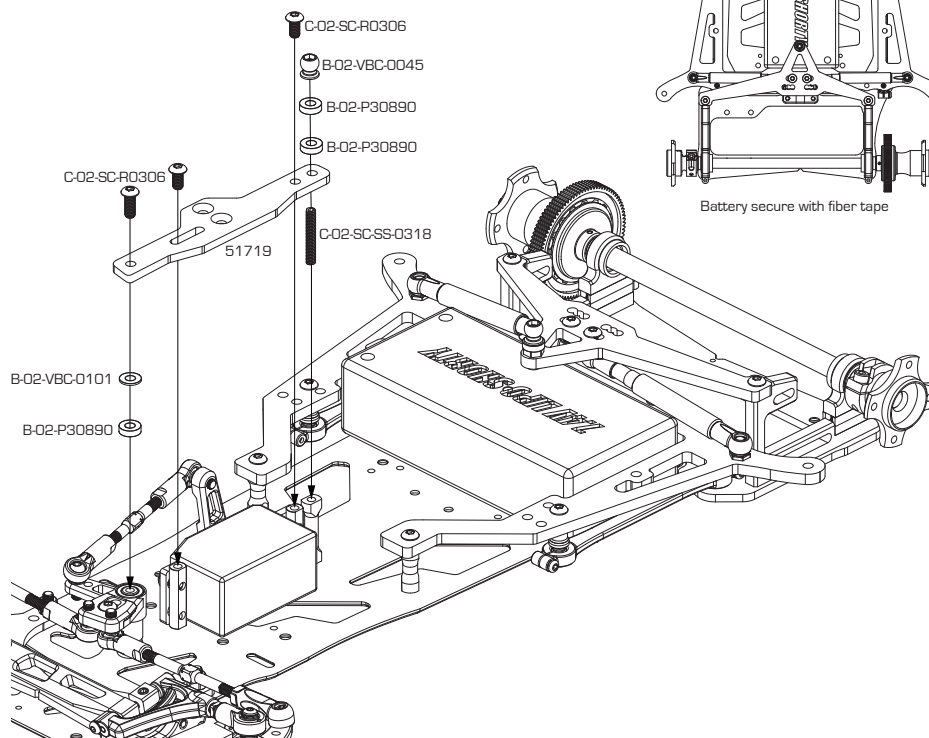
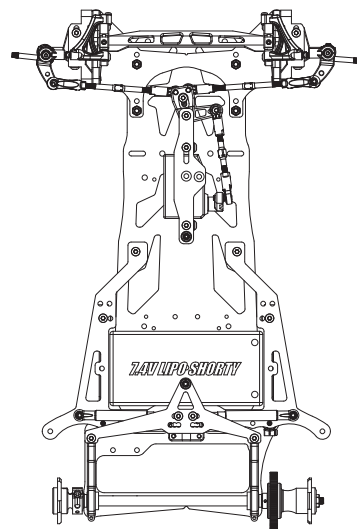
T2 7075 Spacer(RED) B-02-P30890 x 3



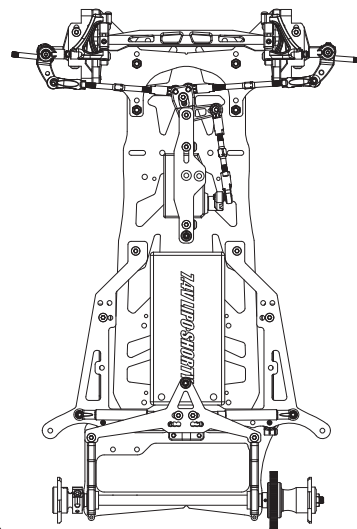
M3x18 Set Screw C-02-SC-SS-0318 x 1



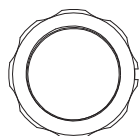
M3 0.3mm Shim B-02-VBC-0101 x 1

**Battery Placement for
Adjusting Weight Distribution**

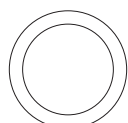
Shorty battery can be configured in transverse or inline setup for adjusting car weight distribution from indirect steering system



Battery secure with fiber tape

9**Shock Assembly**

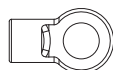
TBB Shock Height Adjuster 31636 x 1



TBB Sealer O-Ring A-03-VBC-0128 x 1



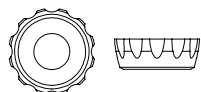
TBB Shock Piston (4holes) A-03-VBC-0138 x 1



