

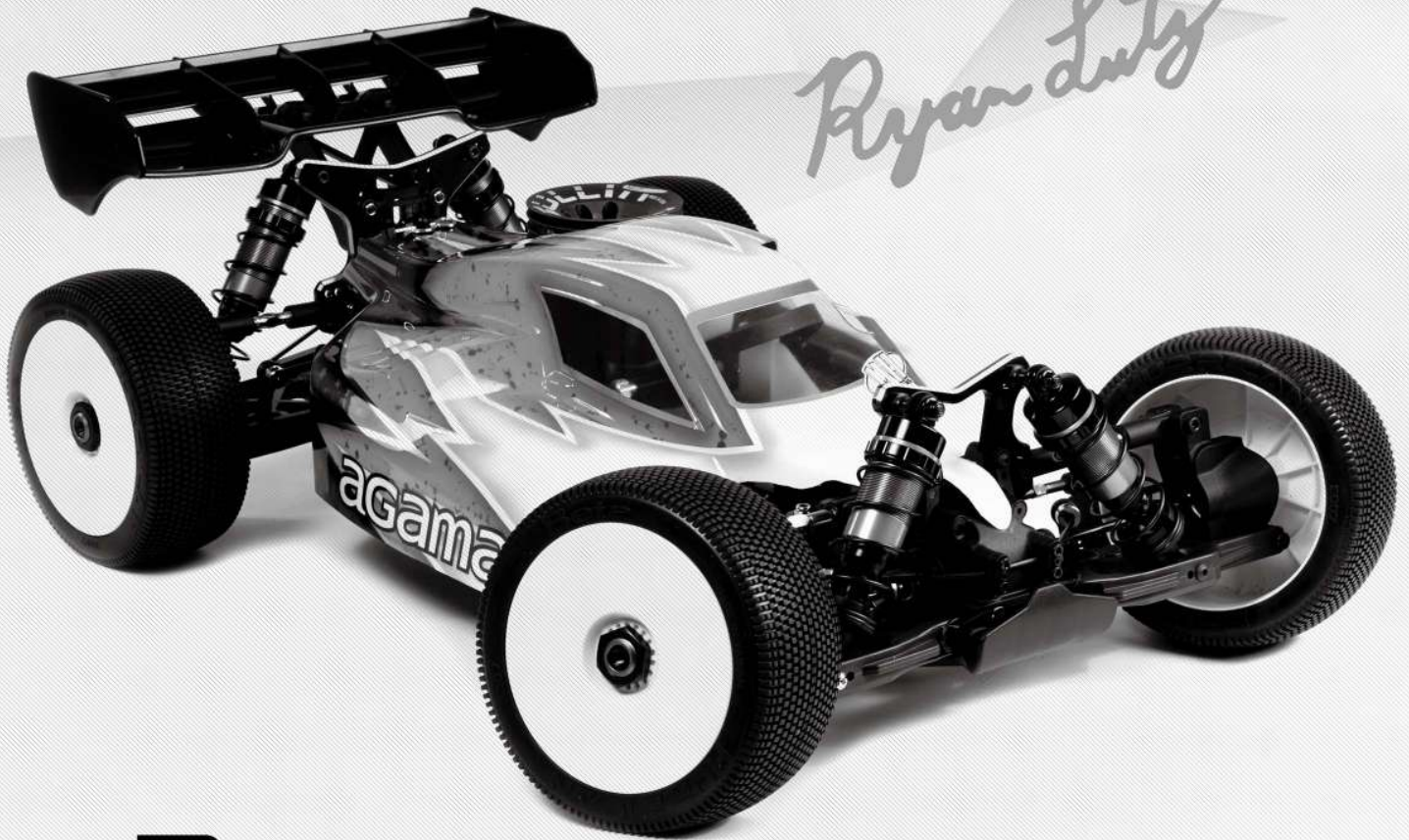


www.agama-rc.com

A319

**1/8 SCALE 4WD NITRO
OFFROAD BUGGY**

Ryan Lutz



GEN 3 PRO KIT

Instruction Manual

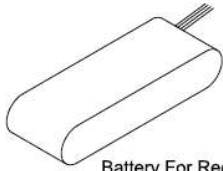
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Agama products are designed with quality and precision in mind.

Made in Taiwan

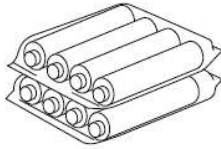
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Notice: The following items are needed for completion of the PRO KIT, They are not included with this kit (unless noted), and should be obtained from your local hobby shop.
Be sure to read the instructions completely prior to assembly.

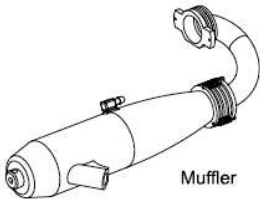
ADDITIONAL ITEMS NEEDED FOR COMPLETION



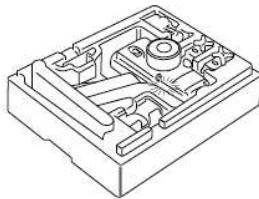
Battery For Receiver
68x37x20mm



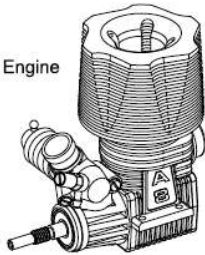
Battery For Transmitter



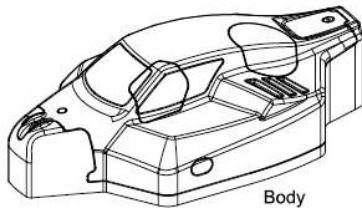
Muffler



2 Channel Radio

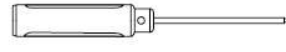


Engine

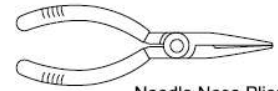


Body

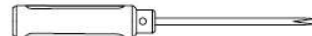
TOOLS NEEDED TO ASSEMBLE



Hex Wrenches



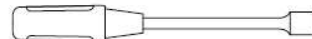
Needle Nose Pliers



Phillips Type Screw Driver



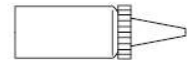
Scissors



Box Wrench (5.5mm / 7mm / 10mm)



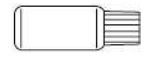
Hobby Knife



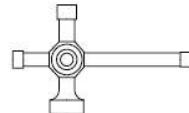
Instant Glue



Pliers



Thread Locker



Utility Wrench



Glass or Vinyl Tape



Rubber Glue

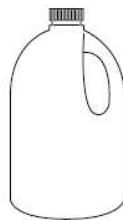
ADDITIONAL ITEMS NEEDED FOR STARTING



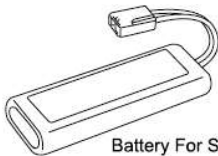
Air Filter Oil



Fuel bottle



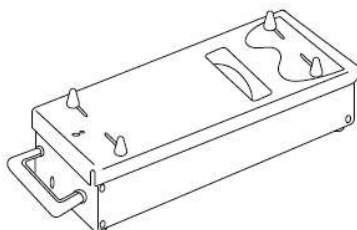
Fuel



Battery For Starter Box

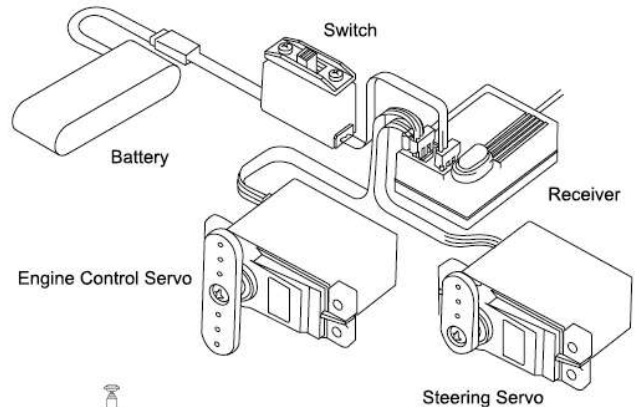


Glow Plug Ignitor



Starter Box

ITEMS NEEDED TO CONTROL CAR



Battery

Switch

Receiver

Engine Control Servo

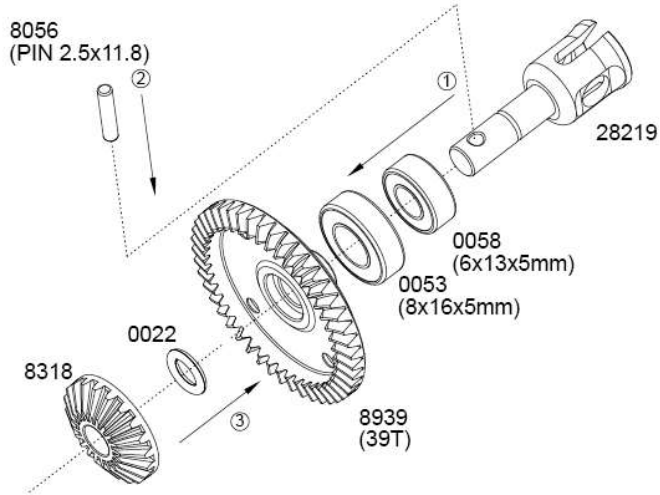
Steering Servo



Transmitter

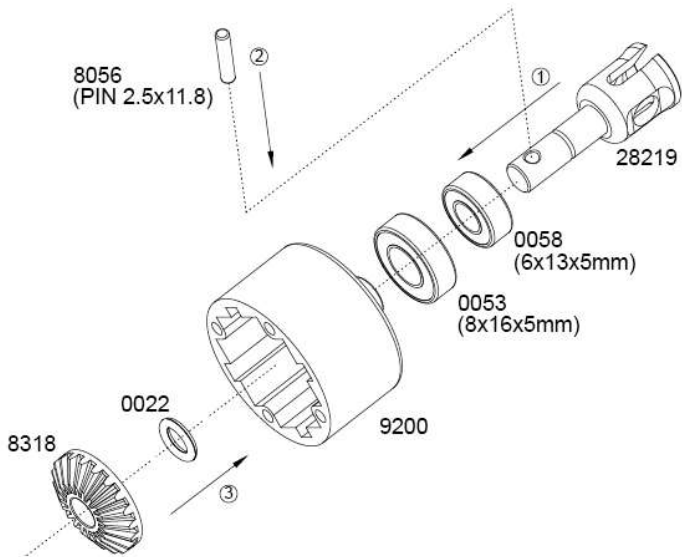
STEP A - 1

Front Diff Ring Gear Assembly



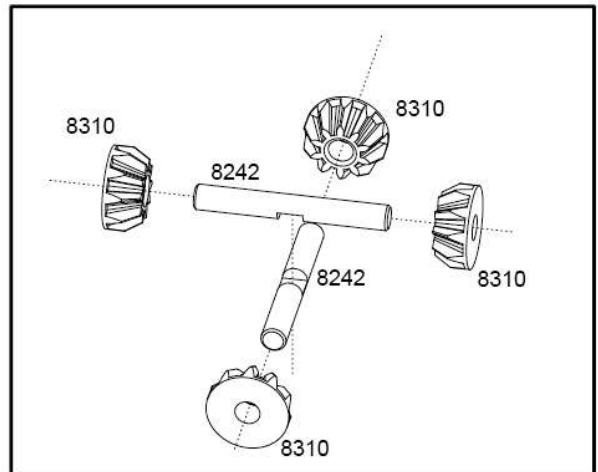
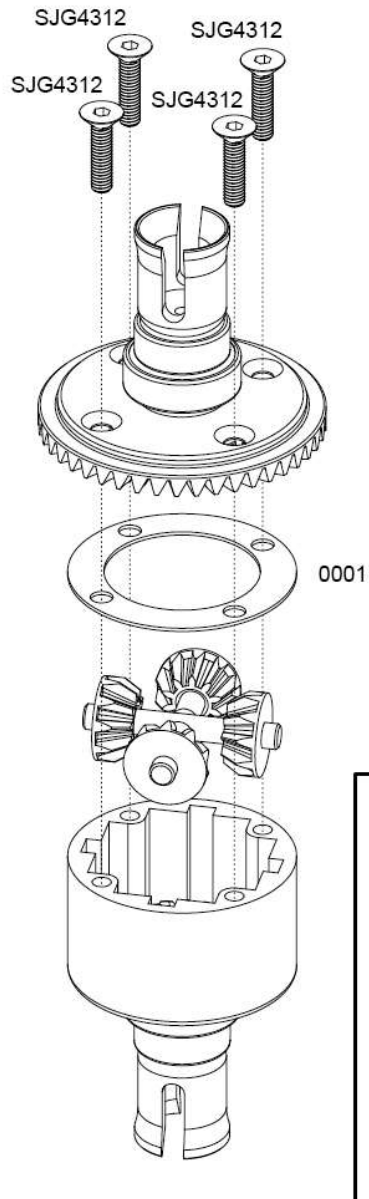
STEP A - 2

Front Diff Case Assembly



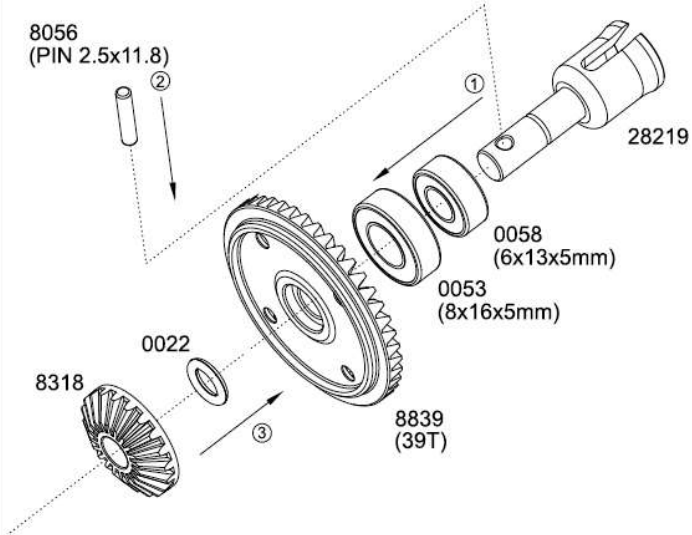
STEP A - 3

Complete Front Diff Assembly



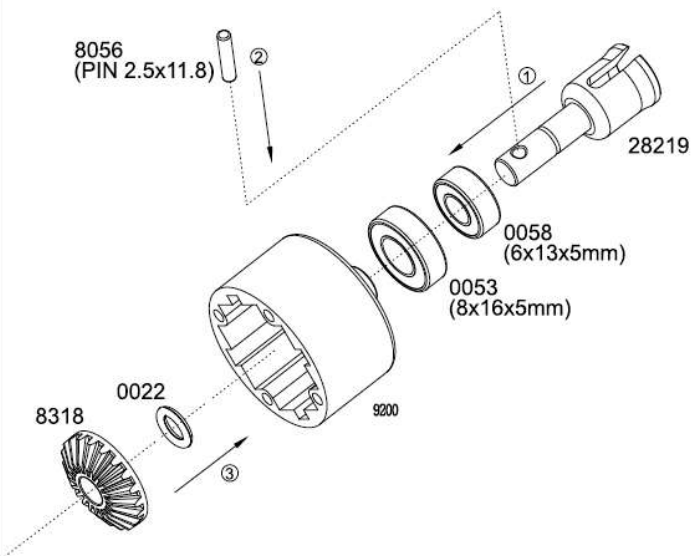
STEP A - 4

Rear Diff Ring Gear Assembly



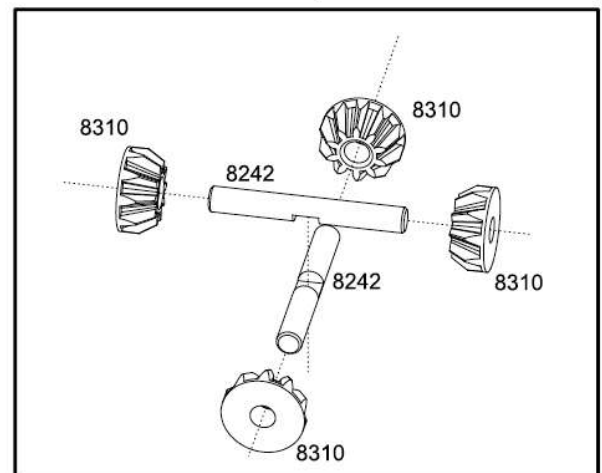
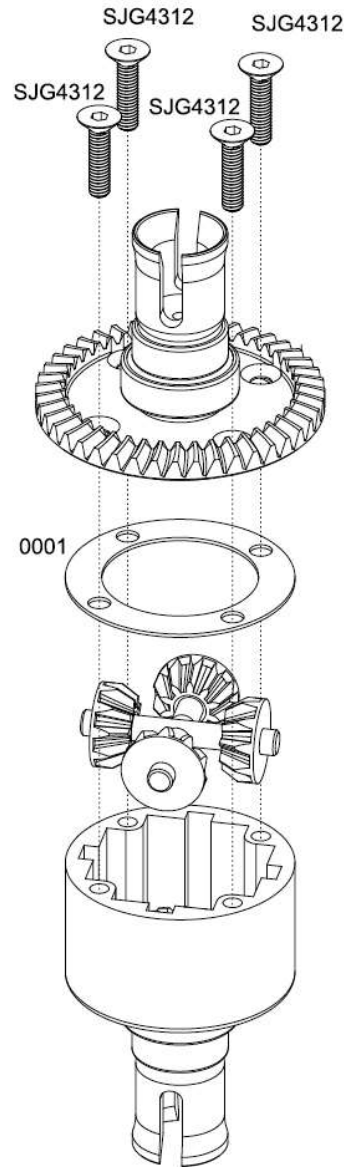
STEP A - 5

Rear Diff Case Assembly



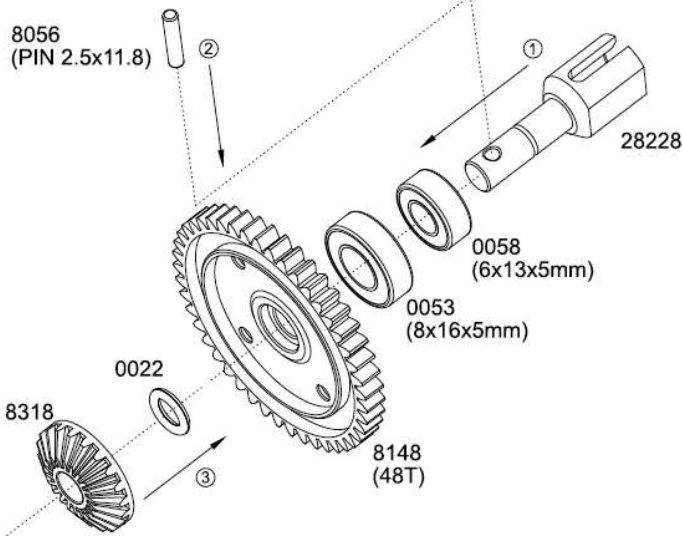
STEP A - 6

Complete Rear Diff Assembly



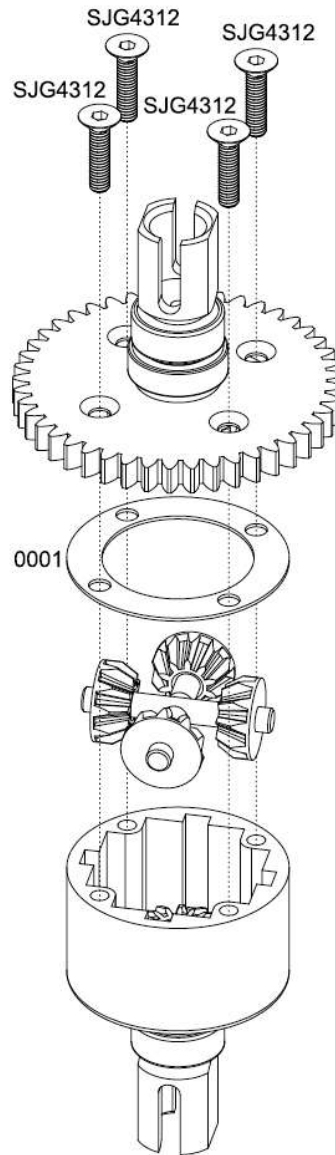
STEP A - 7

Center Diff Ring Gear Assembly



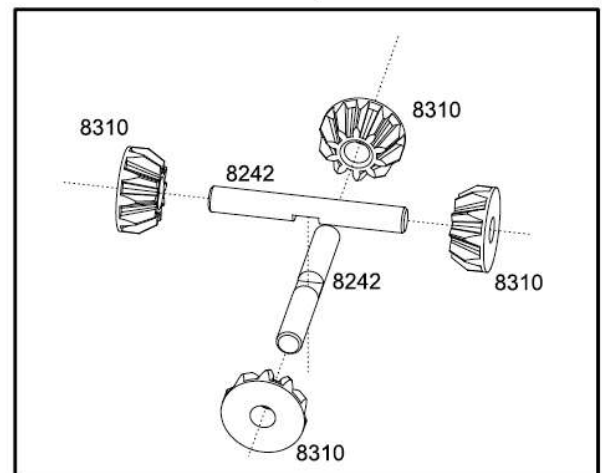
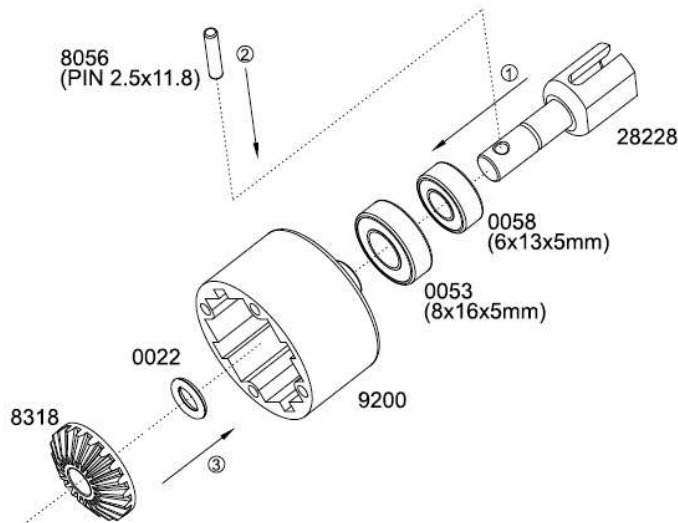
STEP A - 9