TBB Shock Bottom Connector A-03-VBC-0124 x 1



Shock Extender 31617 x 1



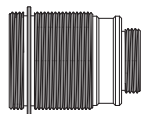
TBBS Bottom Cap 31638 x 1



TBB Shaft Cap B-02-VBC-0125 x 1



TBB Shaft Sealer O-Ring B-03-VBC-0012 x 1



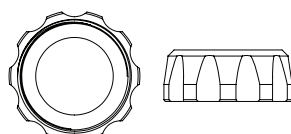
Shock Body 31470 x 1



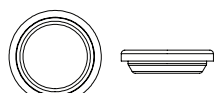
TBB Shock Shaft C-02-G30957 x 1



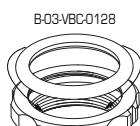
M2 E-Clip B-03-VBC-0129 x 2



TBB Shock Body Cap 31637 x 1



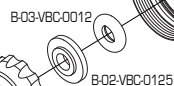
TBB Oil Sealer Cap (Medium Soft) B-03-VBC-0140 x 1



B-02-VBC-0121



A-03-VBC-0138



B-03-VBC-0012



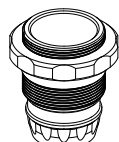
B-02-VBC-0125

31638

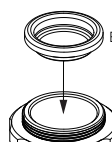
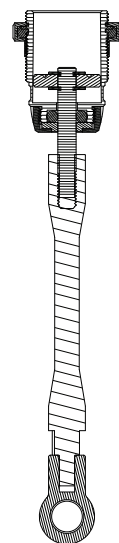
31617



A-03-VBC-0124

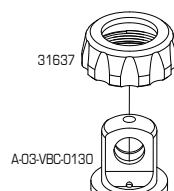
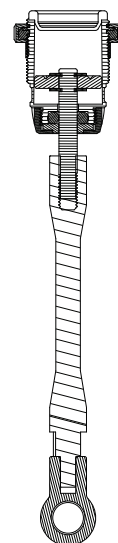


Fill supplied shock oil
and remove air by
moving the piston up
and down until air
bubbles disappears



B-03-VBC-0140

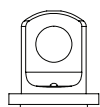
When placing Oil
Sealer Cap make
sure no bubbles
are trap inside the
shock body



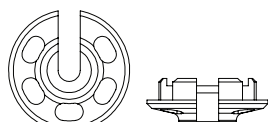
31637

A-03-VBC-0130

A-03-VBC-0130



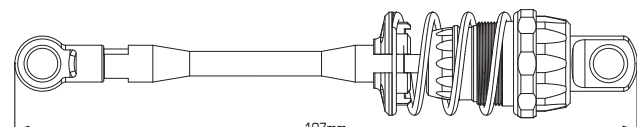
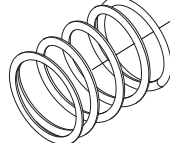
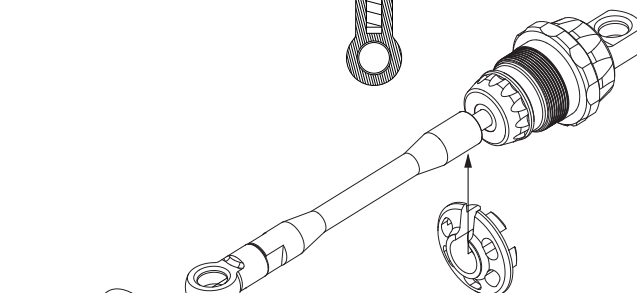
TBB Shock Top Connector A-03-VBC-0130 x 1



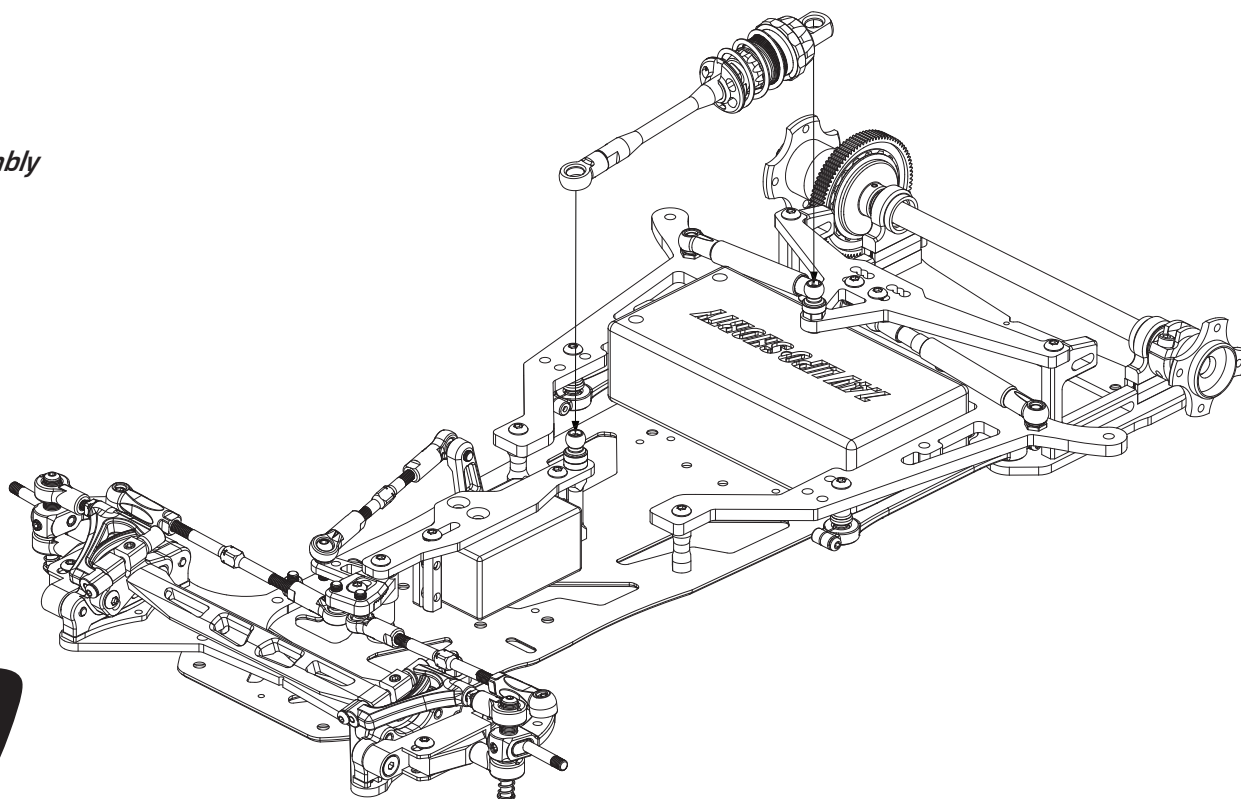
TBB Spring Bottom Support A-03-VBC-0131 x 1