Complete Center Diff Assembly



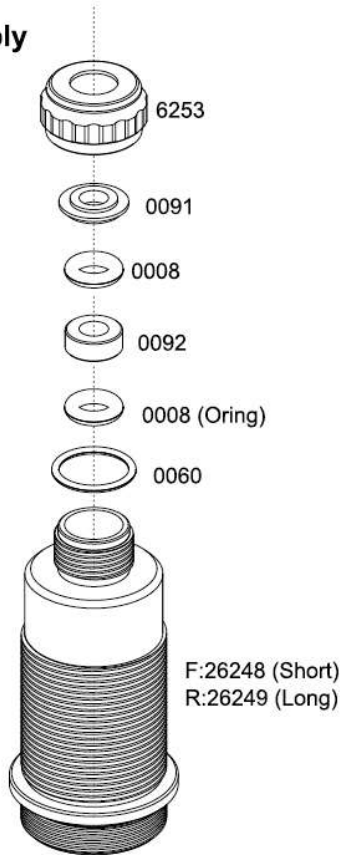
STEP A - 8

Center Diff Case Assembly



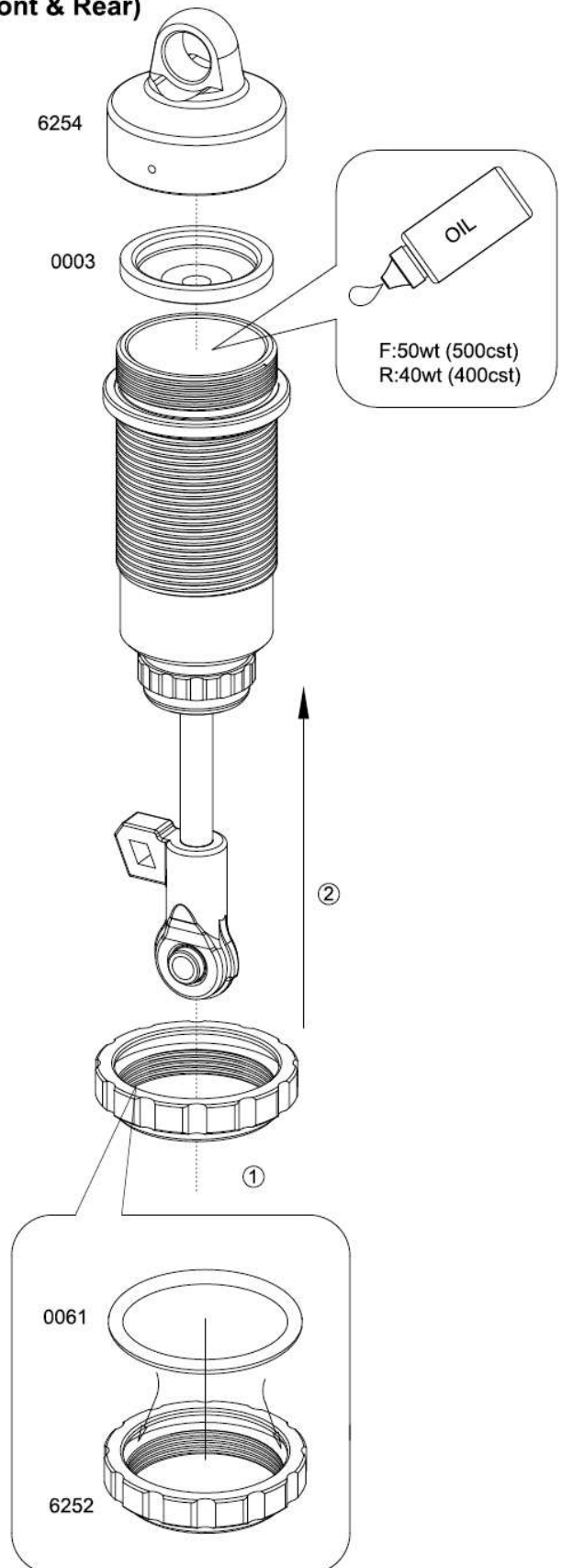
STEP B - 1

Shock Assembly (Front & Rear)



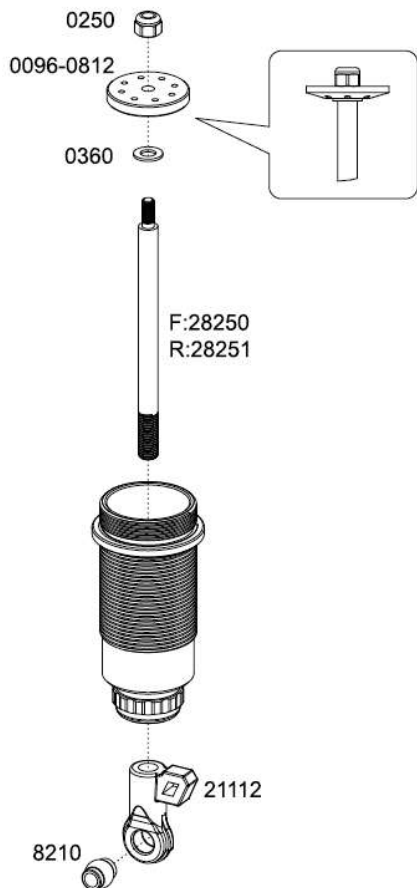
STEP B - 3

Shock Assembly (Front & Rear)



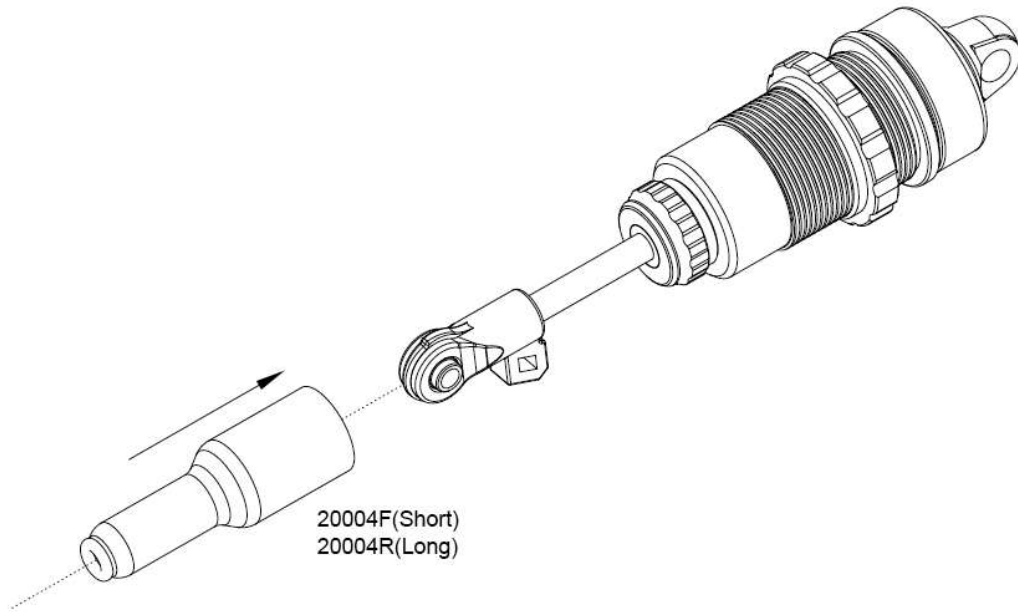
STEP B - 2

Shock Assembly (Front & Rear)



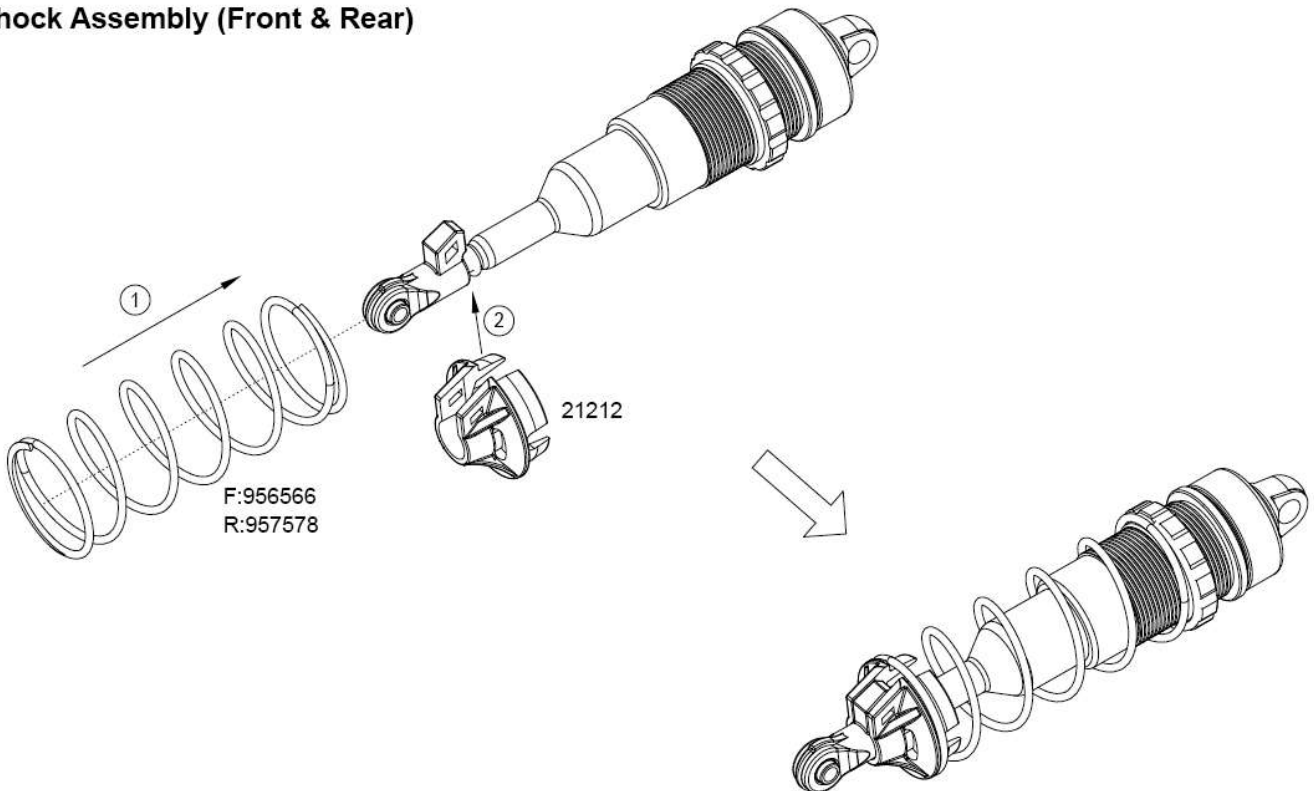
STEP B - 4

Shock Assembly (Front & Rear)



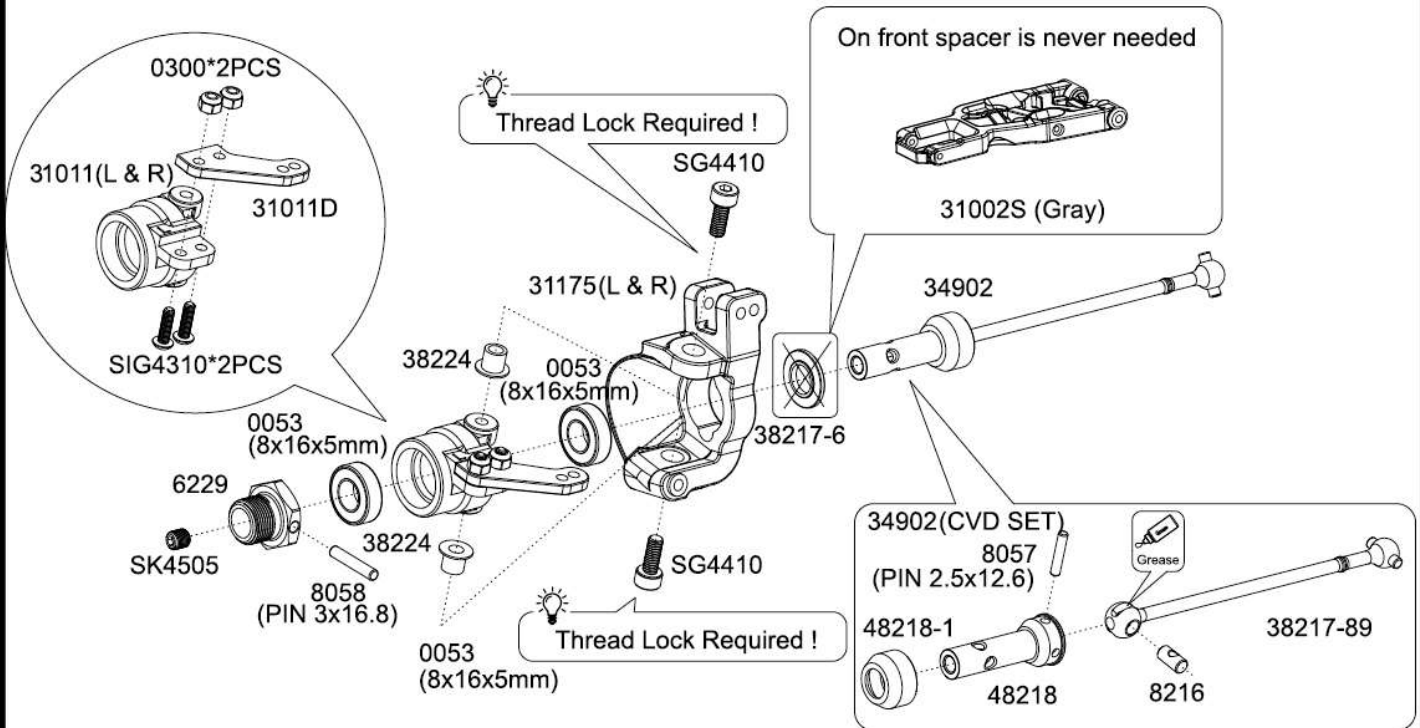
STEP B - 5

Shock Assembly (Front & Rear)



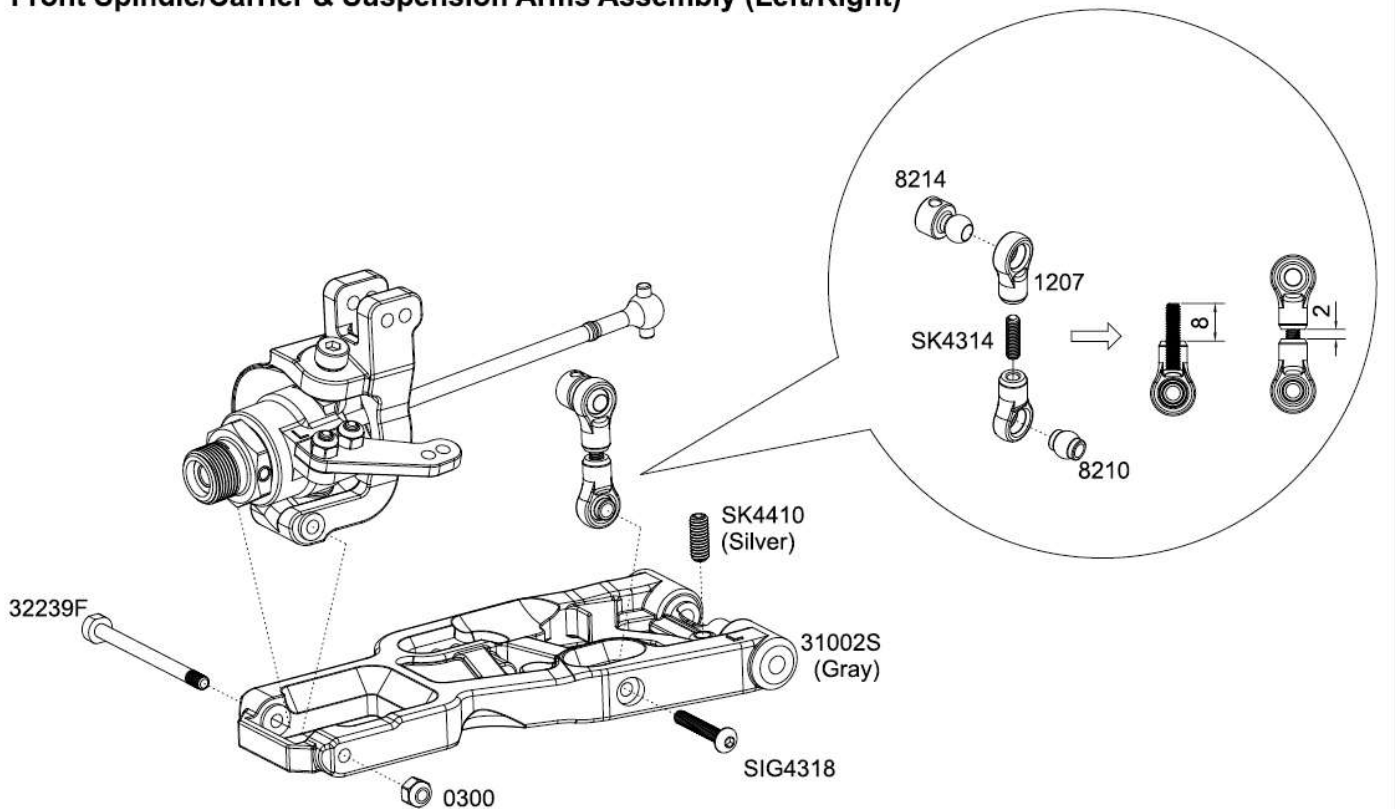
STEP C-1

Front Spindle & CVD Assembly (Left/Right)



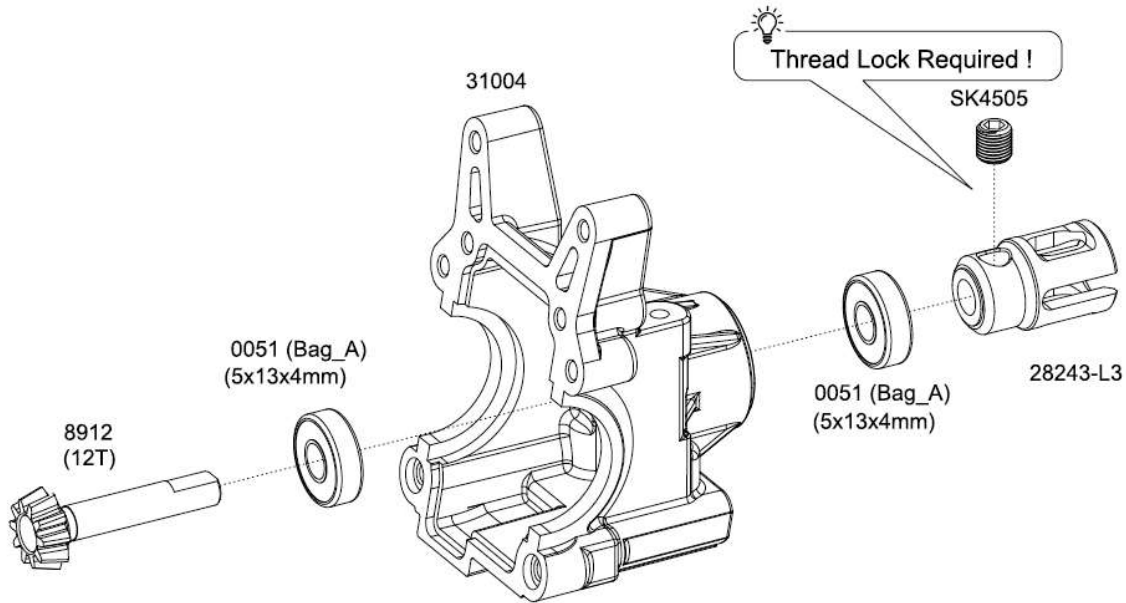
STEP C-2

Front Spindle/Carrier & Suspension Arms Assembly (Left/Right)



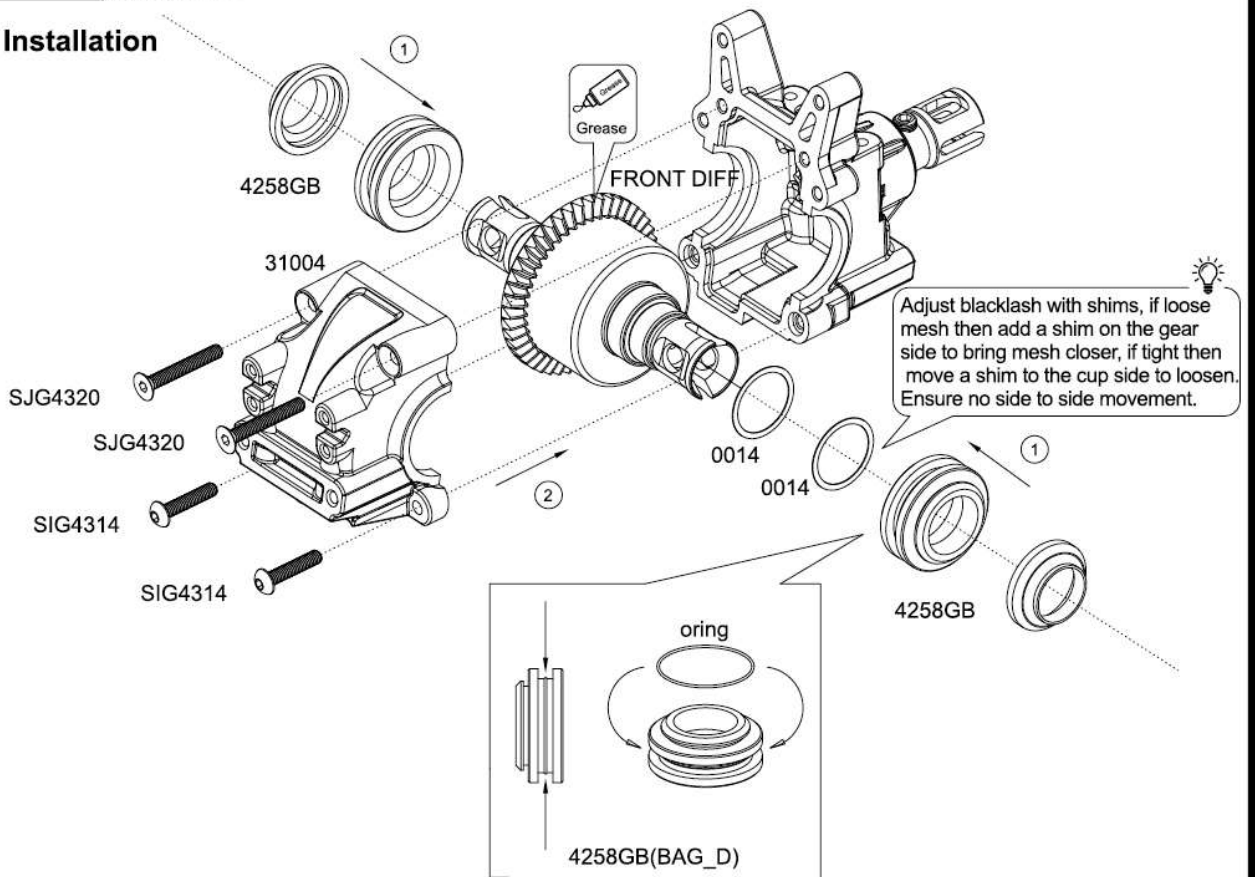
STEP D - 1

Front Diff Case Assembly



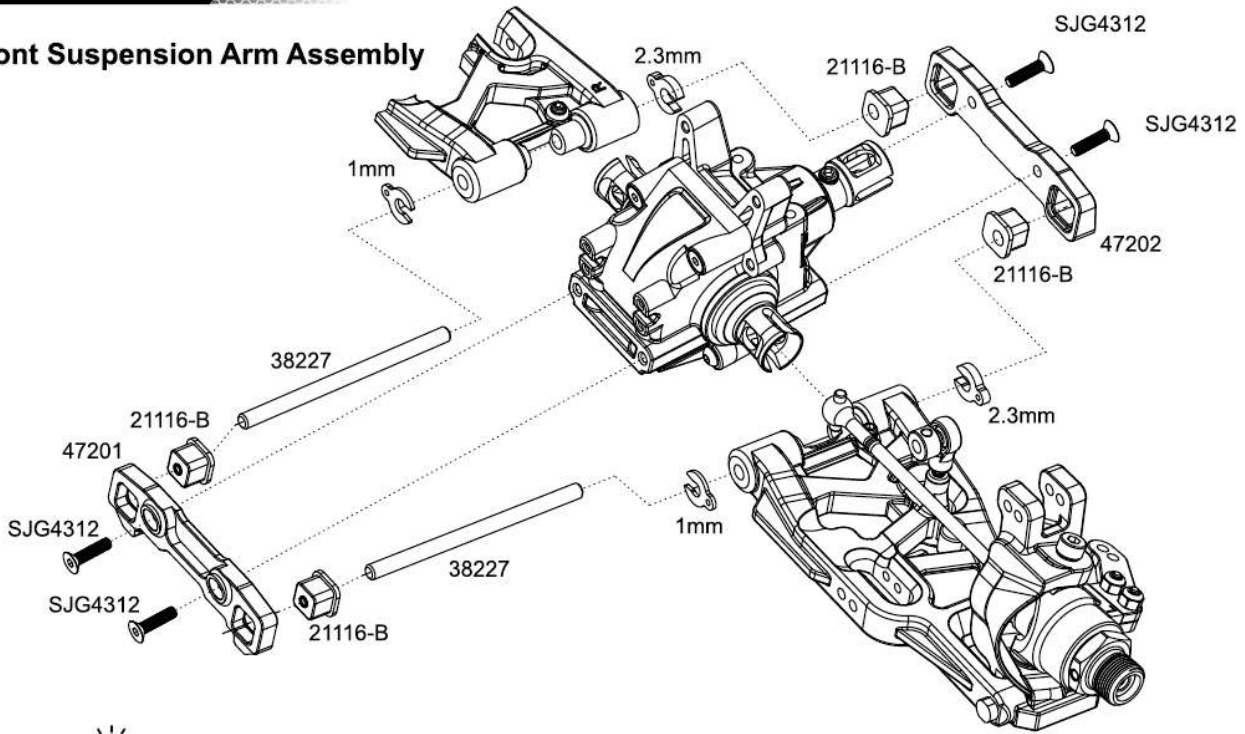
STEP D - 2

Front Diff Installation

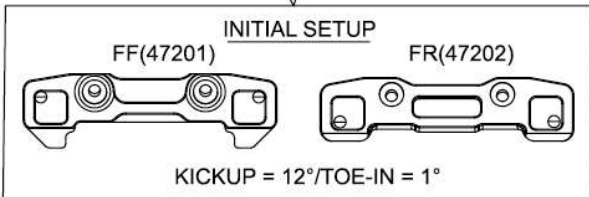


STEP D - 3

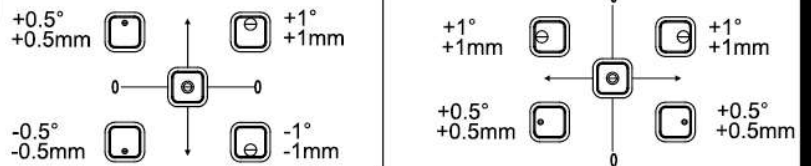
Front Suspension Arm Assembly



Please as per setup sheet

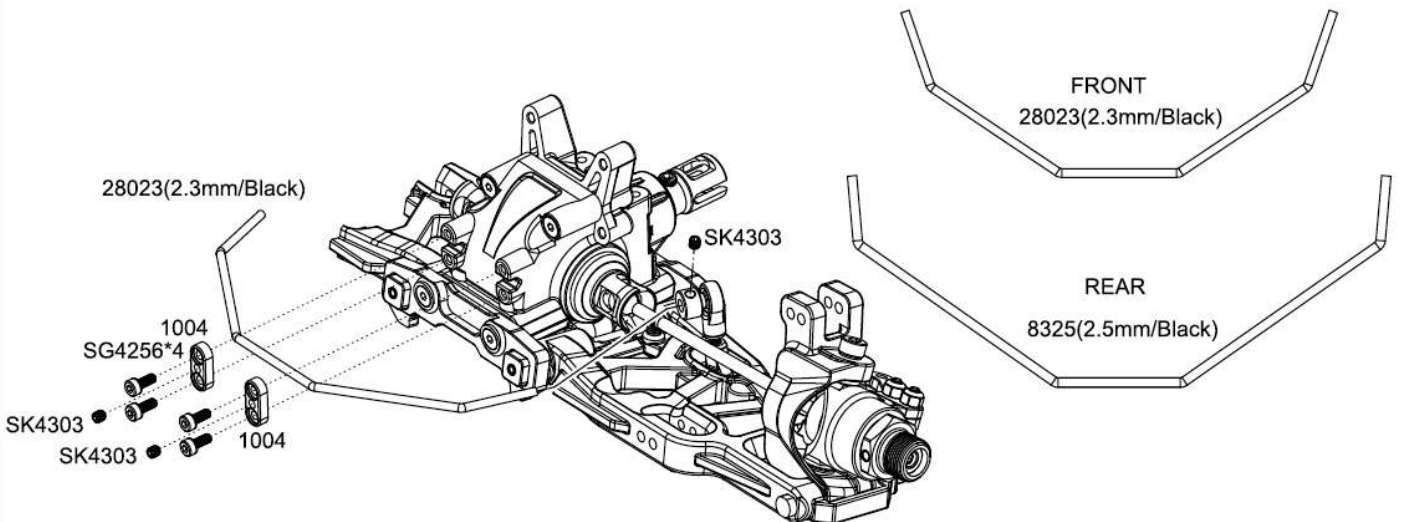


SUSPENSION BUSHINGS CHART



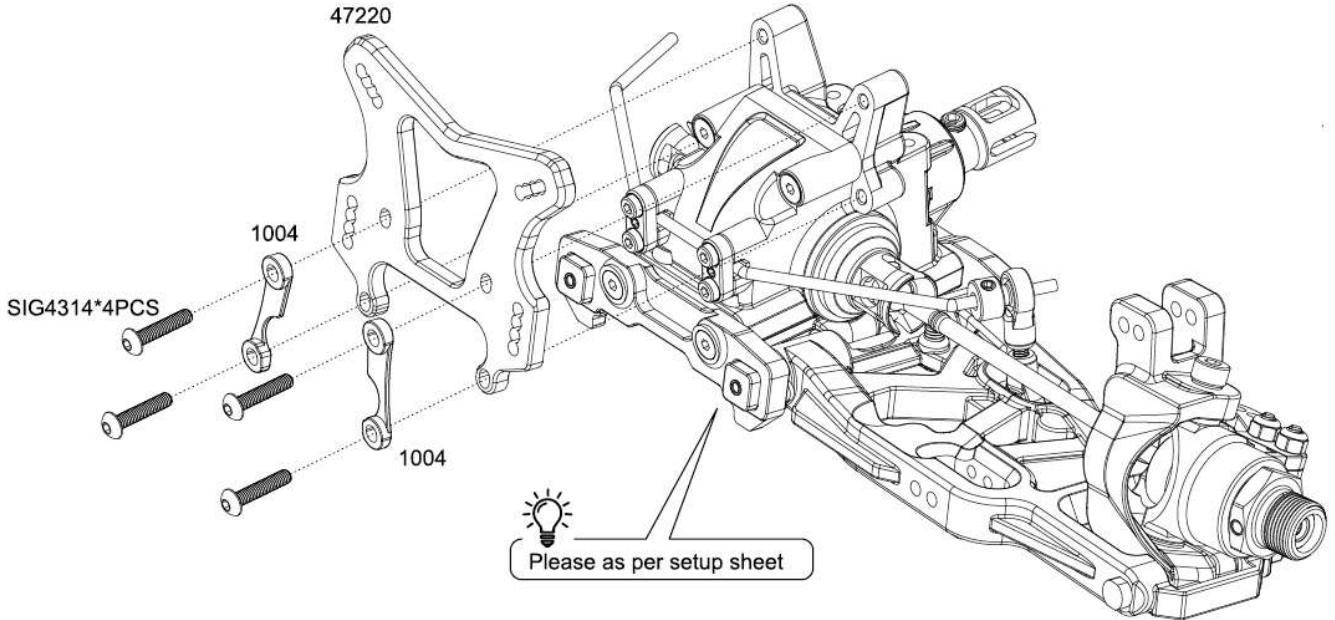
STEP D - 4

Front Swaybar Assembly



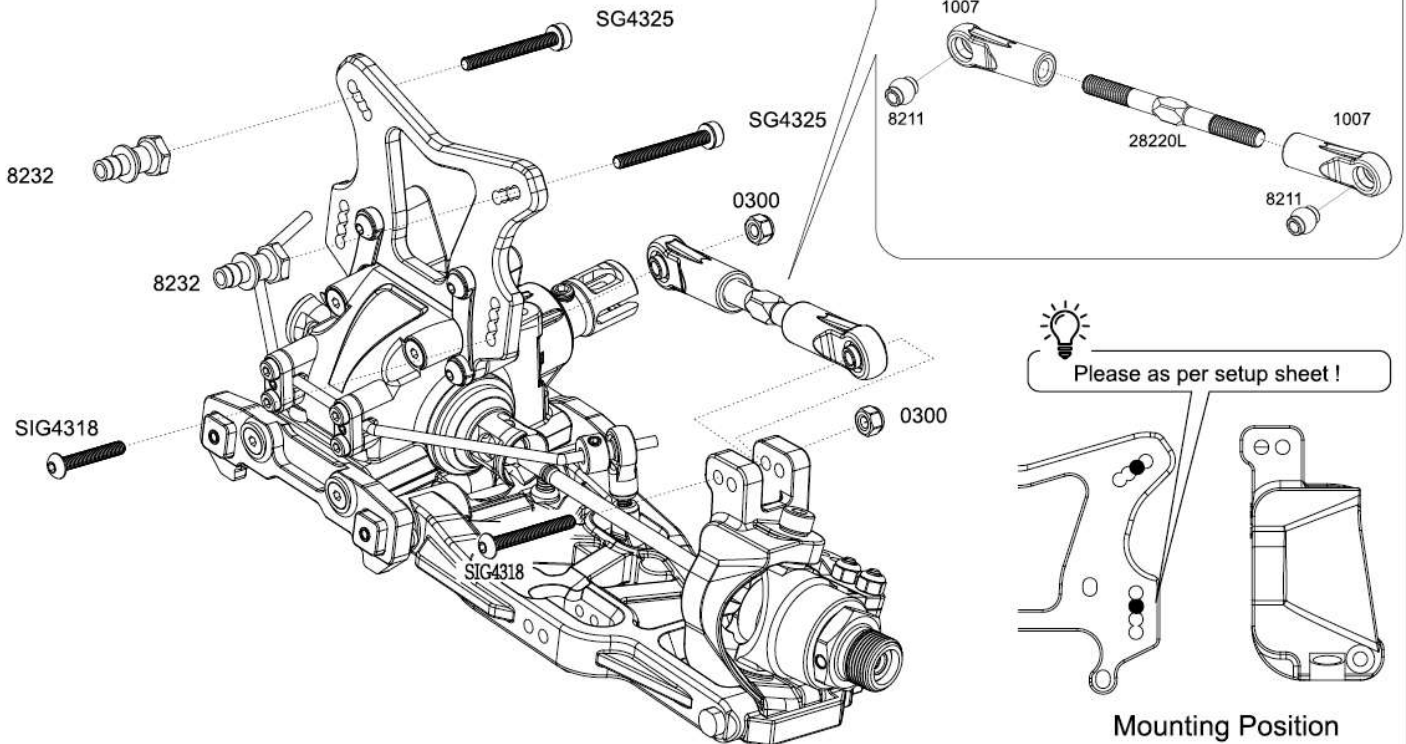
STEP D - 5

Front Shock Tower Assembly



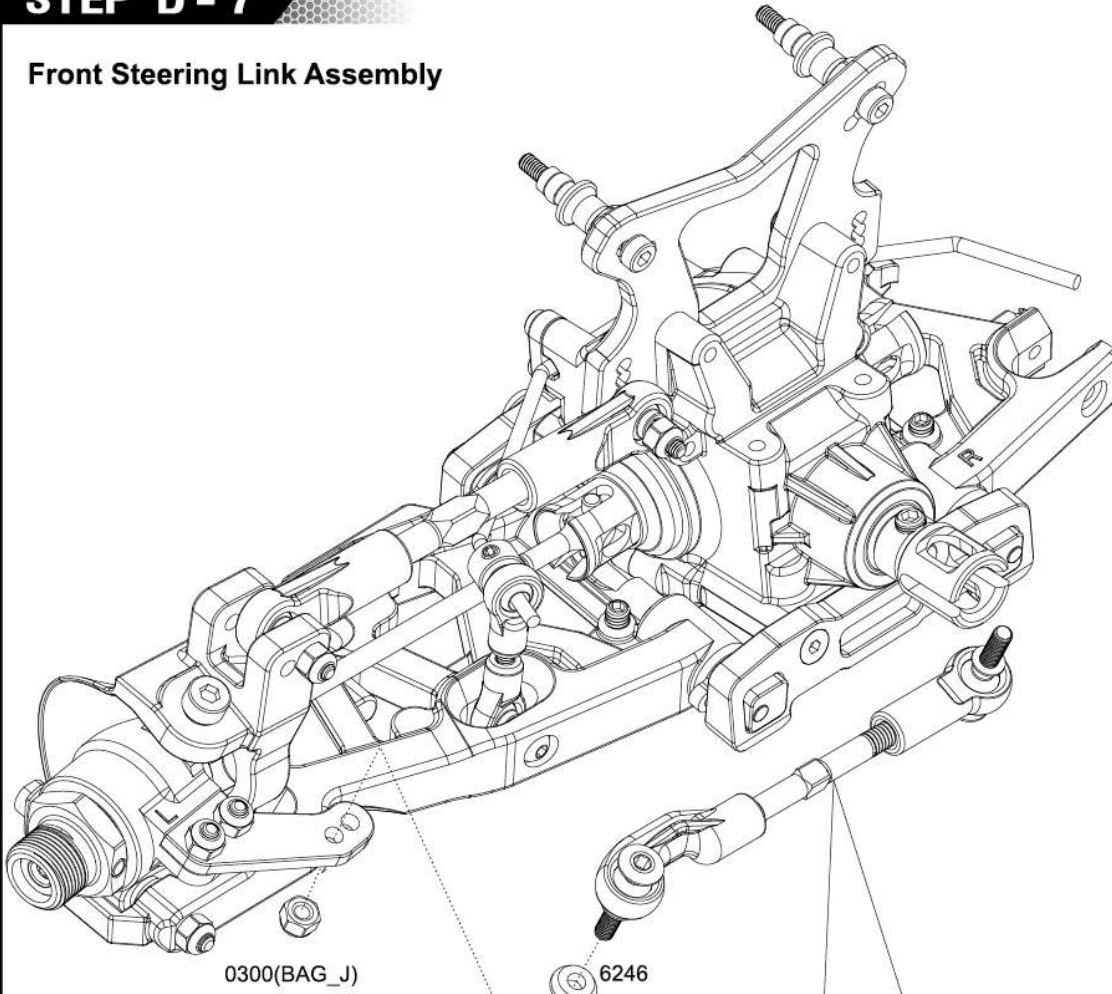
STEP D - 6

Front Camber Link Assembly



STEP D-7

Front Steering Link Assembly



0300(BAG_J)

6246

6246

2212

1307

38222

1307

2212

28.3mm

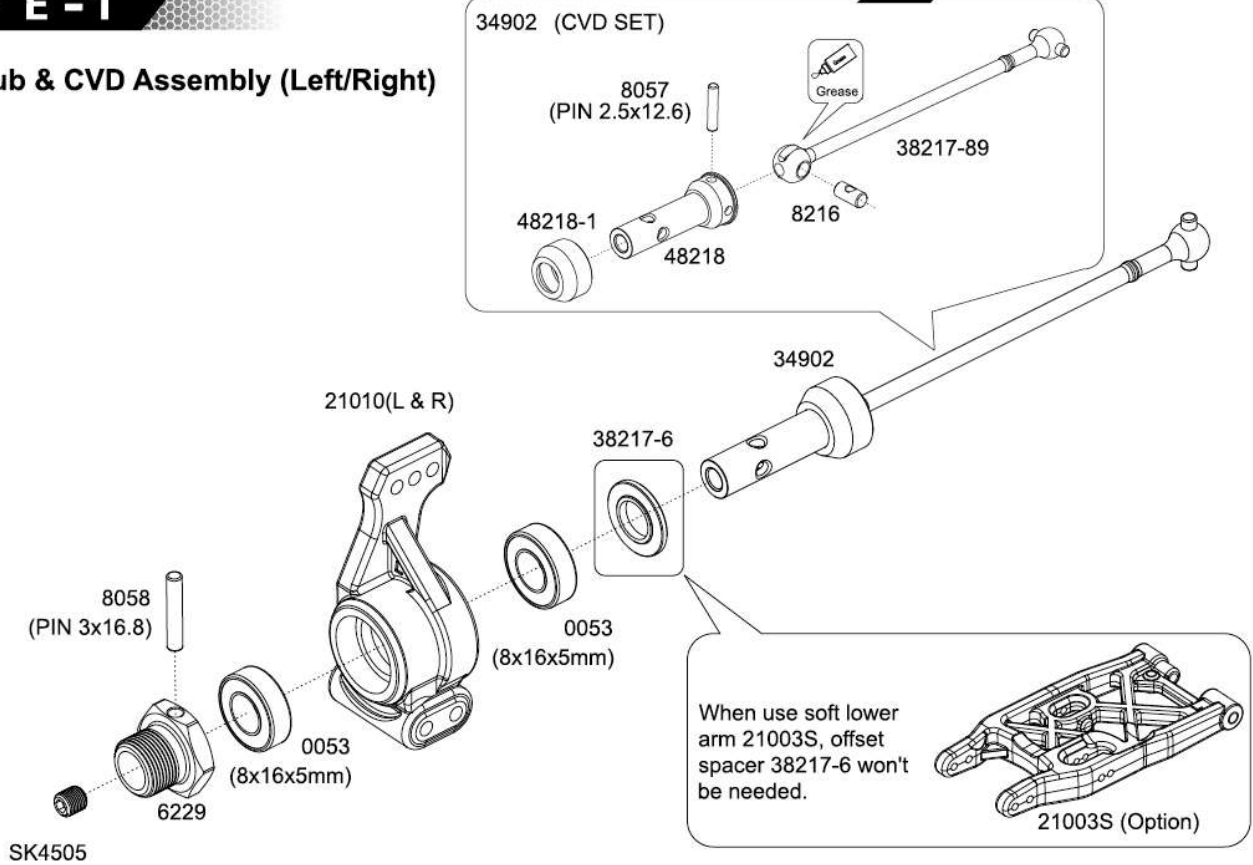
groove

Right Hand Thread

Left Hand Thread

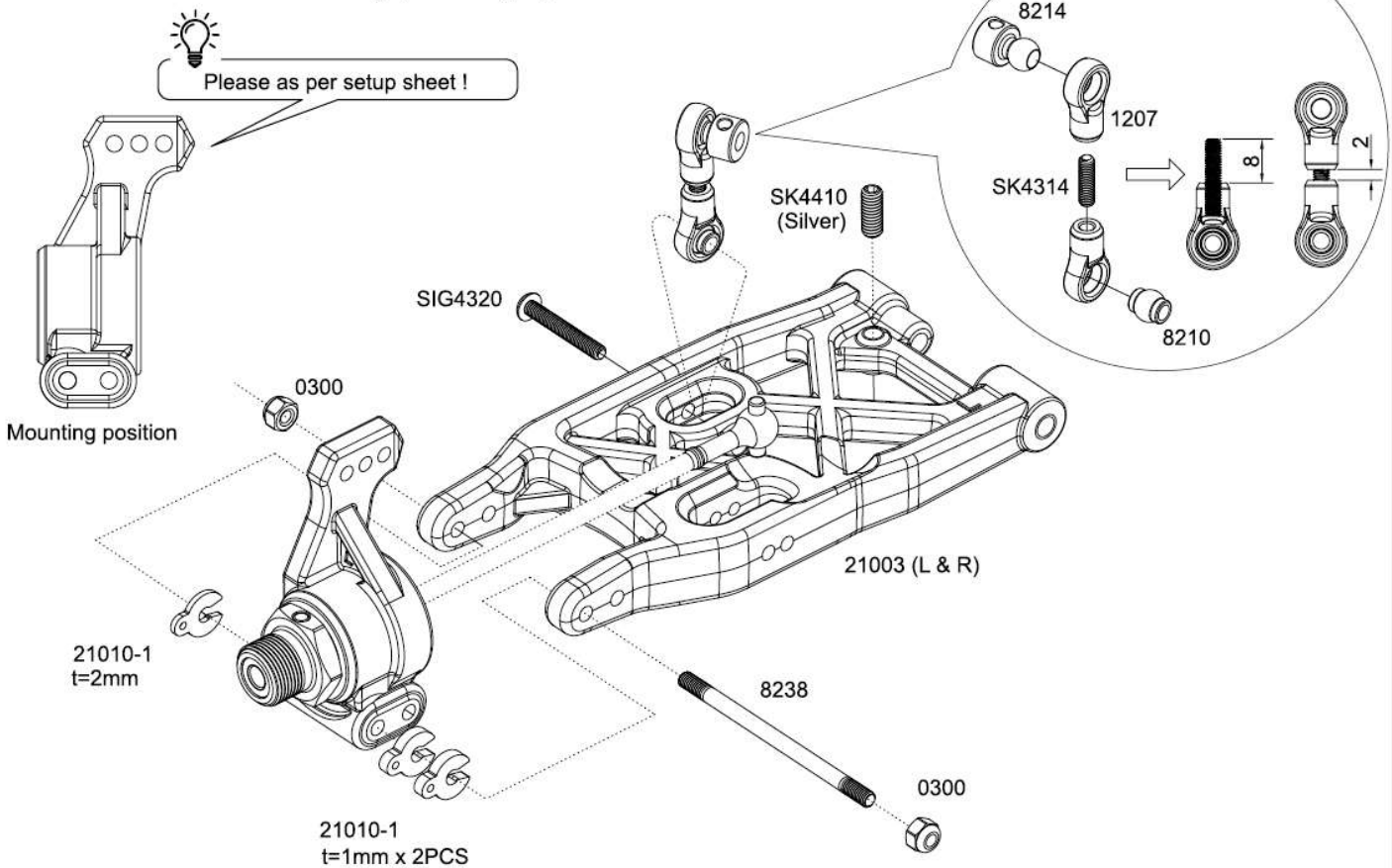
STEP E - 1

Rear Hub & CVD Assembly (Left/Right)