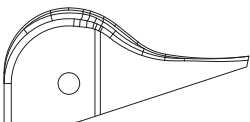
TBB Shock Spring (Red-Medium Soft) B-02-VBC-0134



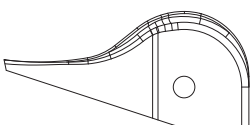
107mm

9**Shock Assembly****10****Front Bumper Assembly**

M3 Locknut C-02-SC-NN03 x 2



Plastic Front Bumper, Left A-02-VBC-5070 x 1



Plastic Front Bumper, Right A-02-VBC-5071 x 1



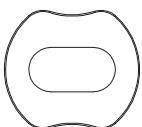
M3x10mm Flat Head Screw C-02-SC-F0310 x 2



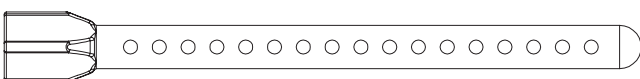
M3x8mm Flat Head Screw C-02-SC-F0308 x 2



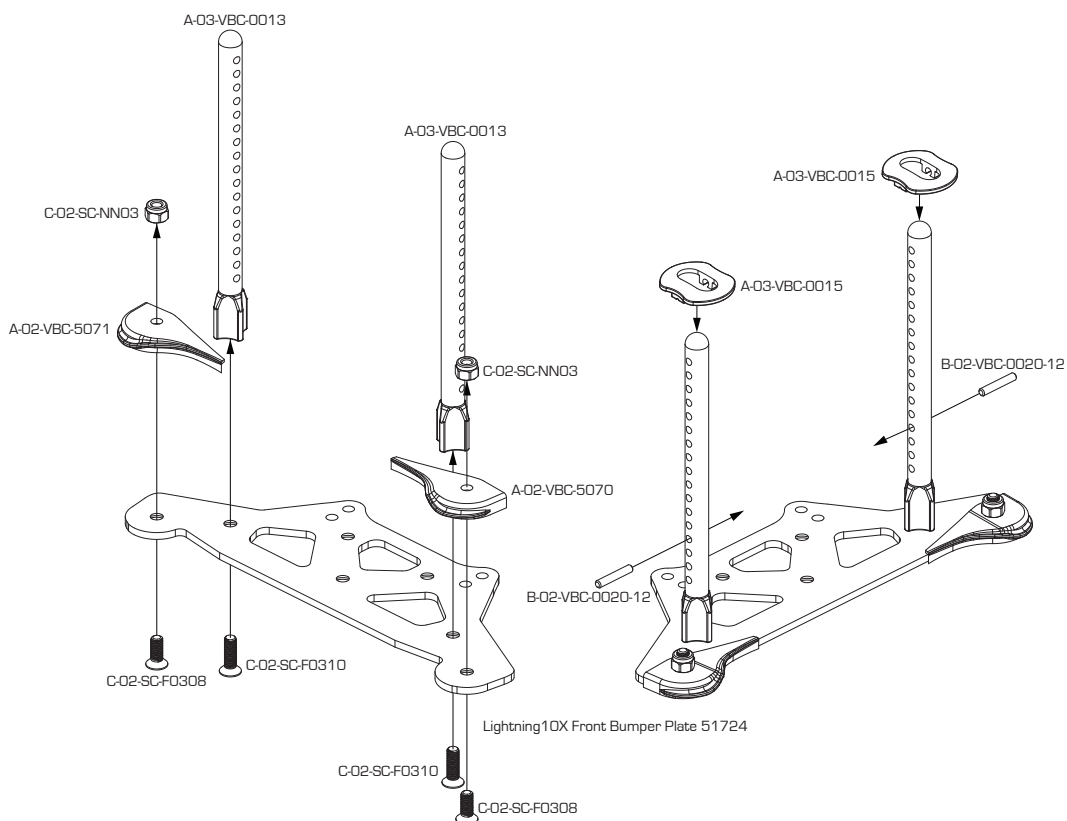
M2x12 Shaft Pin B-02-VBC-0020-12 x 2



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



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

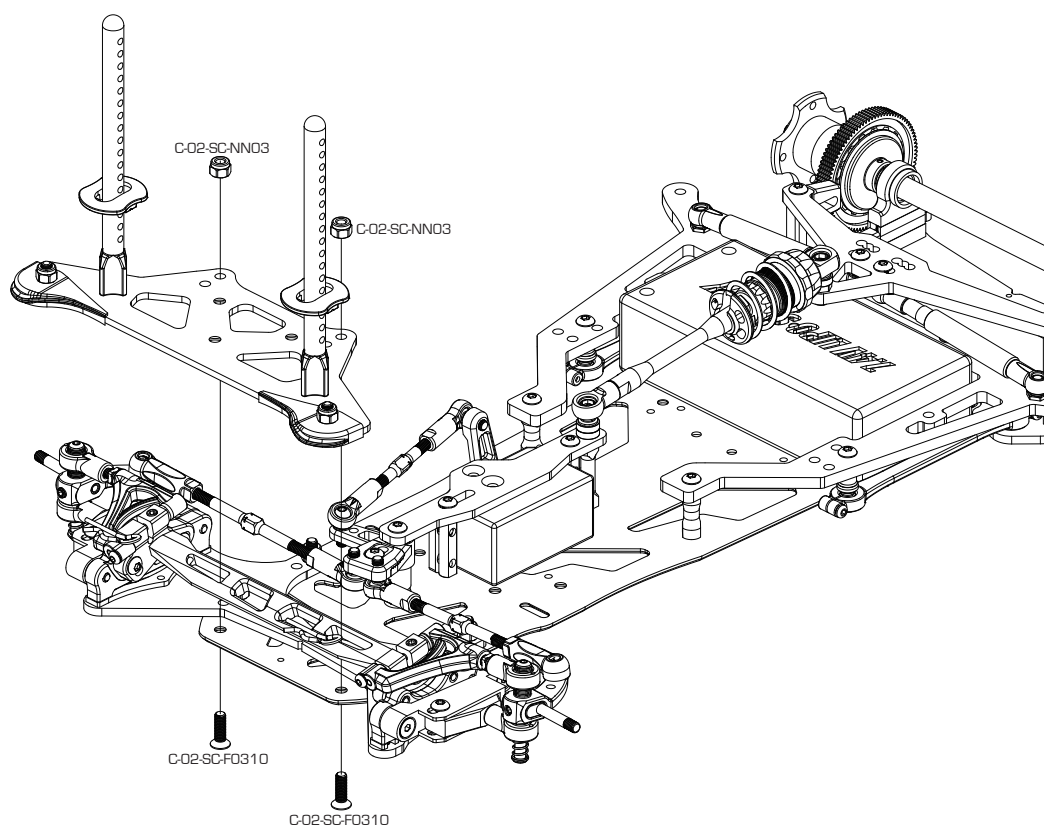
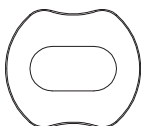