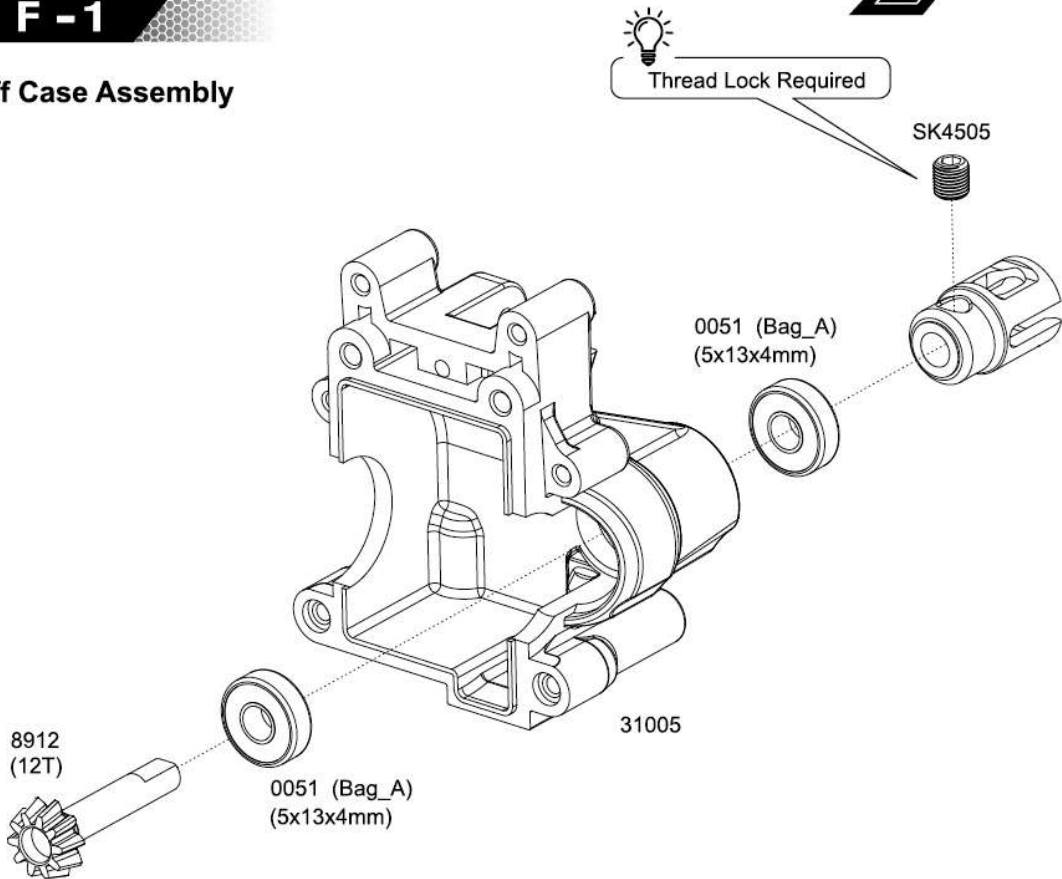
STEP E - 2

Rear Hub & CVD Assembly (Left/Right)



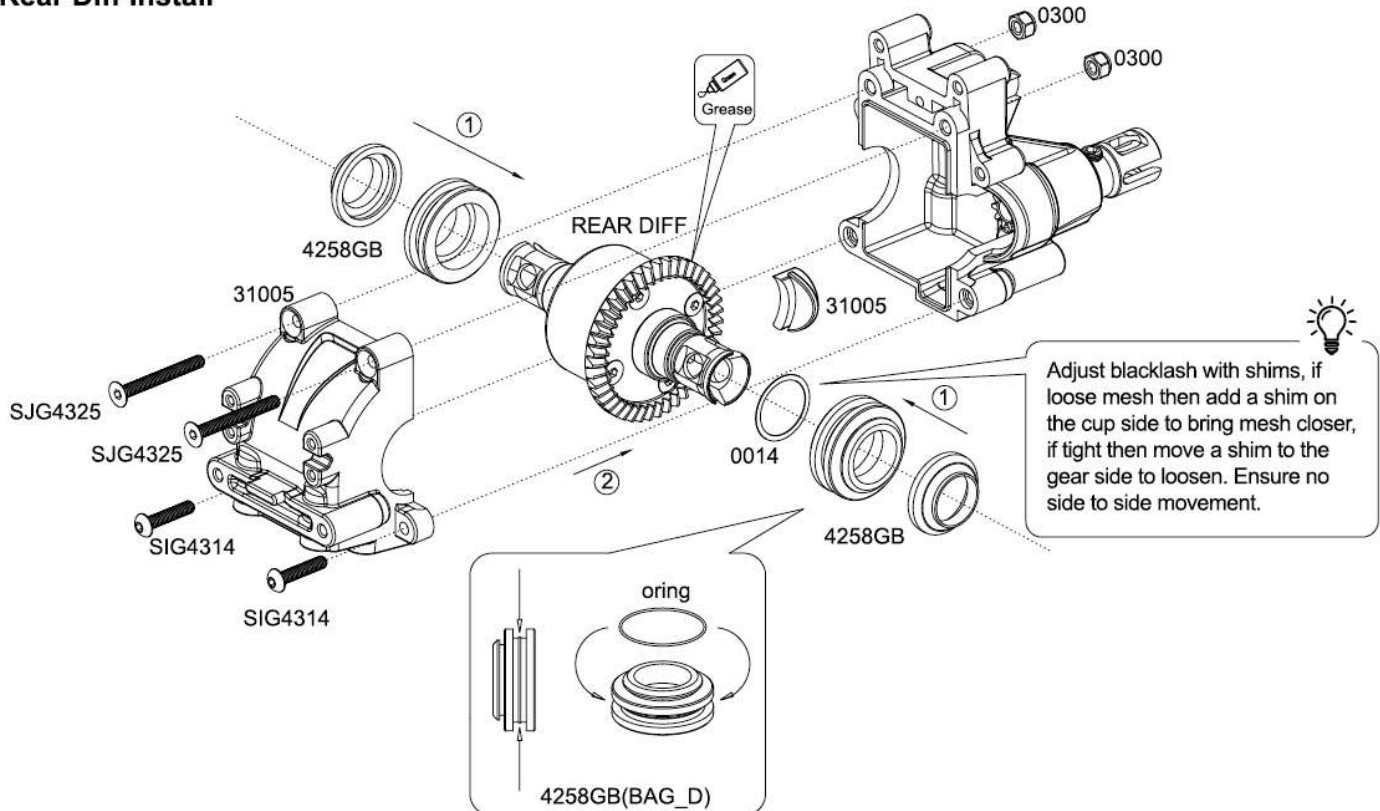
STEP F - 1

Rear Diff Case Assembly



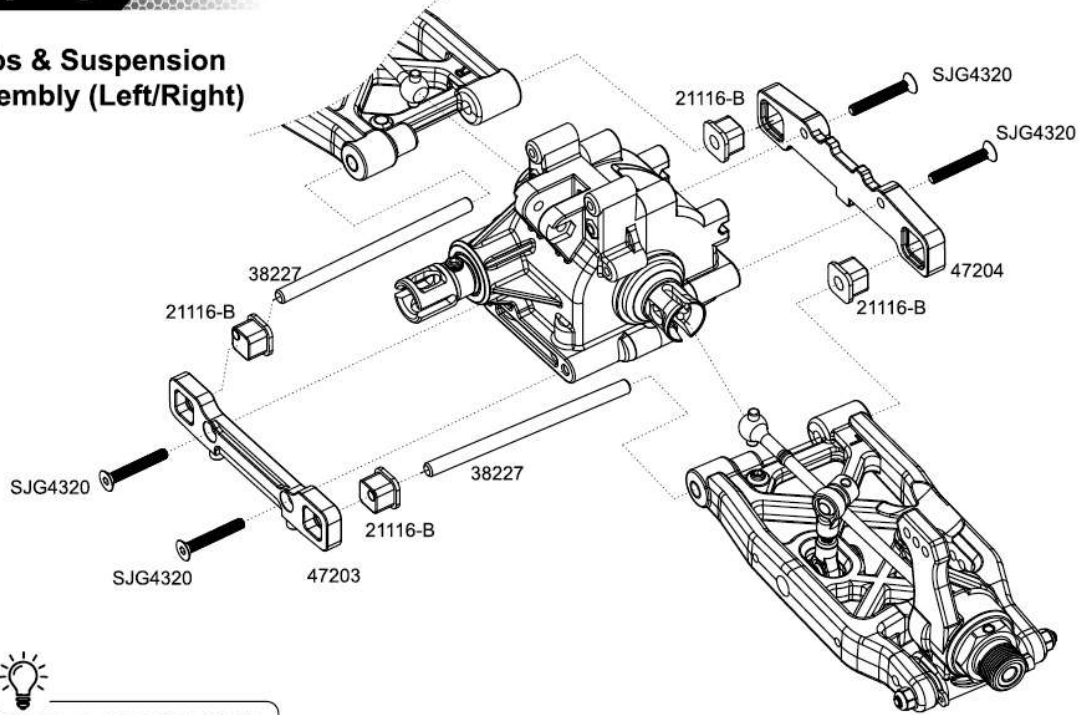
STEP F - 2

Rear Diff Install

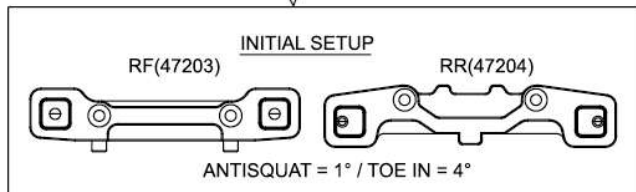


STEP F - 3

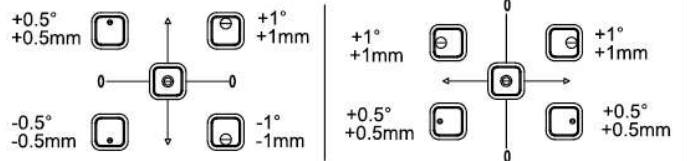
Rear Hubs & Suspension Arm Assembly (Left/Right)



Please as per setup sheet

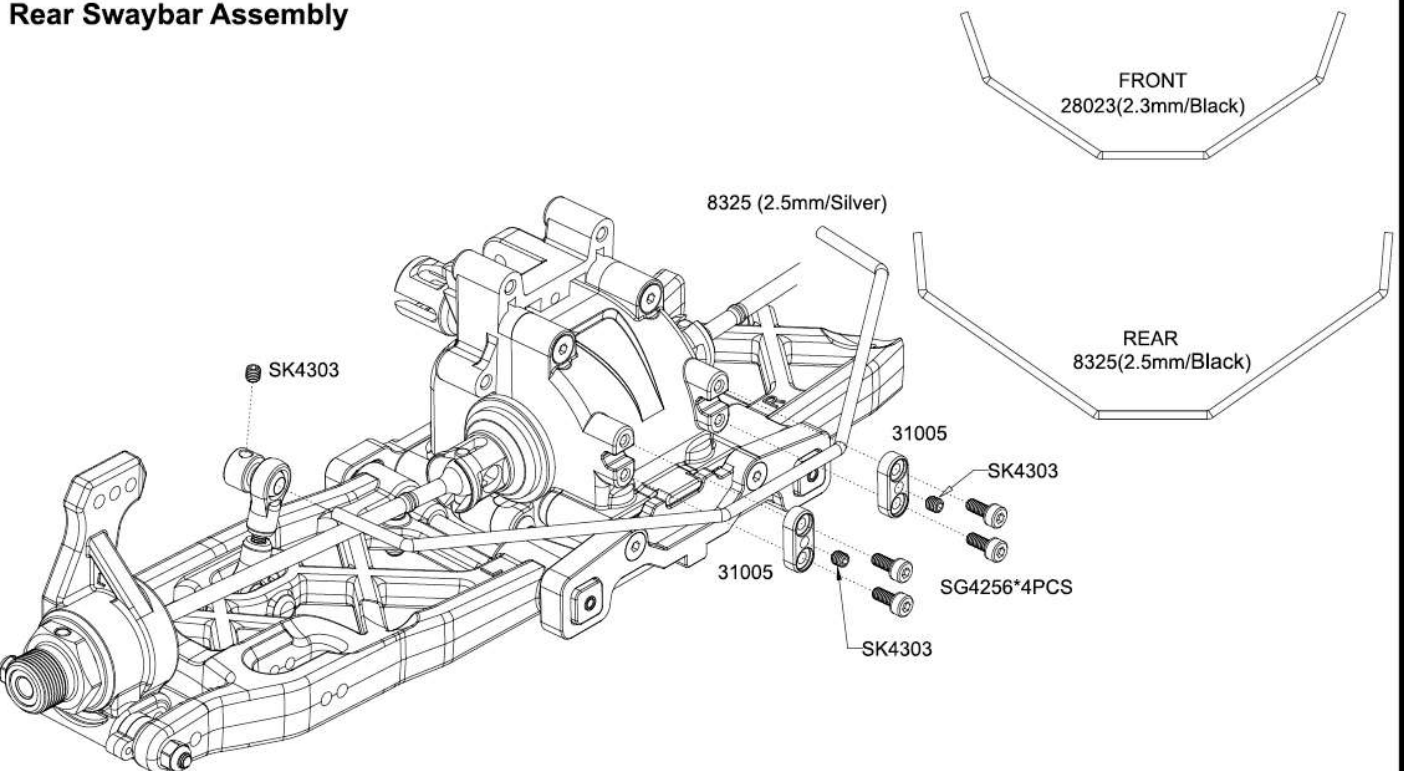


SUSPENSION BUSHINGS CHART



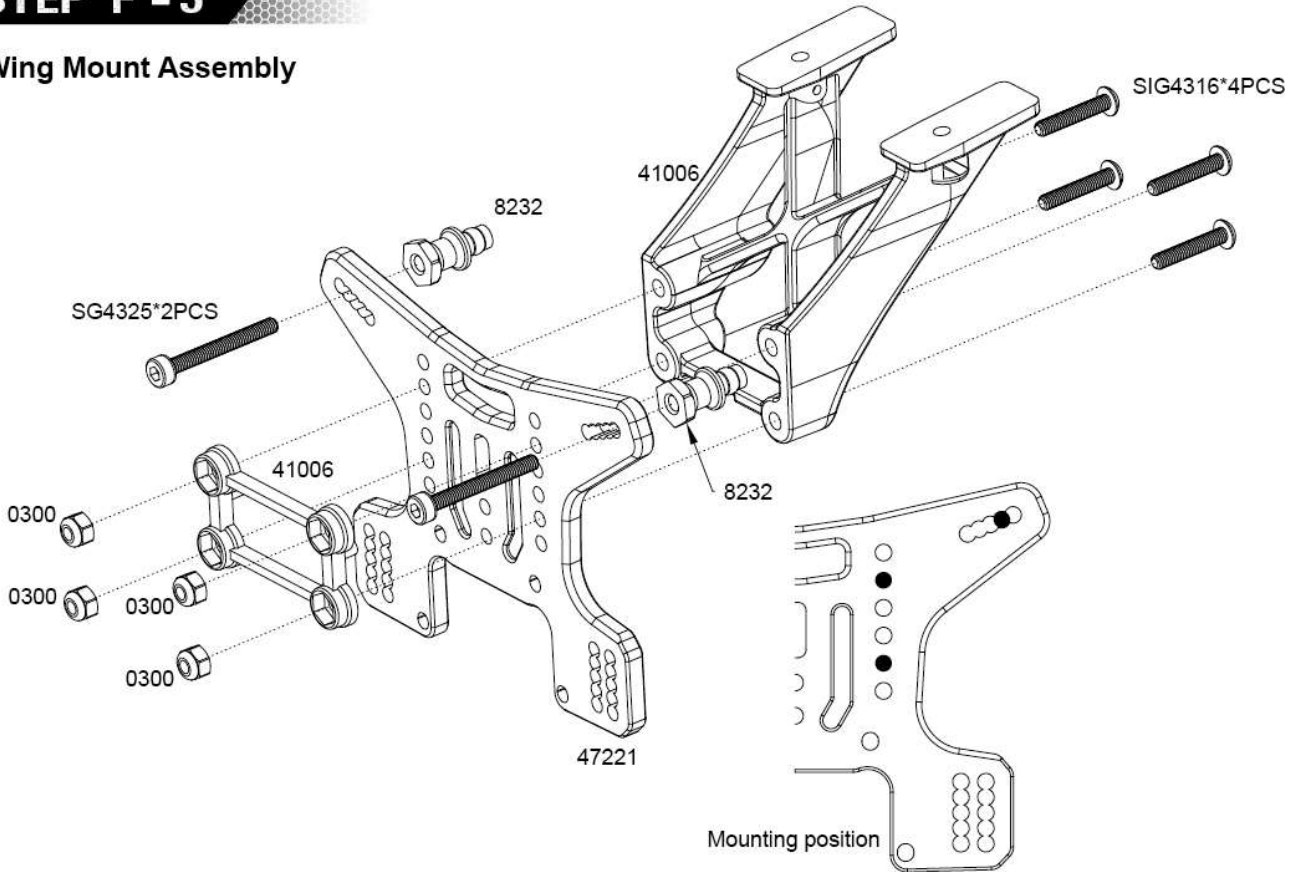
STEP F - 4

Rear Swaybar Assembly



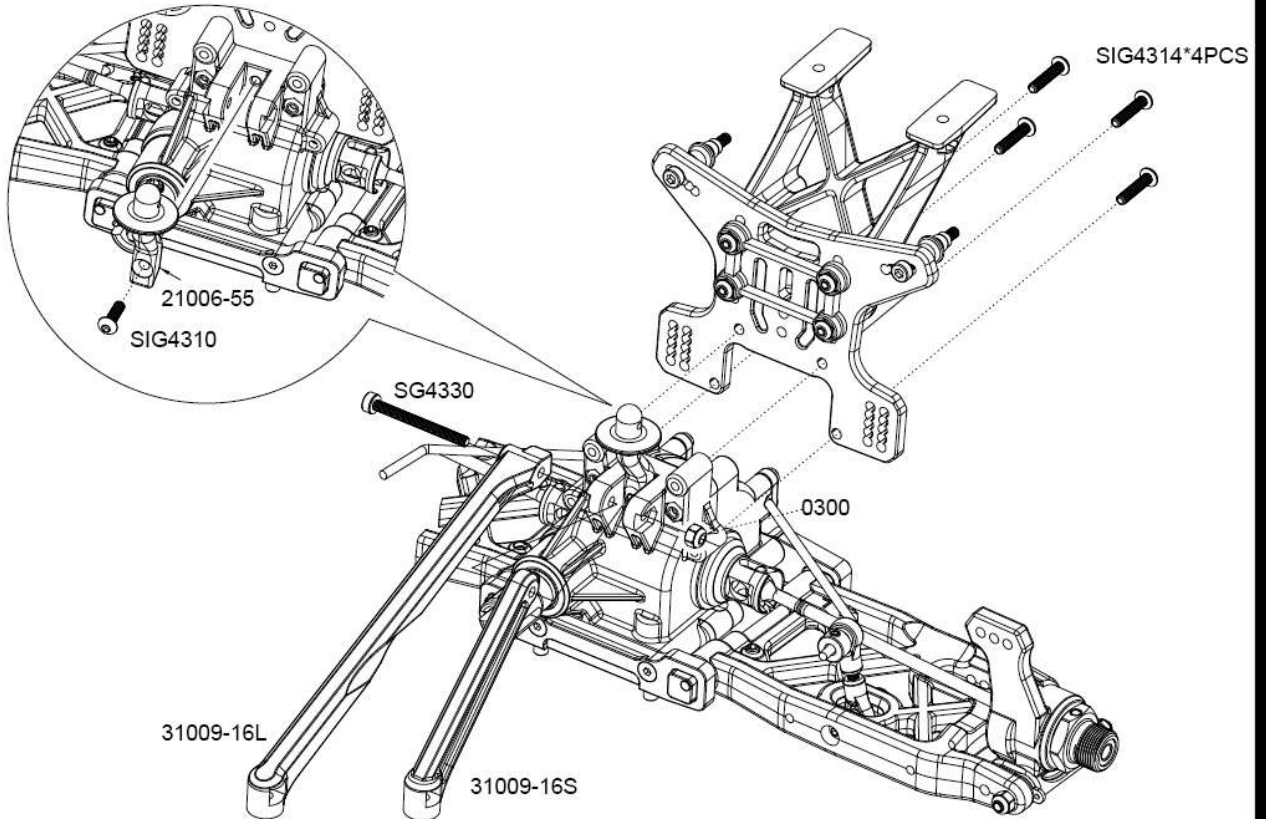
STEP F - 5

Wing Mount Assembly



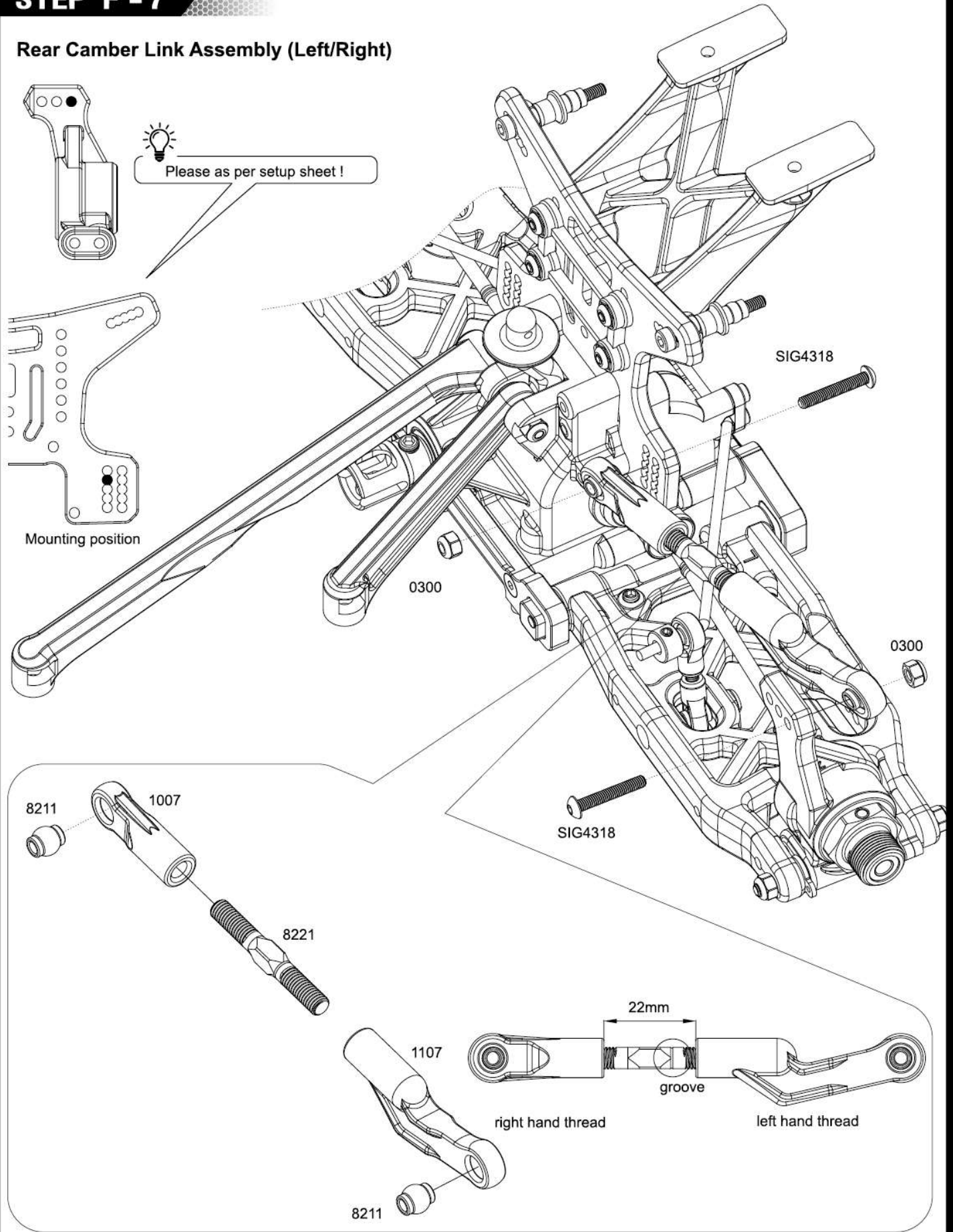
STEP F - 6

Rear Shock Tower Installation



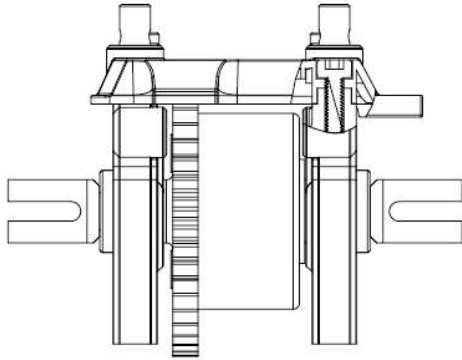
STEP F - 7

Rear Camber Link Assembly (Left/Right)

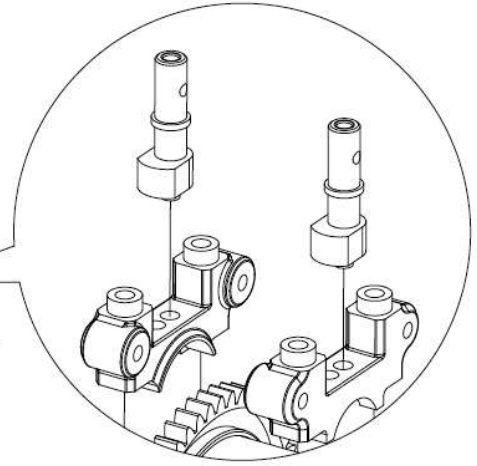
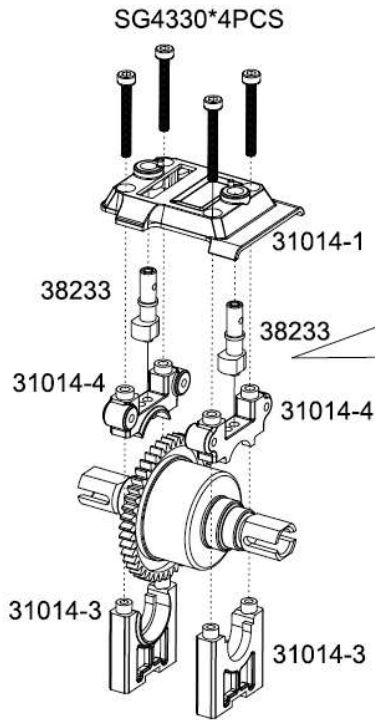


STEP G-1

Center Diff Mount & Front Brake Assembly

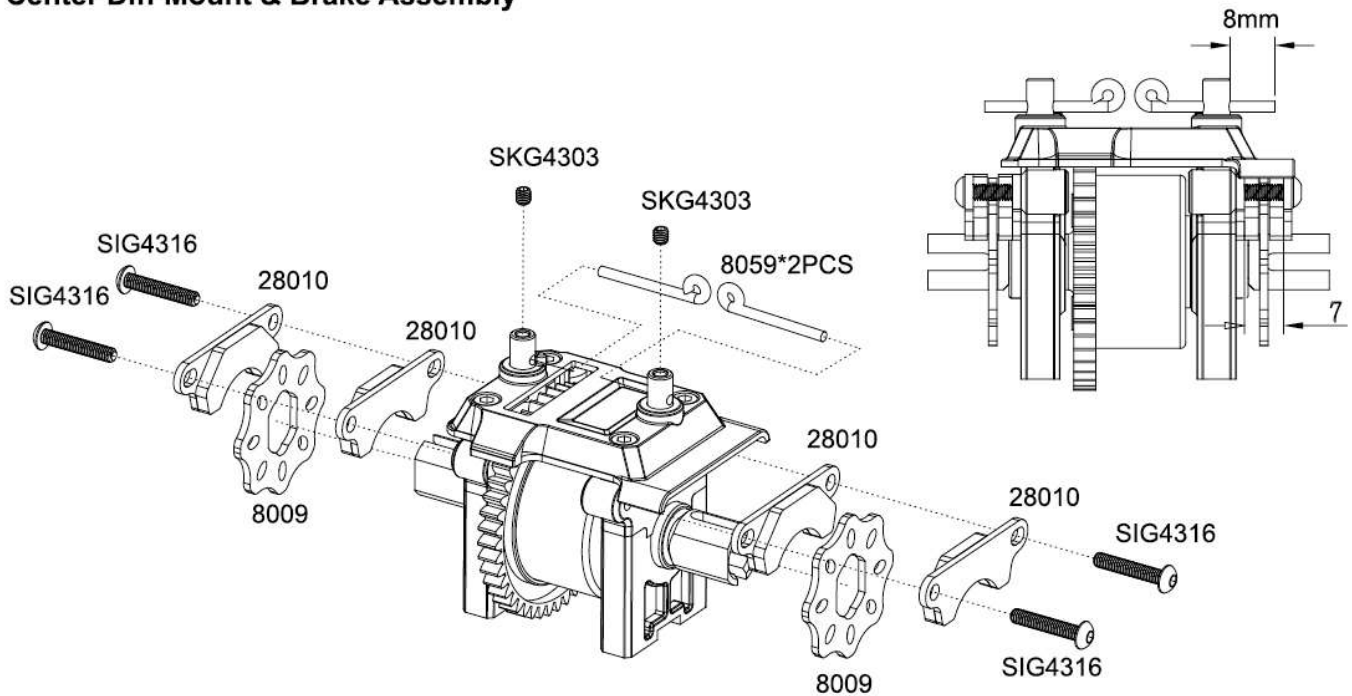


Please tighten the screws until they are flush with the top plastic plate, do not overtighten. Ensure free movement of brake cams.



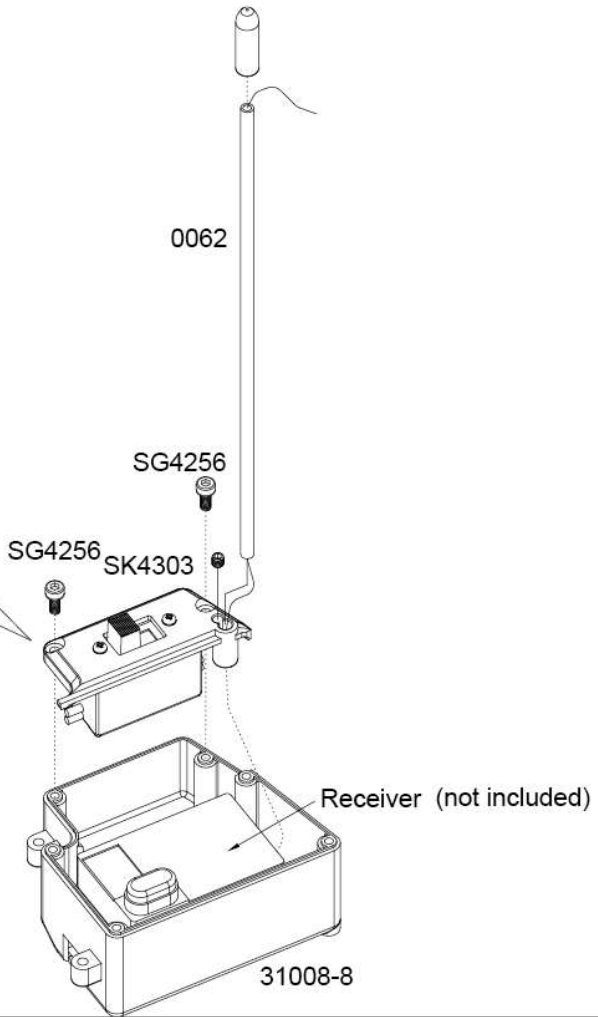
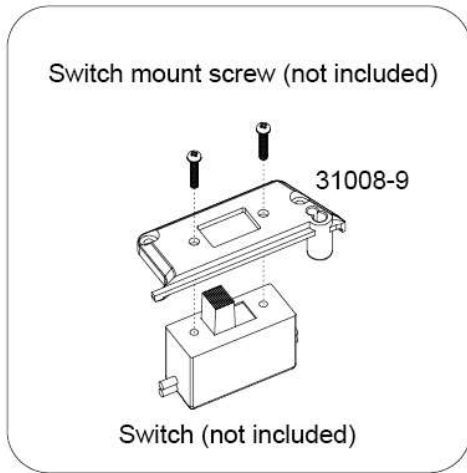
STEP G-2

Center Diff Mount & Brake Assembly



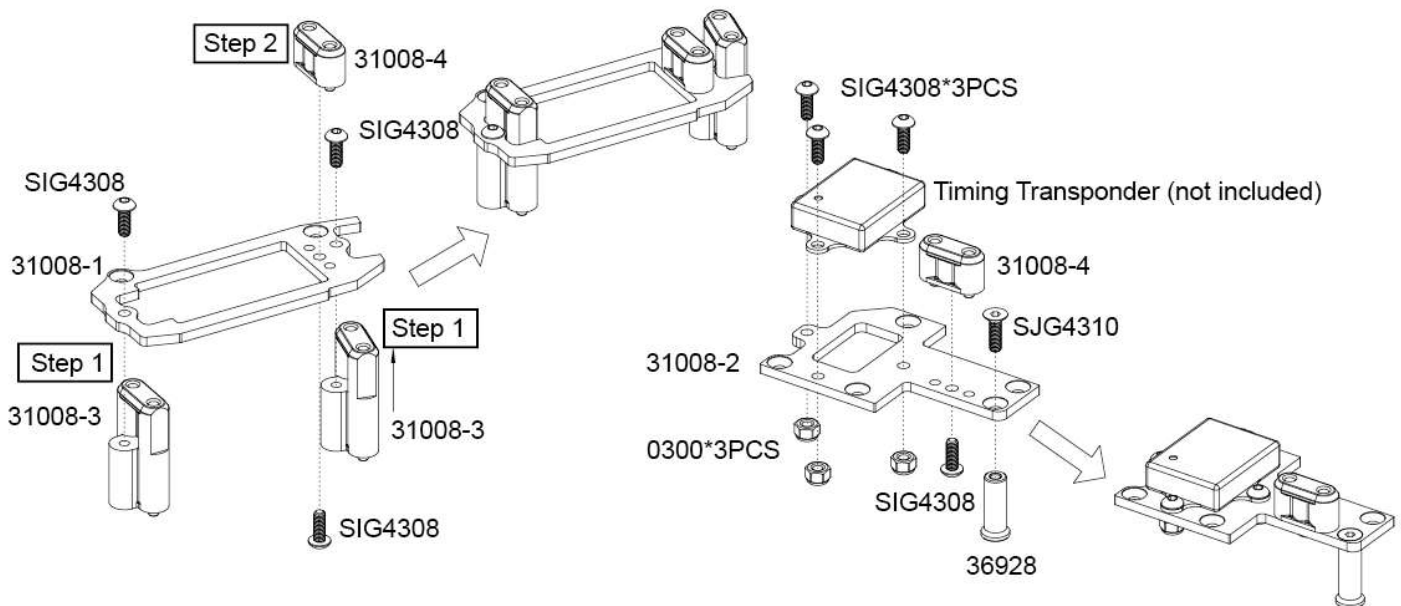
STEP H-1

Receiver/Antenna/Switch Assembly



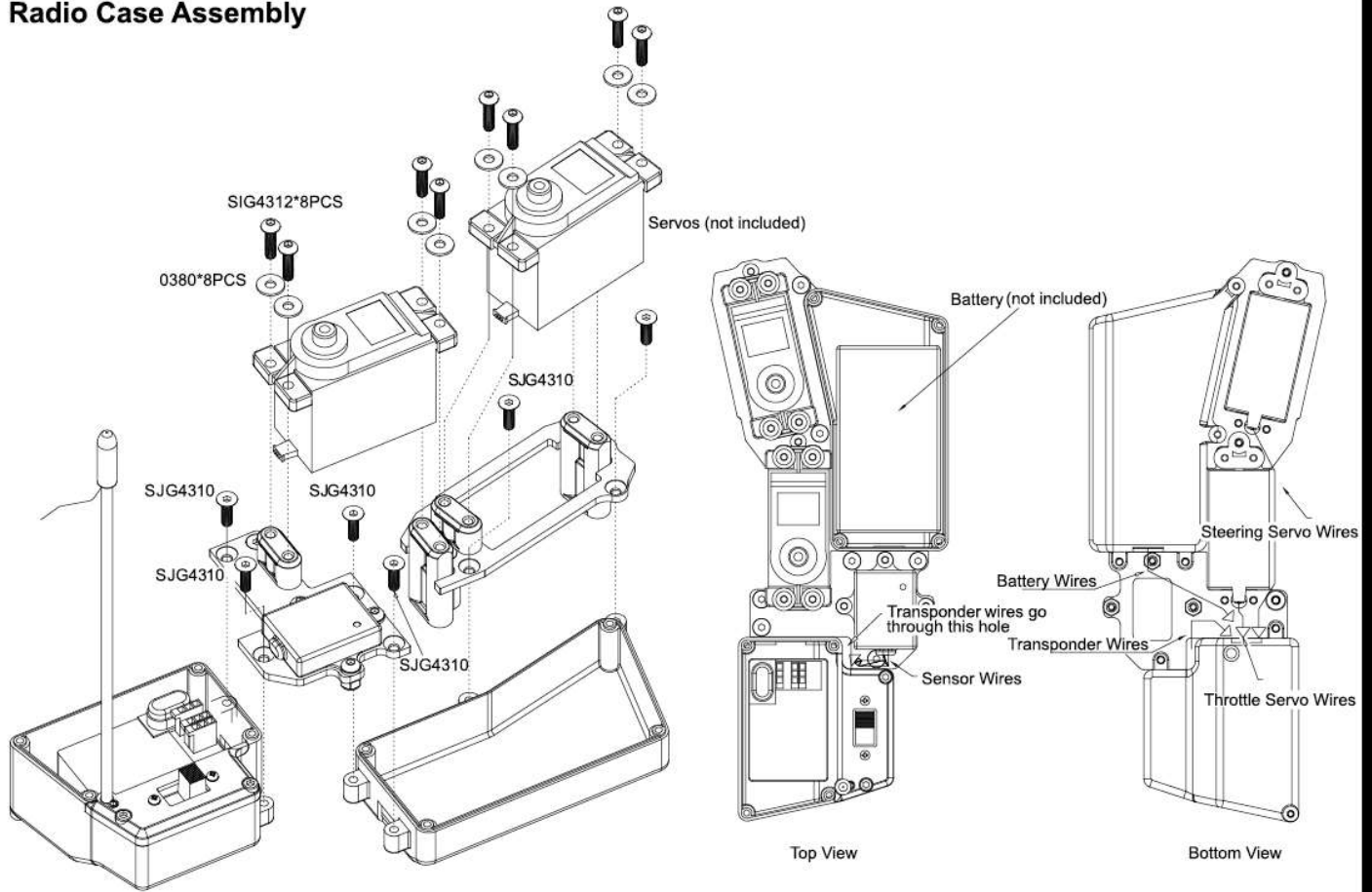
STEP H-2

Servo/Transponder Mount Assembly



STEP H - 3

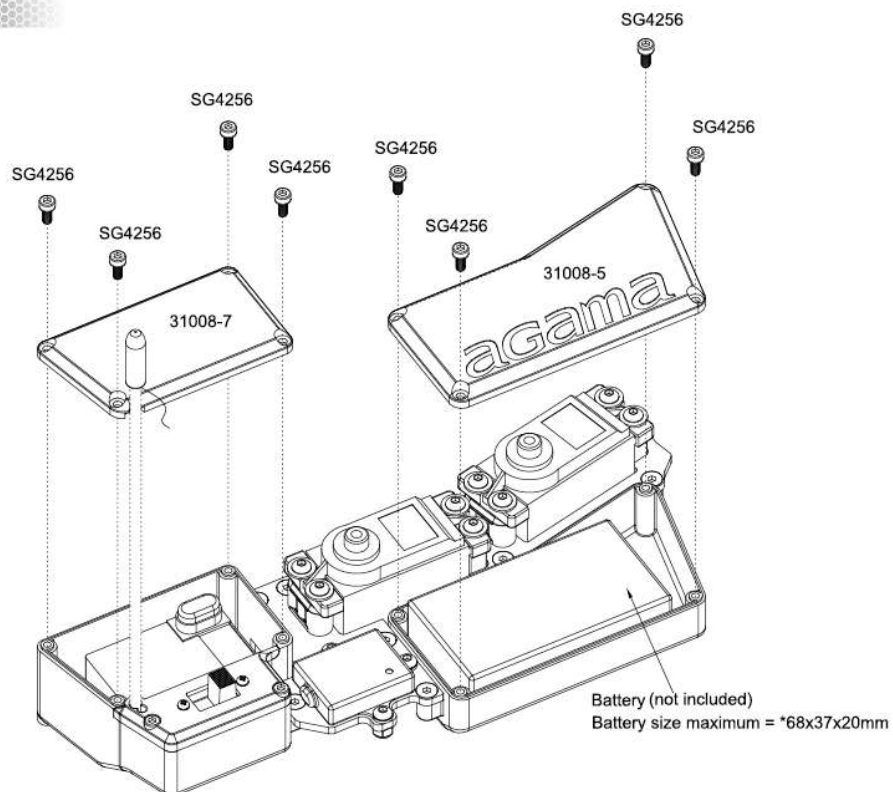
Radio Case Assembly



Switch & Servo Assembly (Cable Routing)