11**Installing Front Bumper**

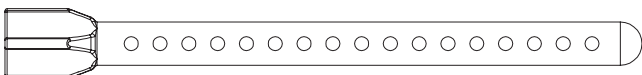
M3 Locknut C-02-SC-NN03 x 2



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

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

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



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



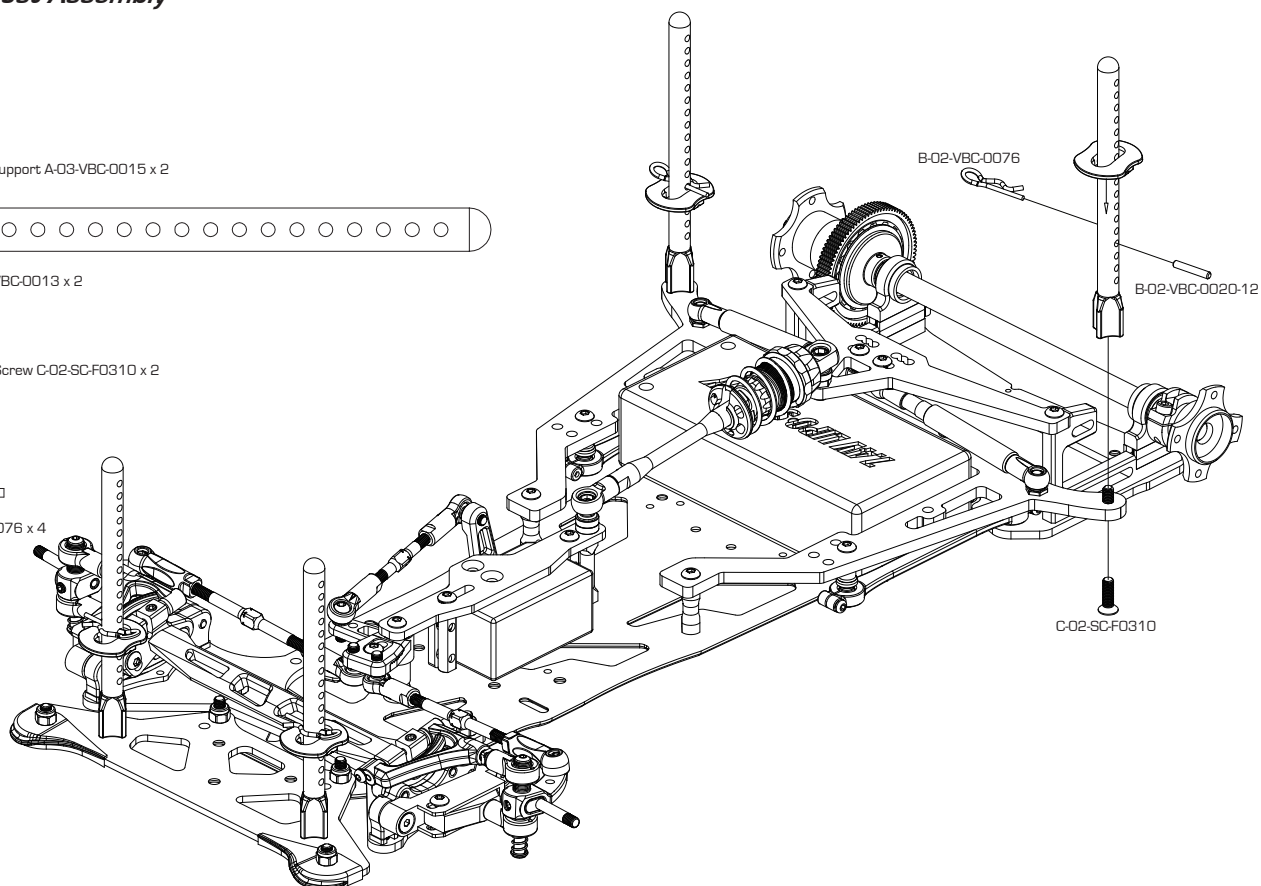
M3x10mm Flat Head Screw C-02-SC-F0310 x 2



B-02-VBC-0020-12 x 2

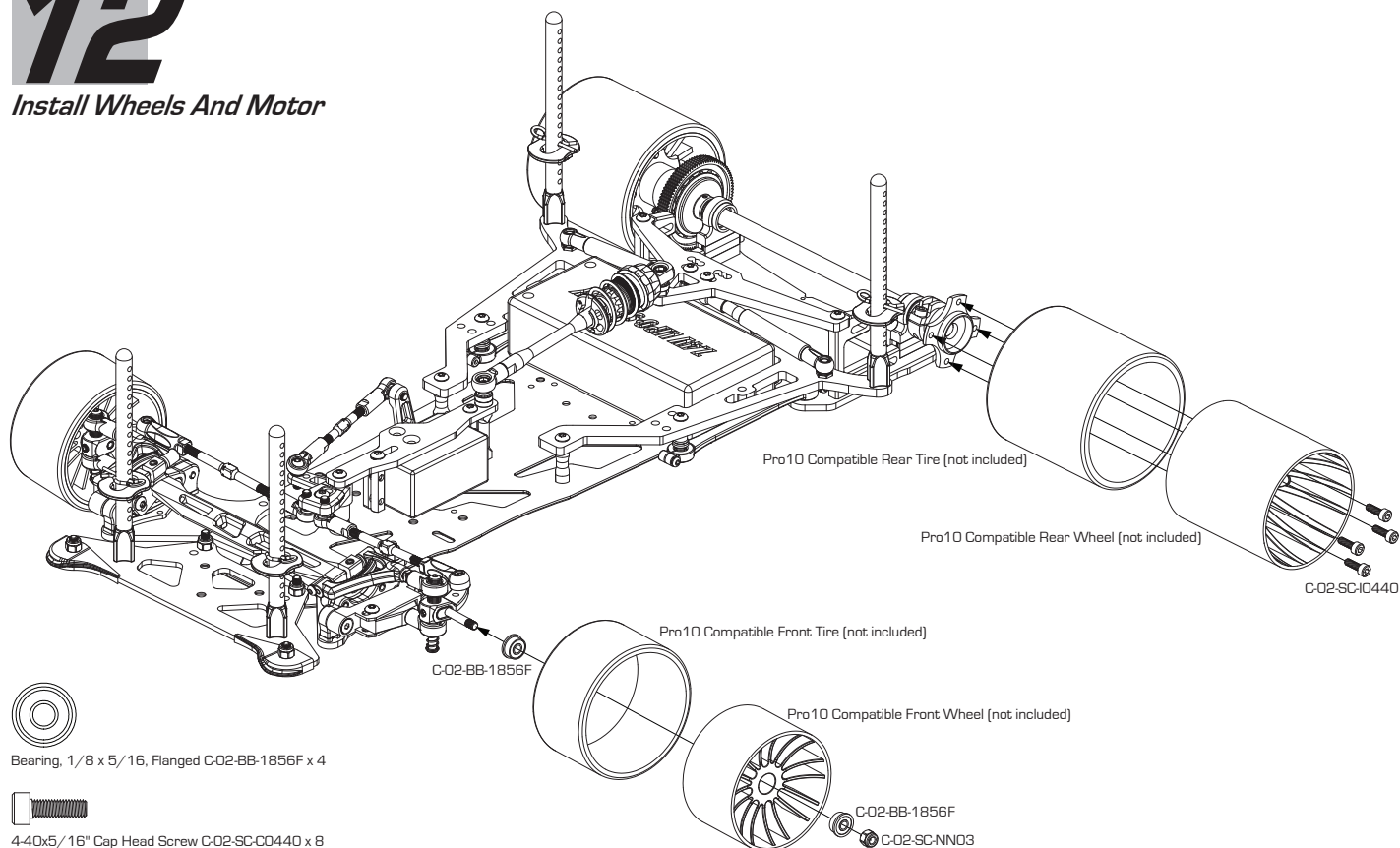


Body Clips B-02-VBC-0076 x 4



12

Install Wheels And Motor



Bearing, 1/8 x 5/16, Flanged C-02-BB-1856F x 4



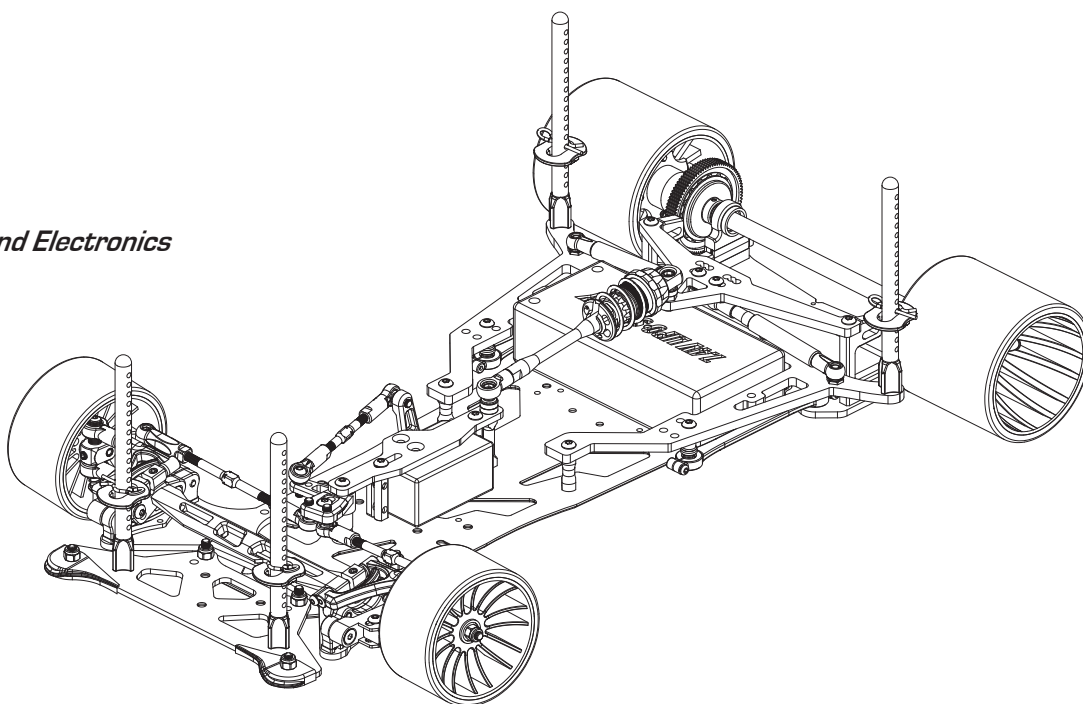
4-40x5/16" Cap Head Screw C-02-SC-C0440 x 8