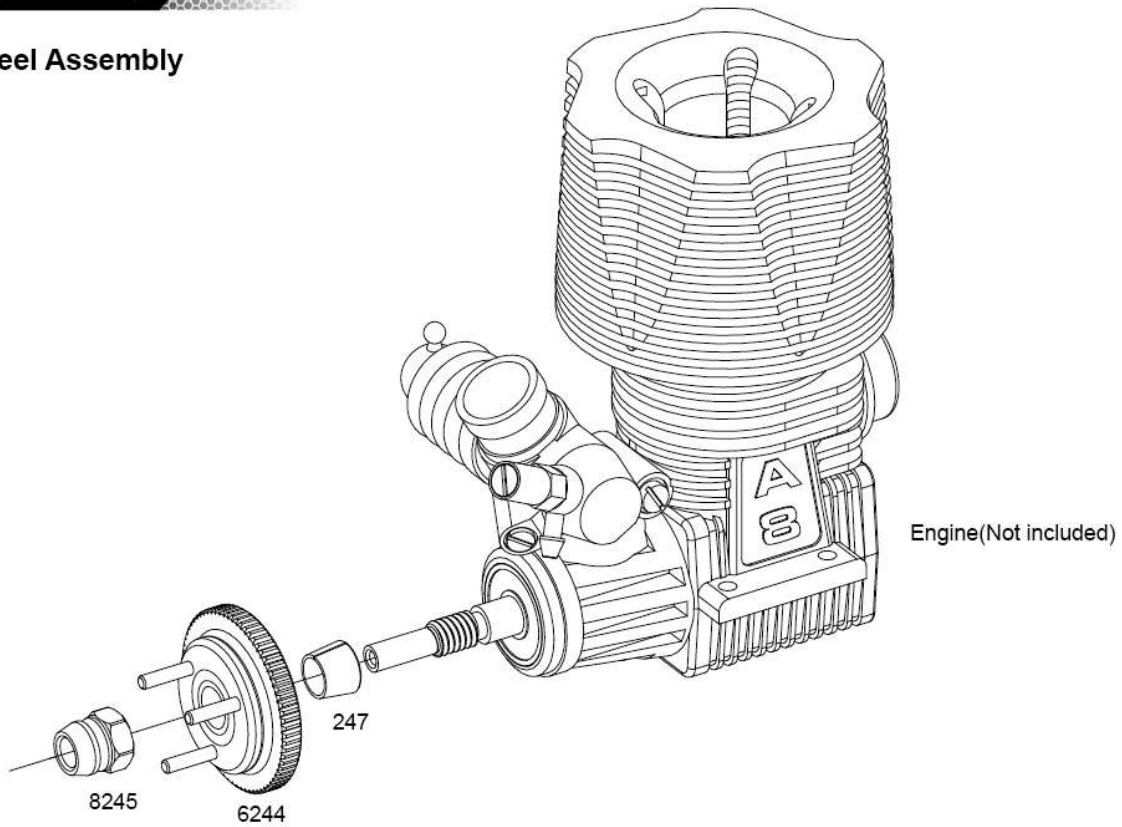
STEP H - 4

Radio Case Assembly



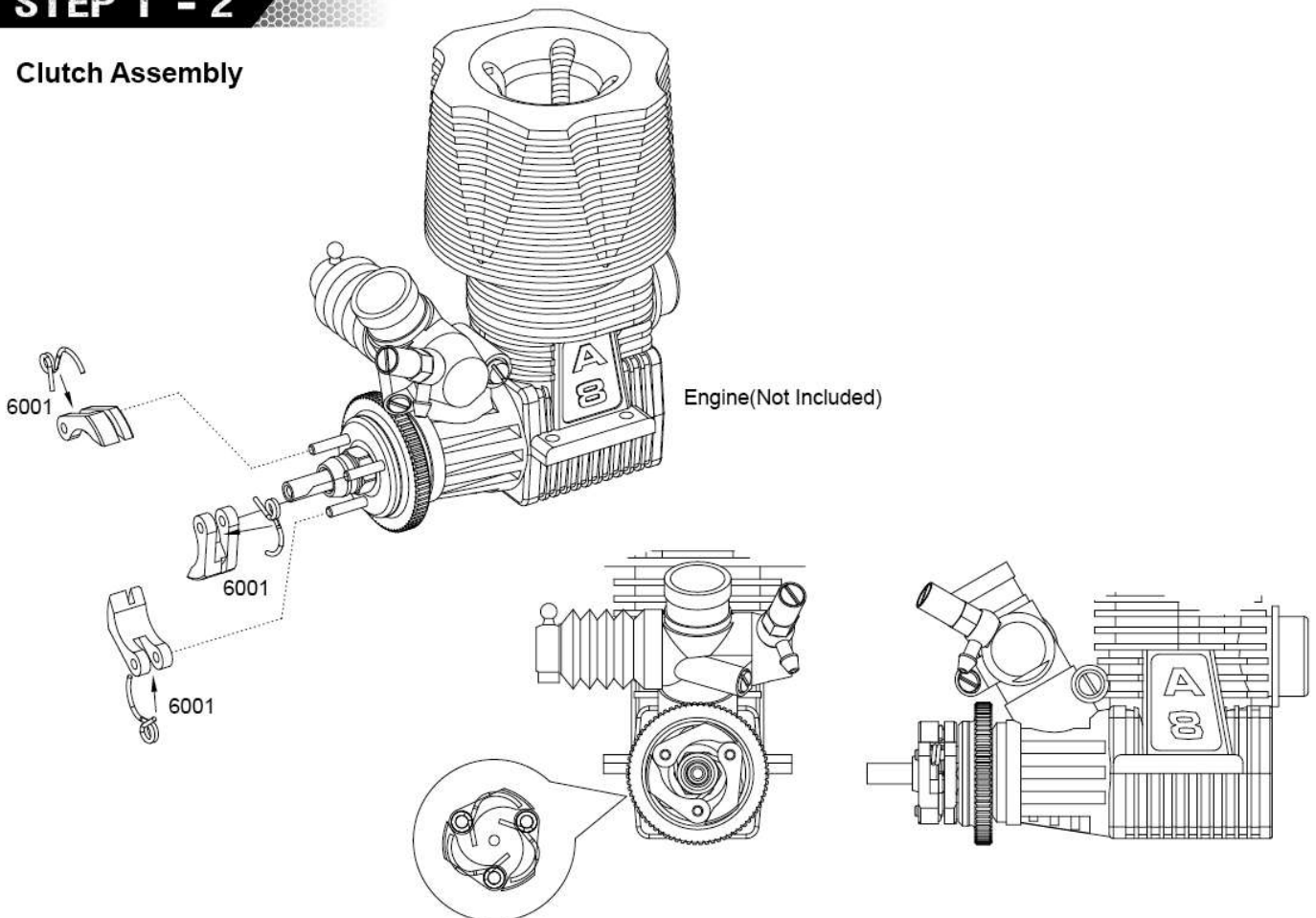
STEP I - 1

Flywheel Assembly



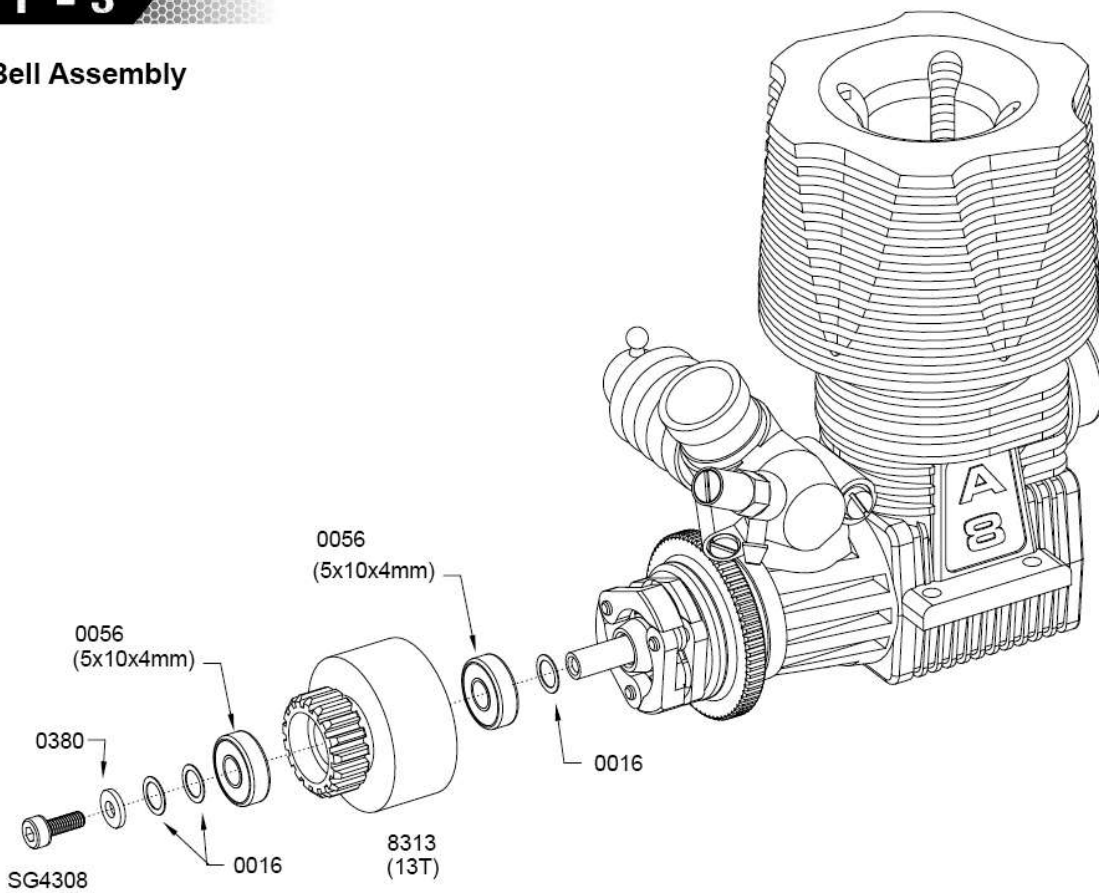
STEP I - 2

Clutch Assembly



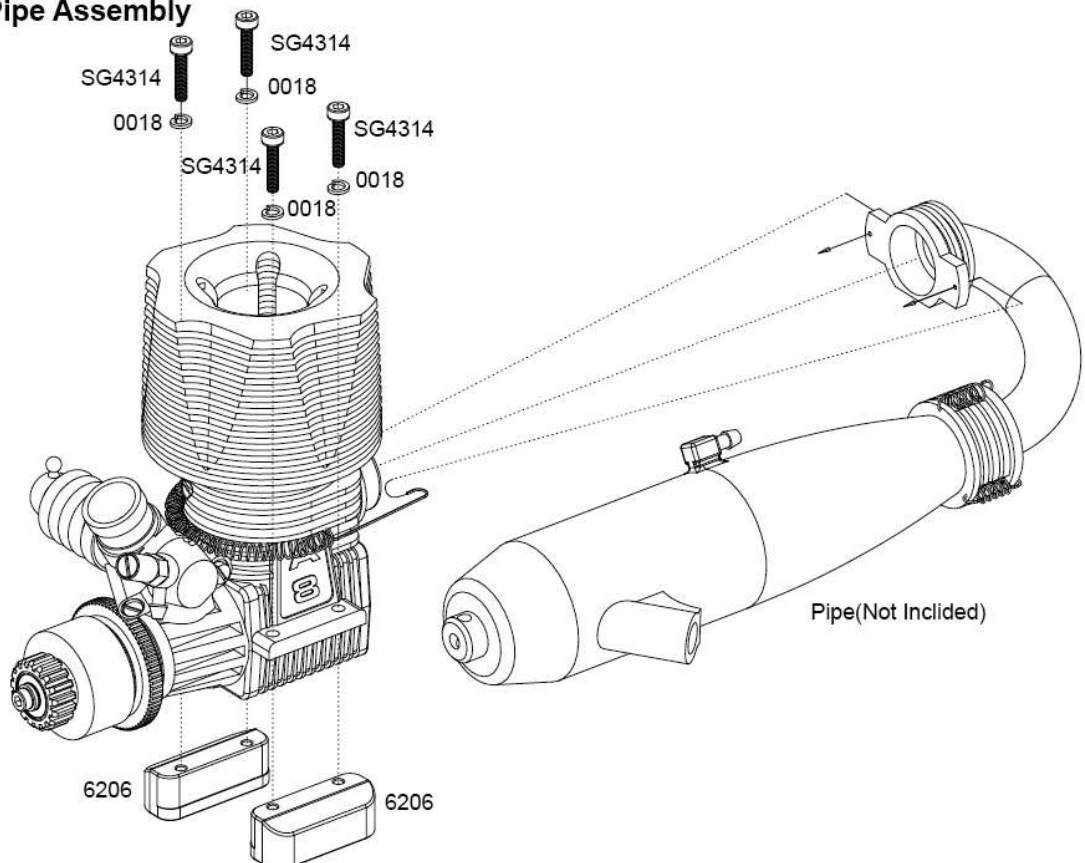
STEP I - 3

Clutch Bell Assembly



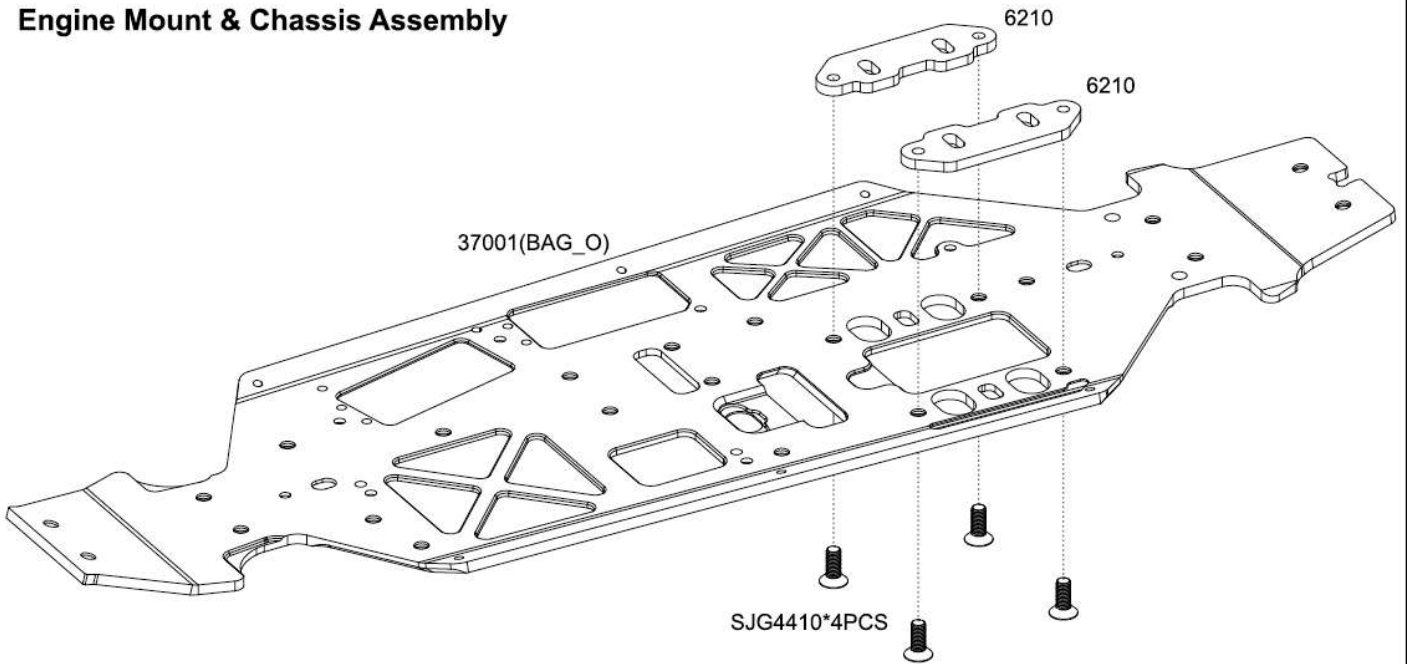
STEP I - 4

Engine Mount & Pipe Assembly



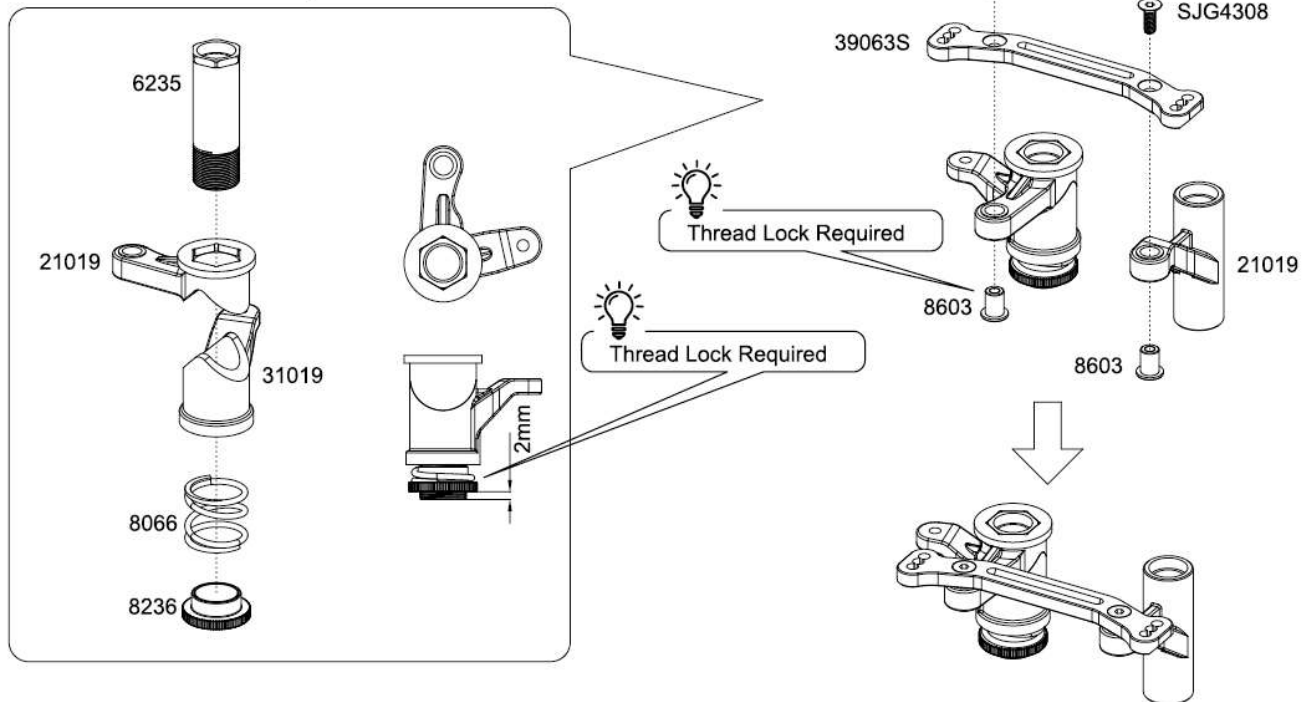
STEP I - 5

Engine Mount & Chassis Assembly



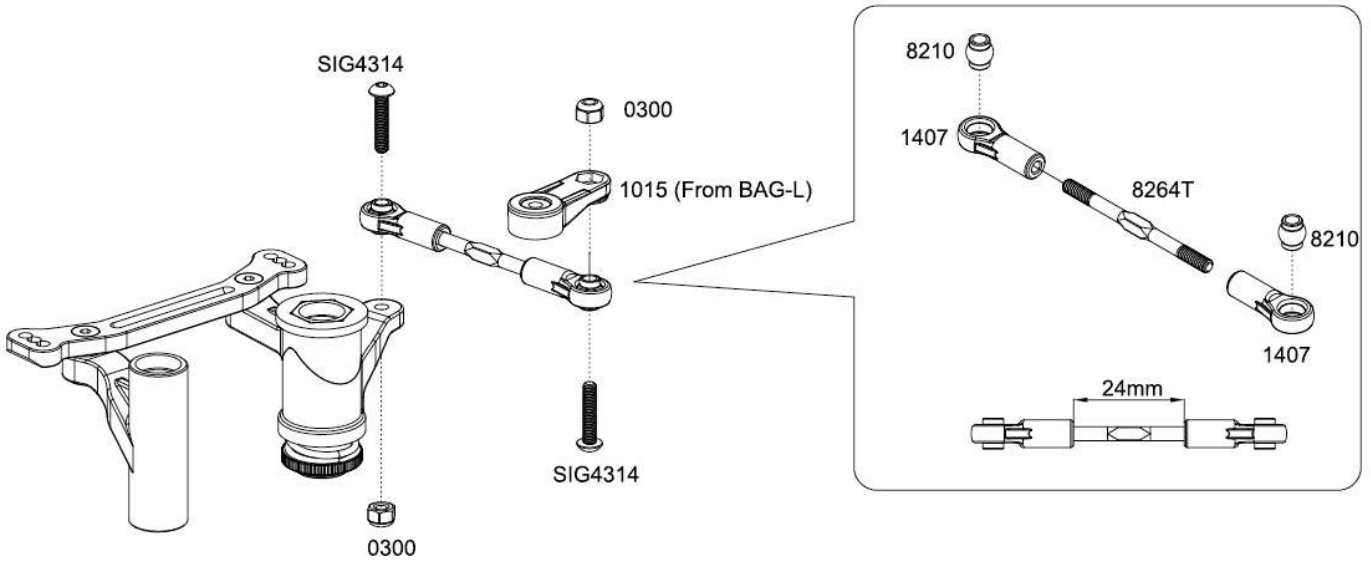
STEP J- 1

Servo Saver Assembly