M3 Locknut C-02-SC-NN03 x 2

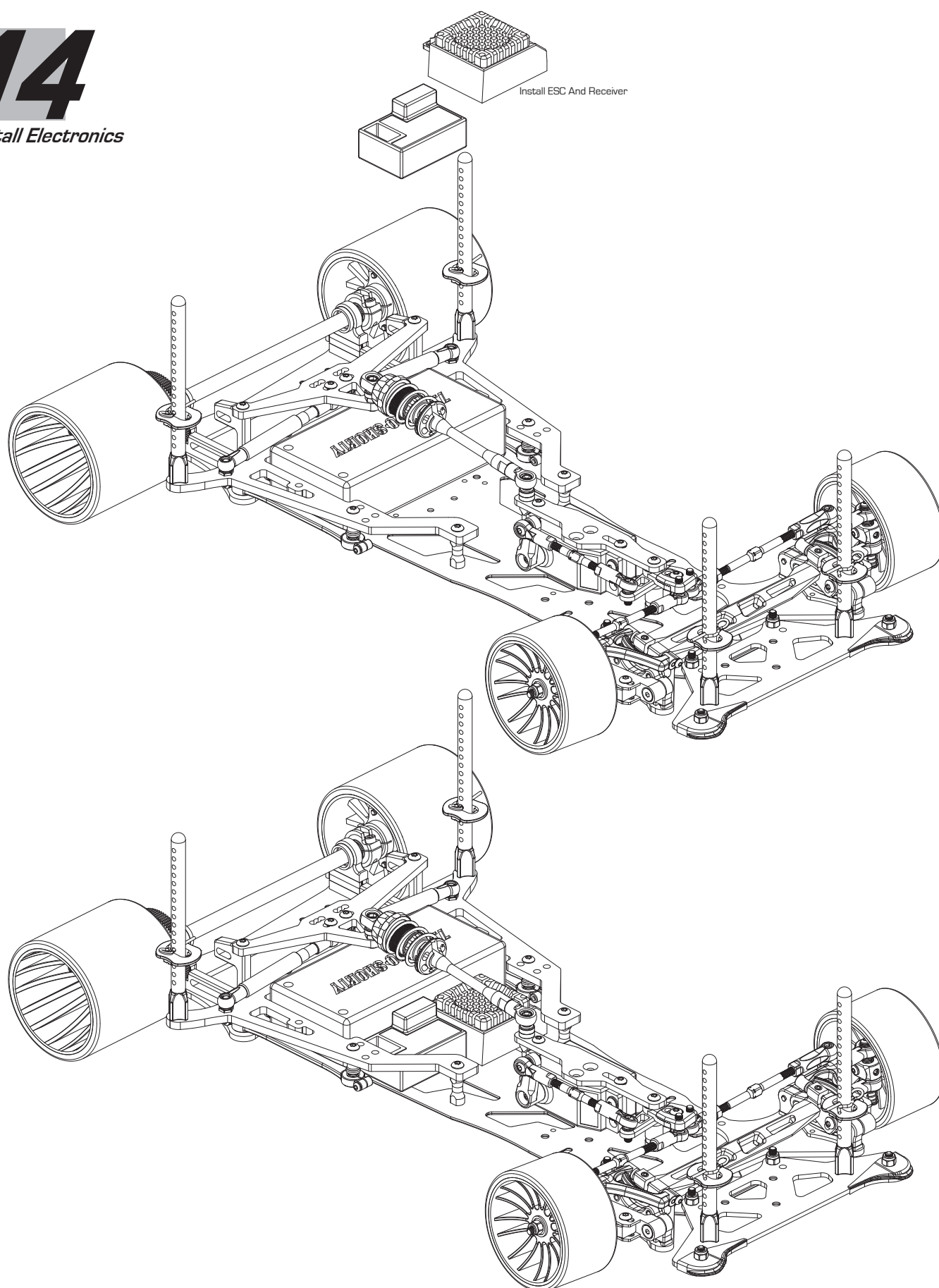
13

Install Motor And Electronics



14

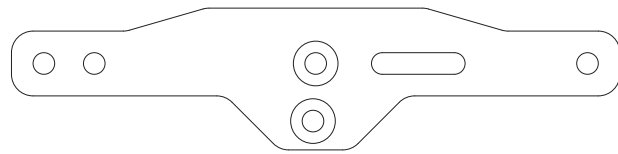
Install Electronics



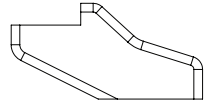
Optional Settings



Short Shock Setting Layout



Lightning10X Shock Mount 51719 x 1



98mm Mount Stand 51721 x 2



M3x8mm Flathead Screw C-02-SC-F0308 x 1



M3x6mm Roundhead Screw C-02-SC-R0306 x 5



M3x8mm Roundhead Screw C-02-SC-R0308 x 4



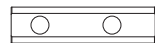
Ball Connector B-02-VBC-0045 x 1



T2 7075 Spacer(Red) B-02-P30890 x 1



M3x6mm Flathead Screw C-02-SC-F0306 x 2



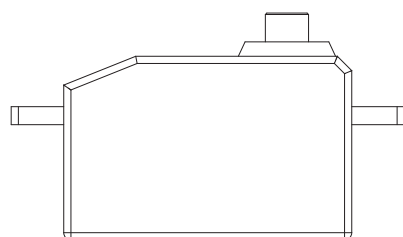
B02P51643 x 2



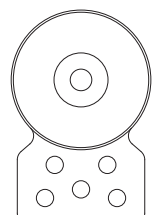
SERVER_SPACER_2MM



C-02-SC-WS-0308_3X6X0_5 x 2



LOW_PROFILE_SERVO x 1



B-03-VBC-5017_A x 1



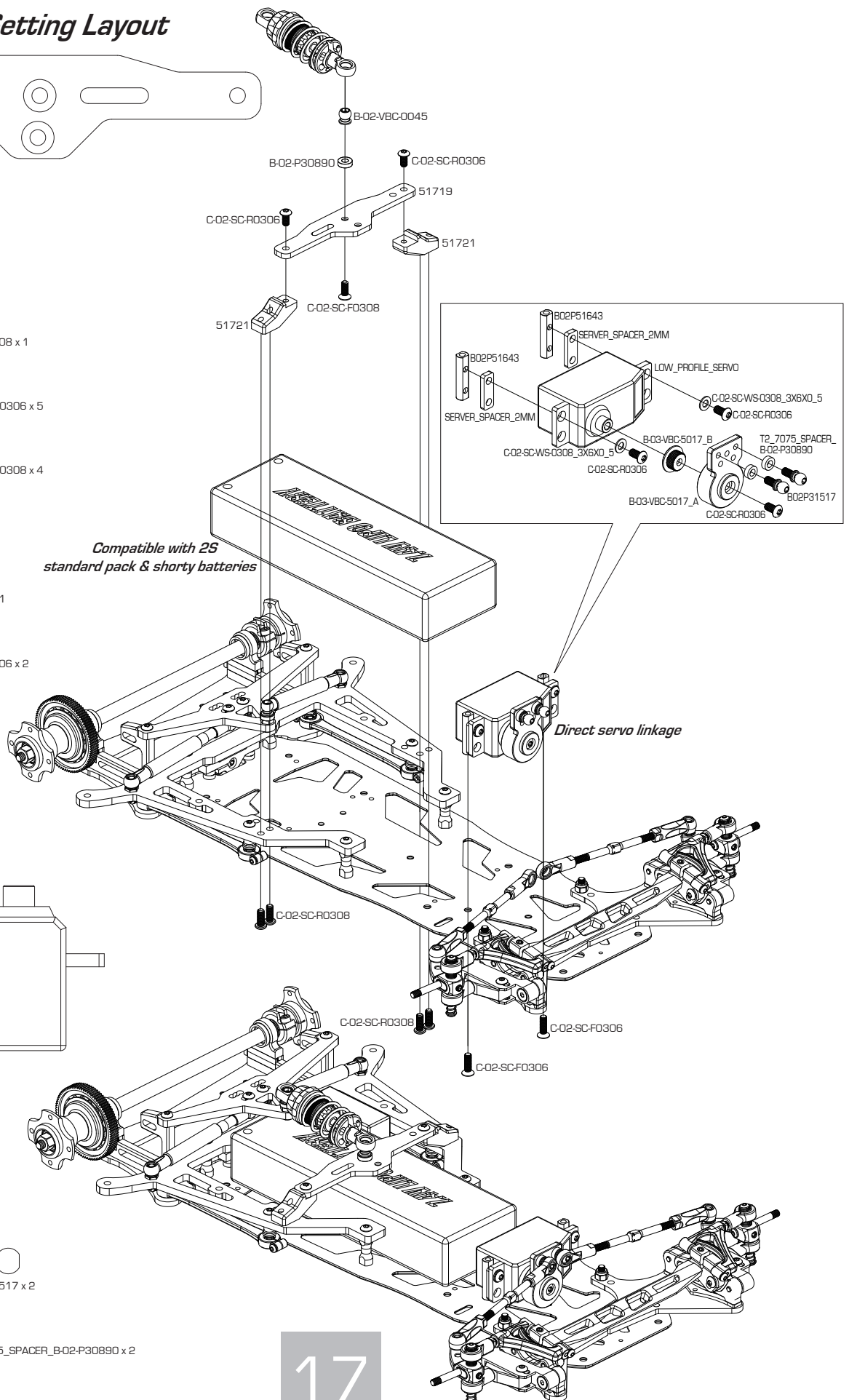
B-03-VBC-5017_B x 1



B02P31517 x 2



T2_7075_SPACER_B-02-P30890 x 2





COMPETITION GRADE HIGH PERFORMANCE RADIO CONTROL RACING CAR CHASSIS KIT



1/10 SCALE ELECTRIC COMPETITION PAN CAR KIT

Instruction Book 51760 VBC Racing Lightning10X235 1/10 Pan Car Kit D-05-VBC-CK35