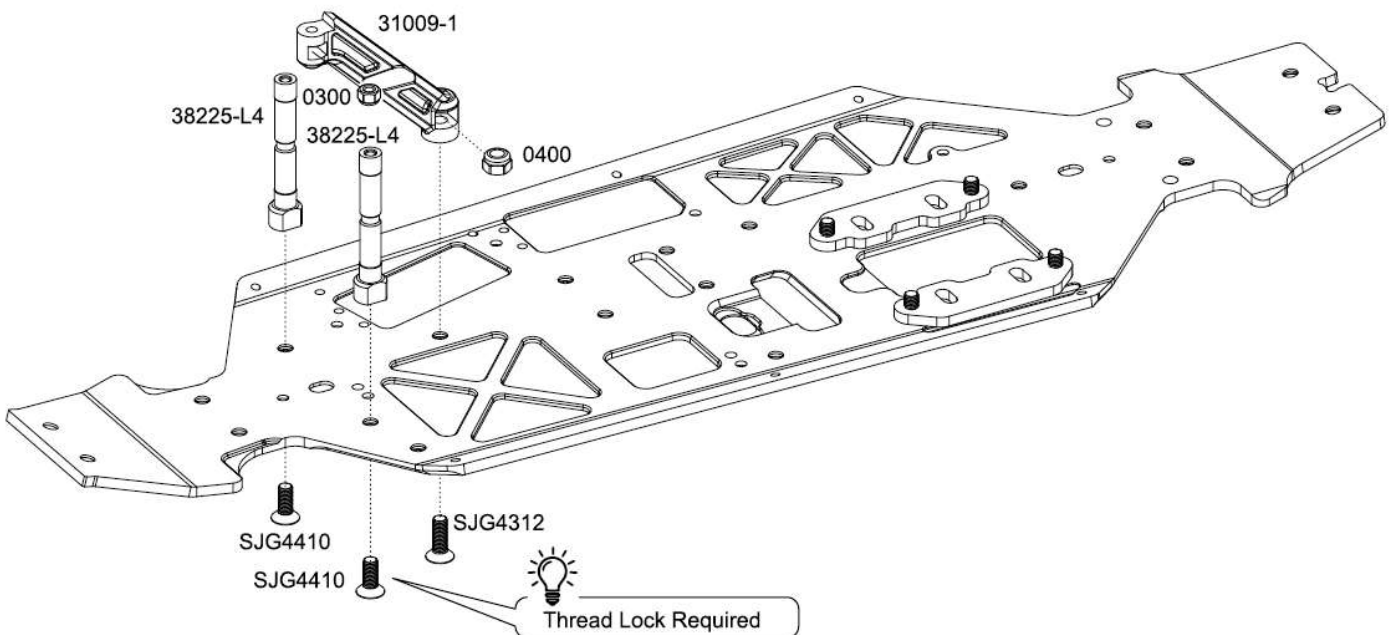
STEP J - 2

Steering Servo Link Assembly



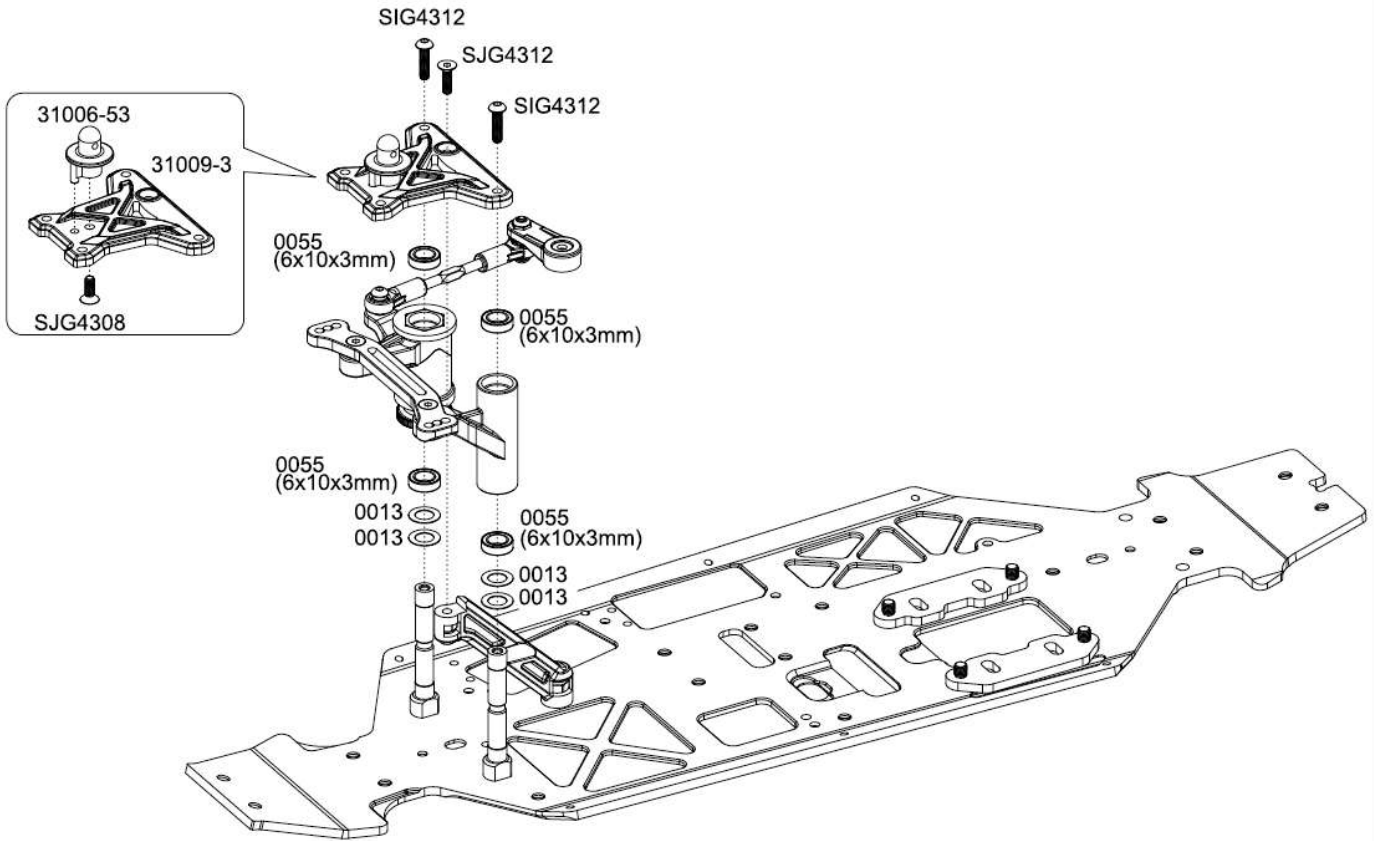
STEP J - 3

Steering Post & Front Chassis Support Assembly



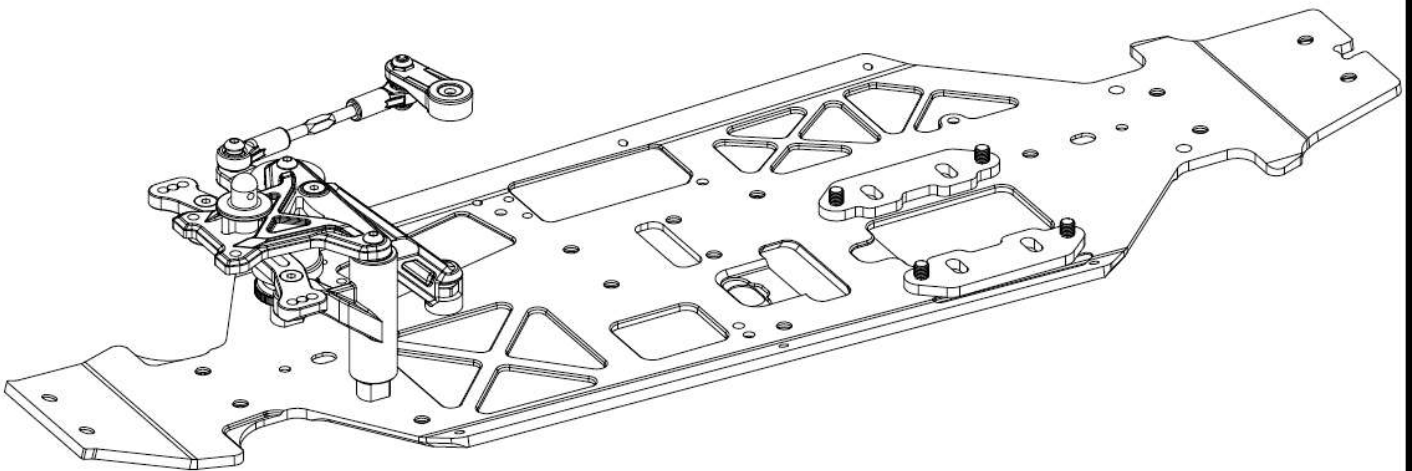
STEP J-4

Steering Saver & Front Chassis Brace Assembly



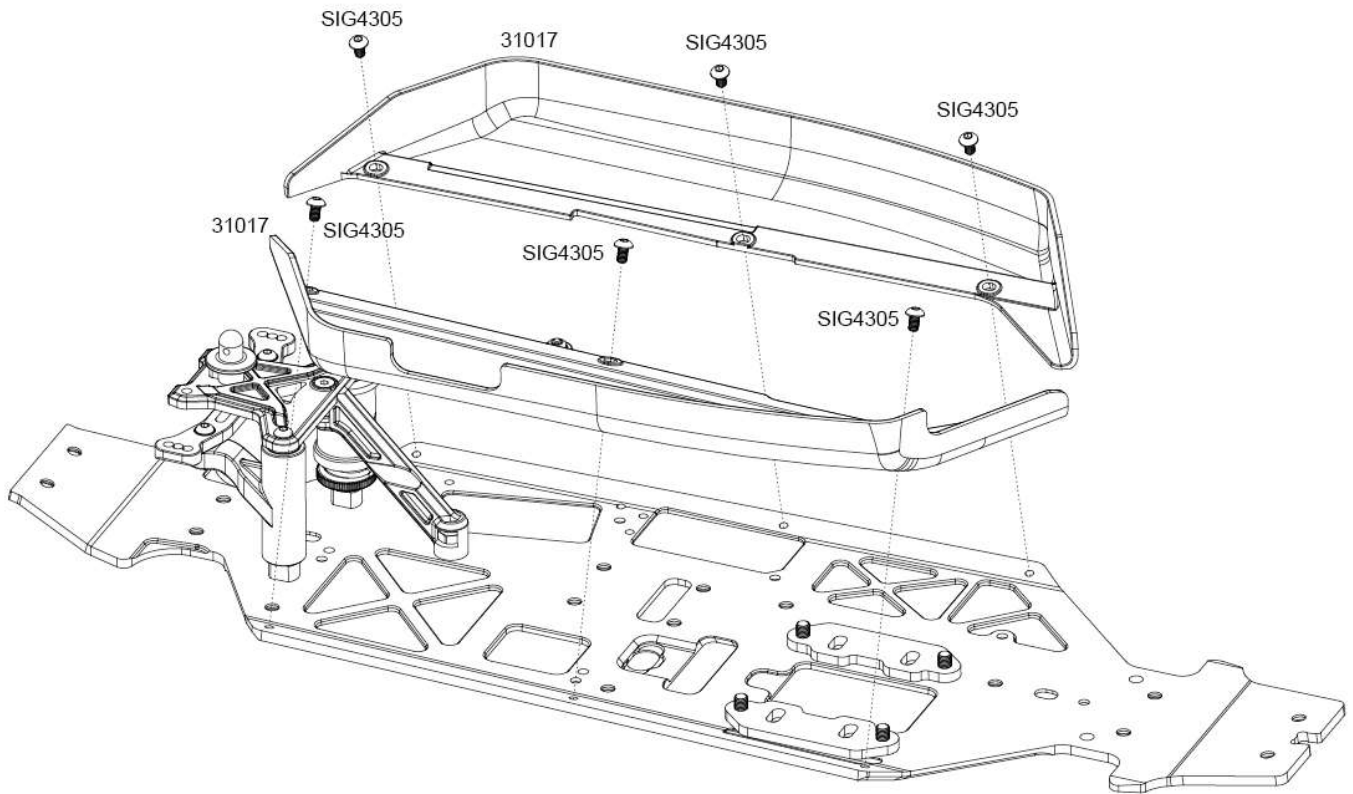
STEP J-5

Completed Steering Assembly



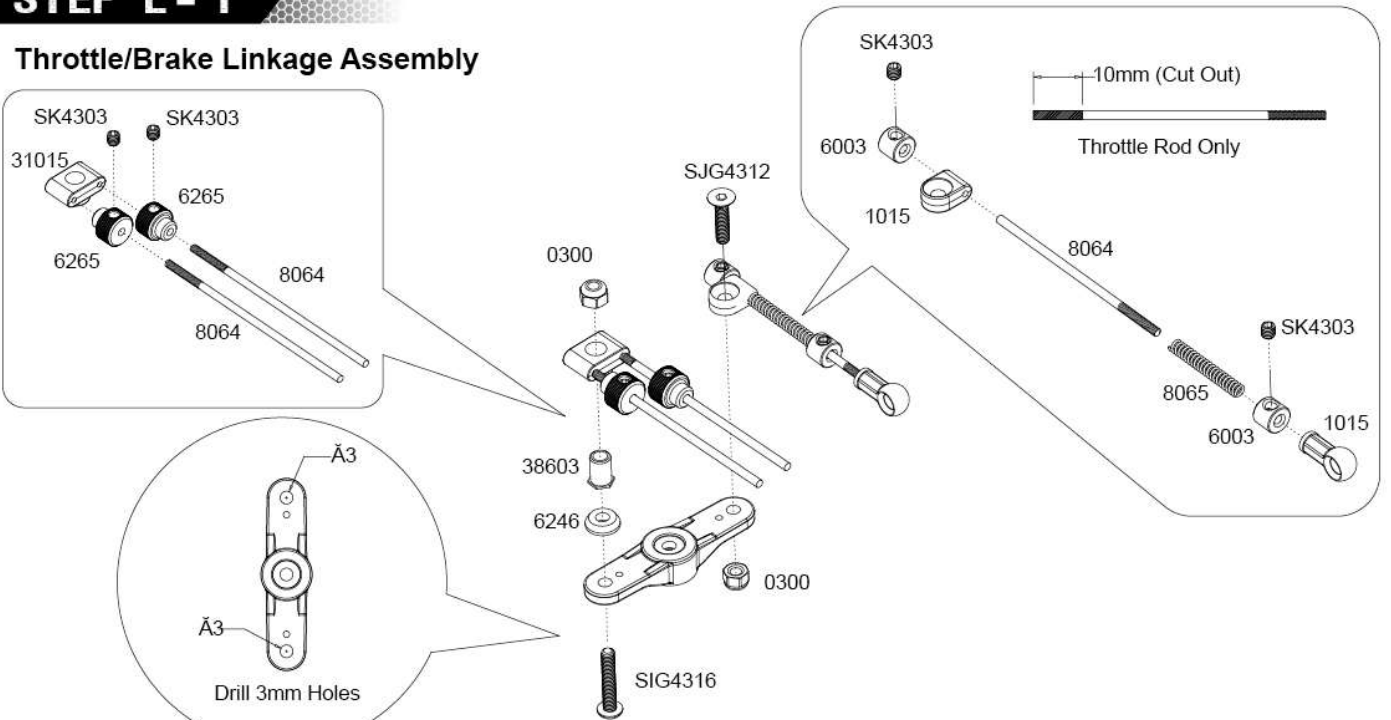
STEP K-1

Chassis Guard Installation



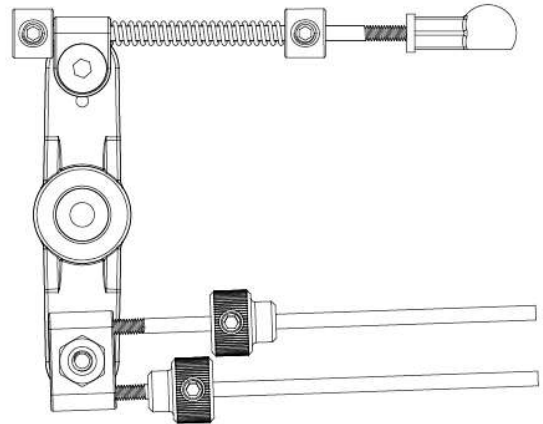
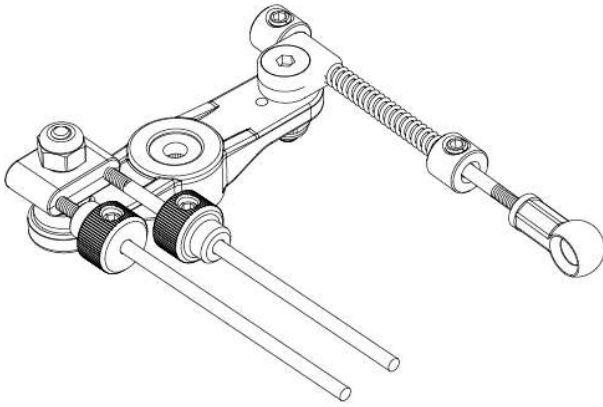
STEP L-1

Throttle/Brake Linkage Assembly



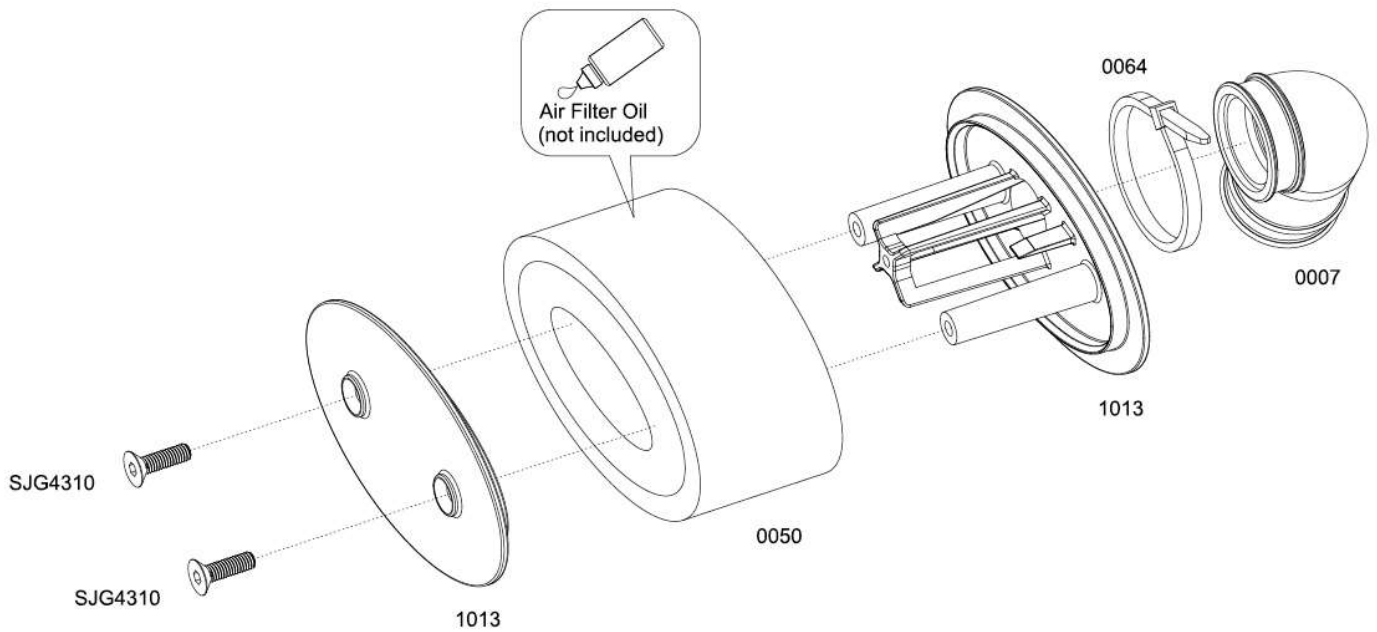
STEP L-2

Completed Throttle/Brake Linkage Assembly



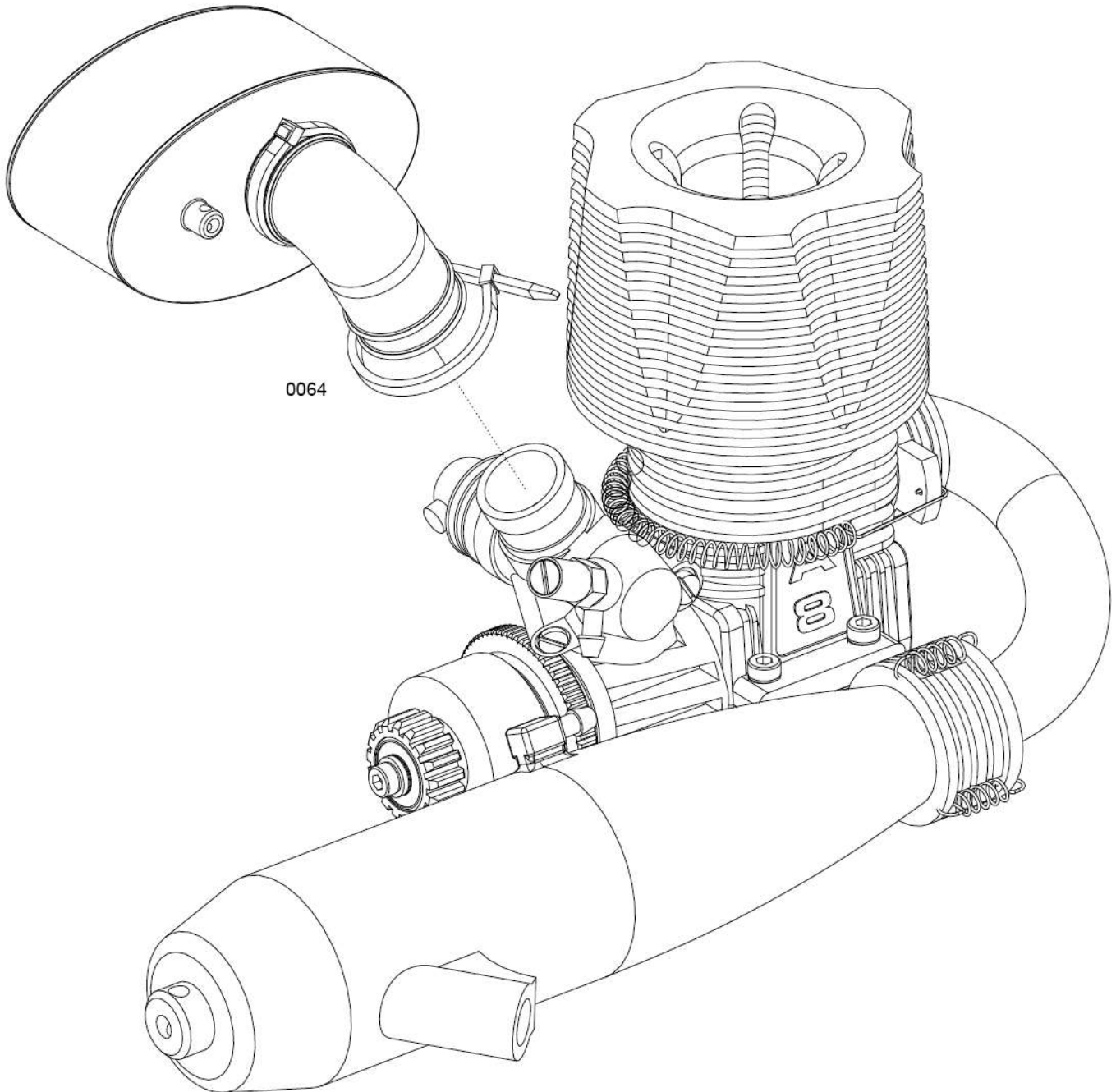
STEP M-1

Air Filter Assembly



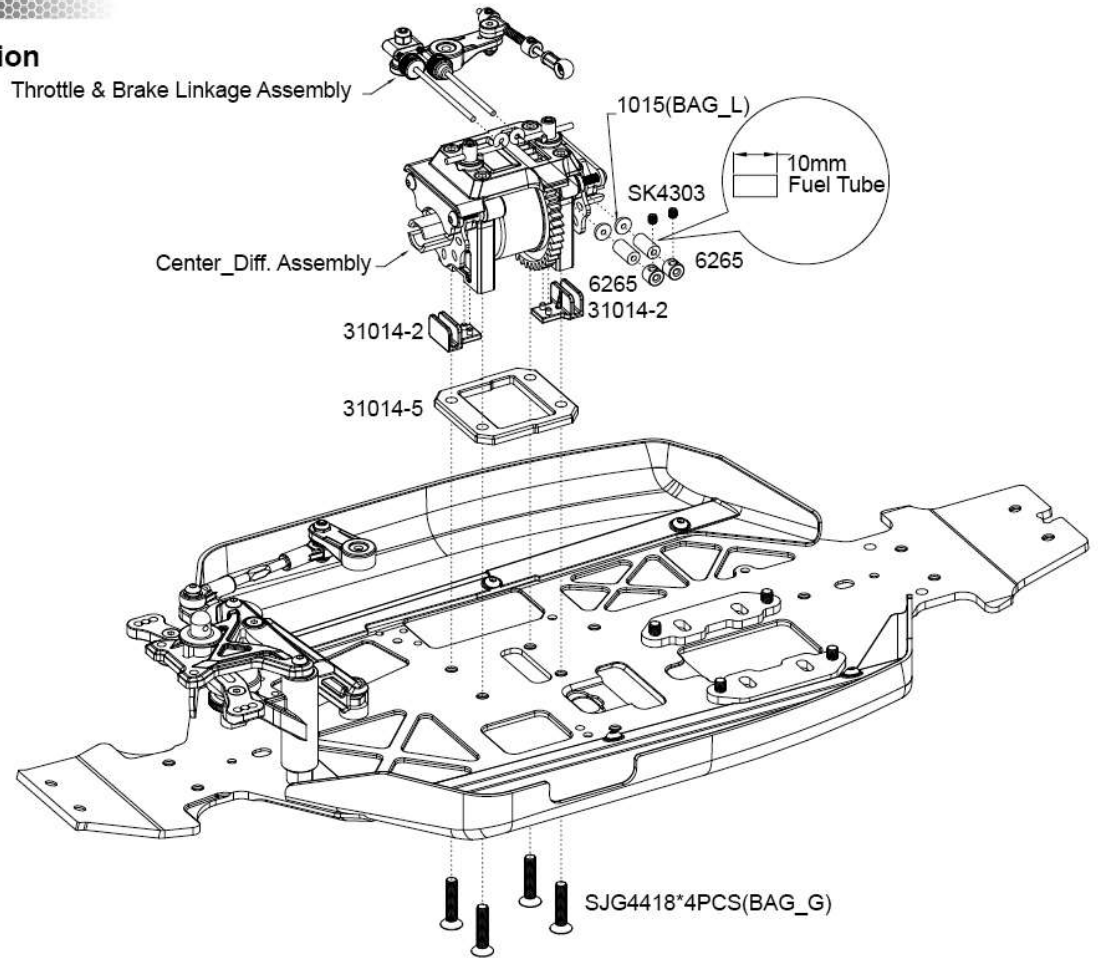
STEP M-2

Air Filter Assembly



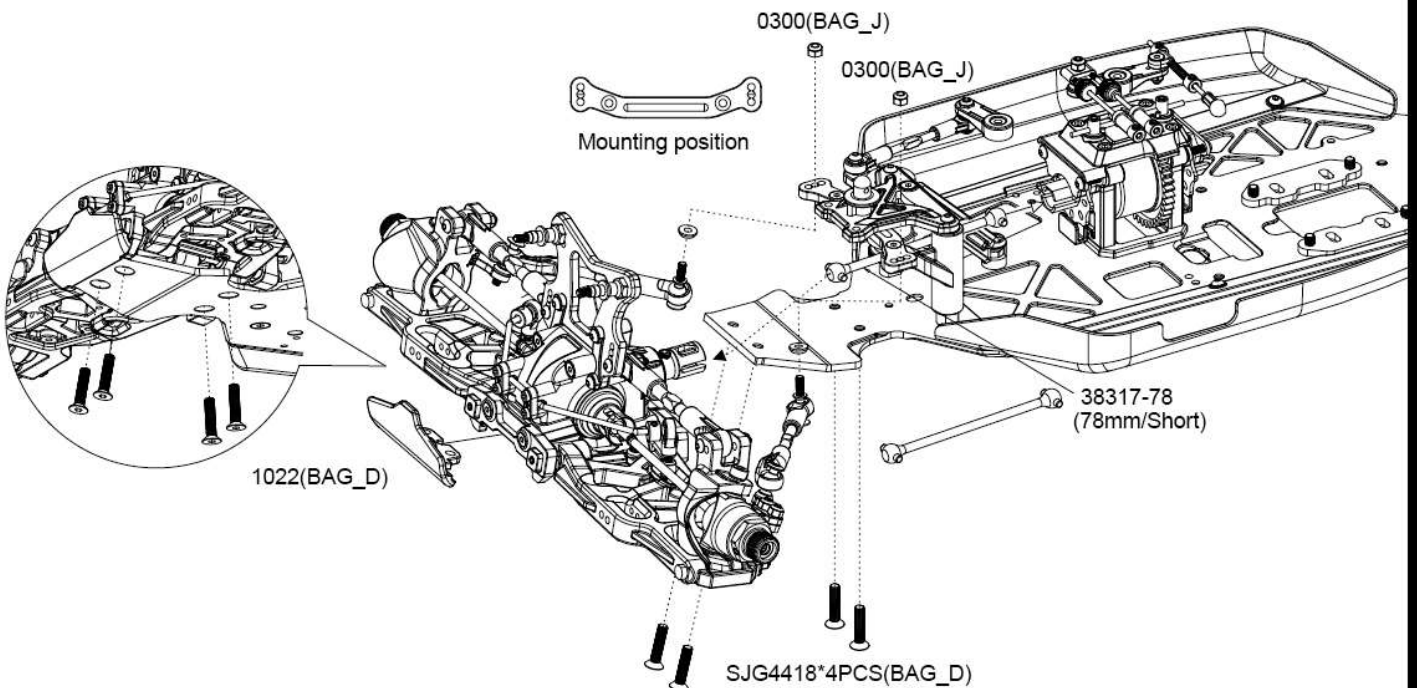
STEP - 1

Center Diff Installation



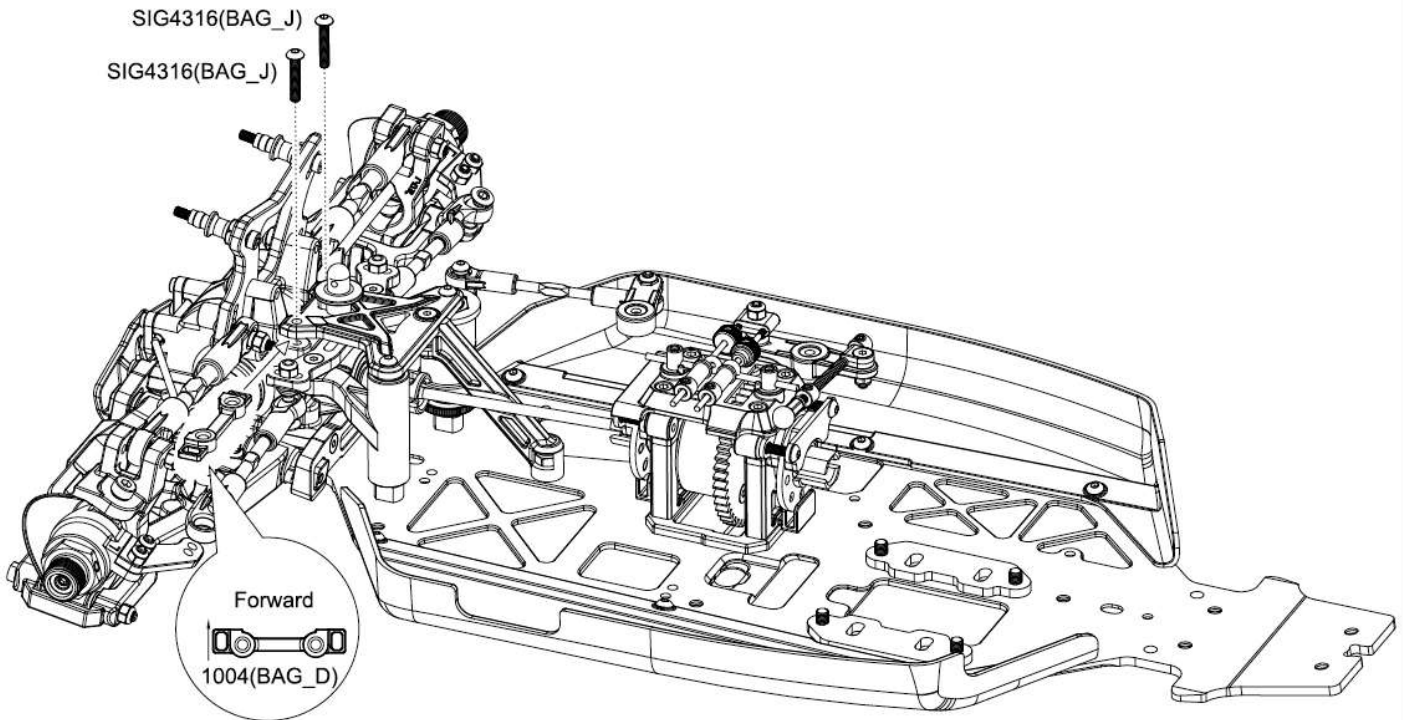
STEP - 2

Front End Installation



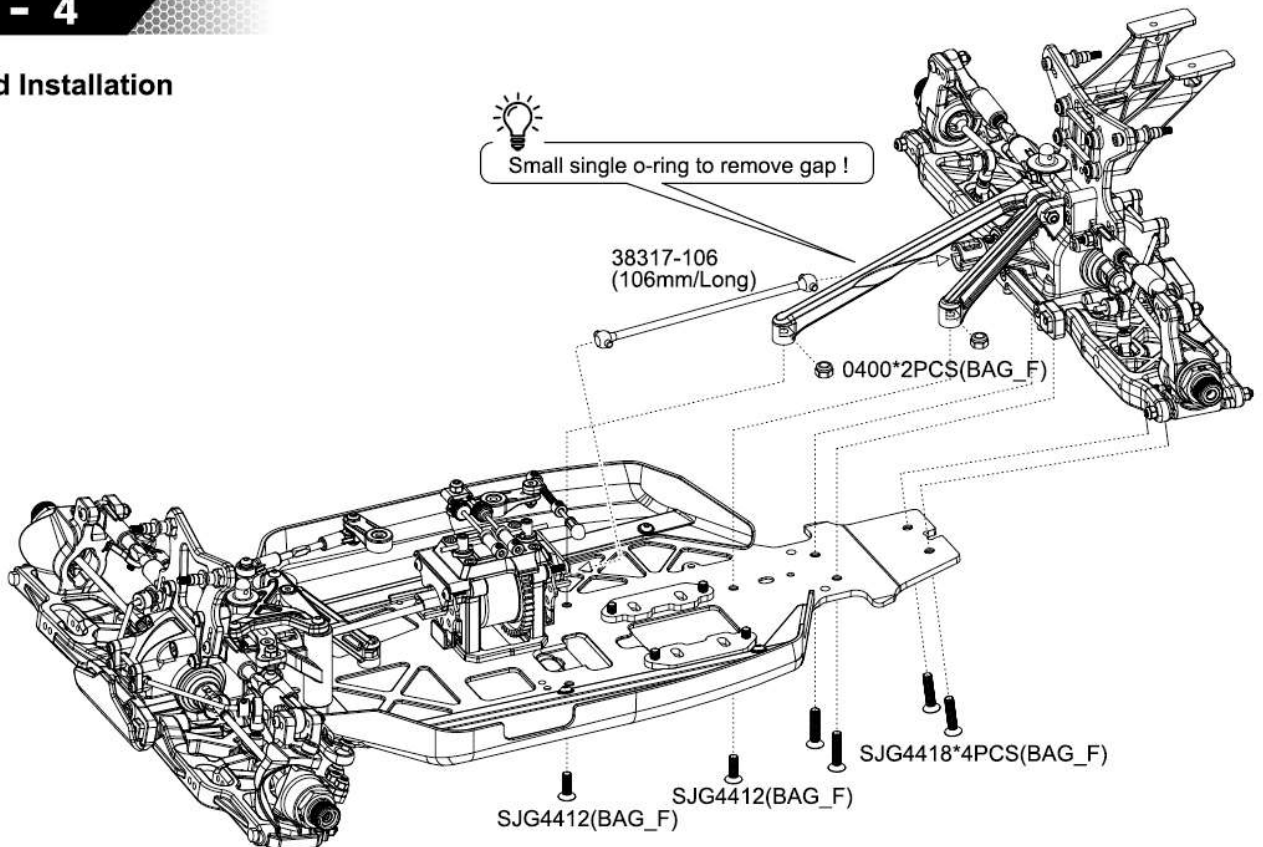
STEP - 3

Front End Installation



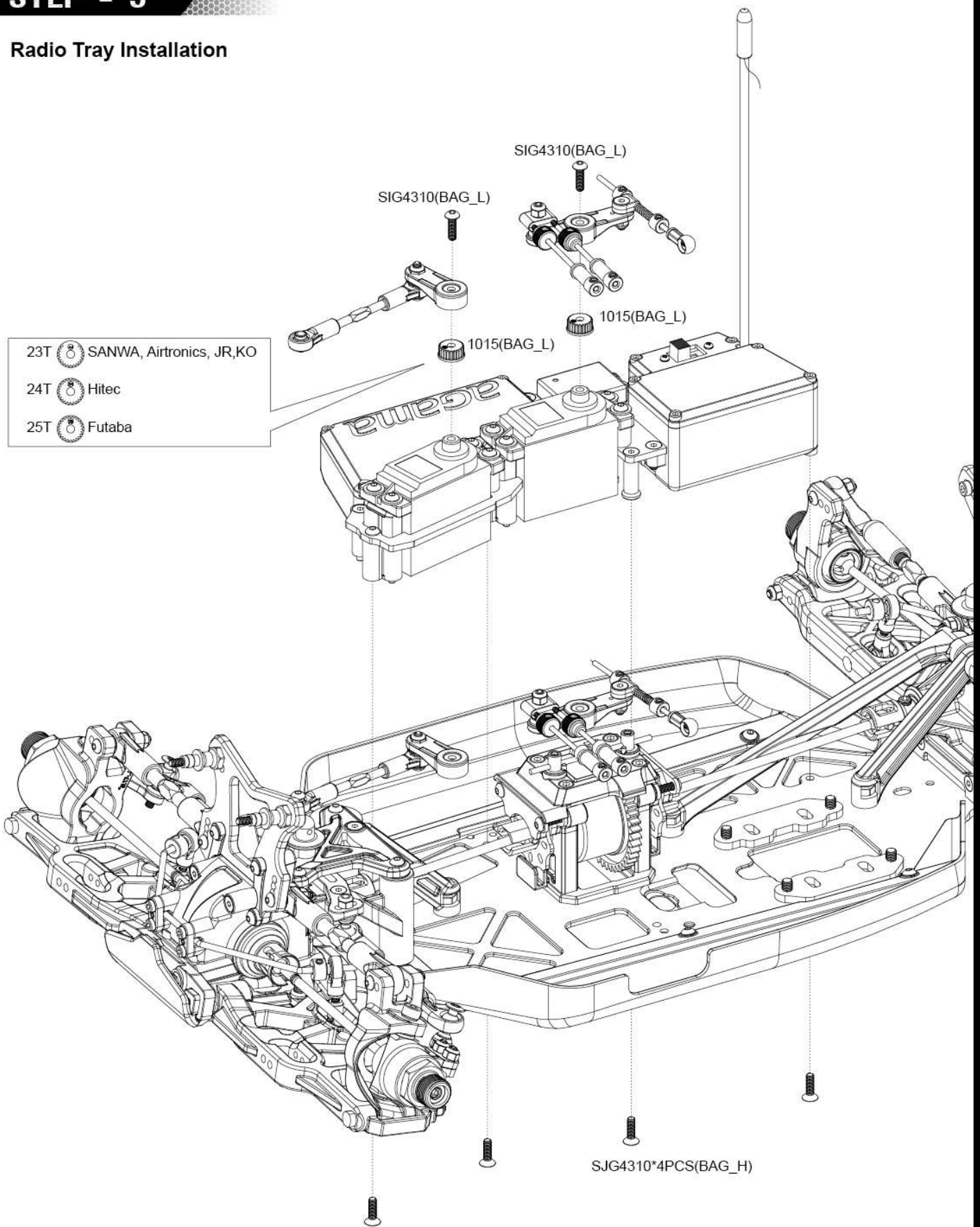
STEP - 4

Rear End Installation



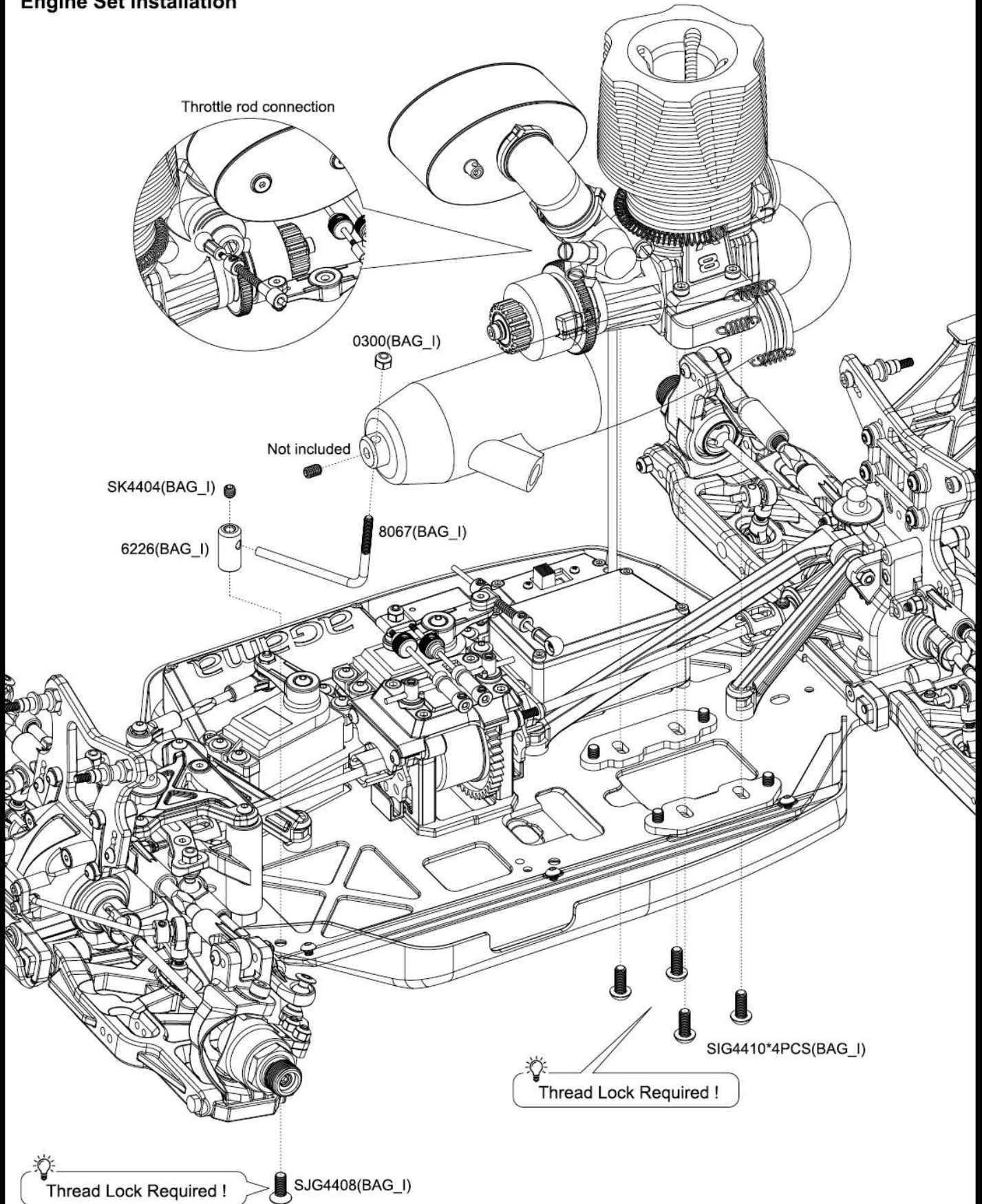
STEP - 5

Radio Tray Installation



STEP - 6

Engine Set Installation

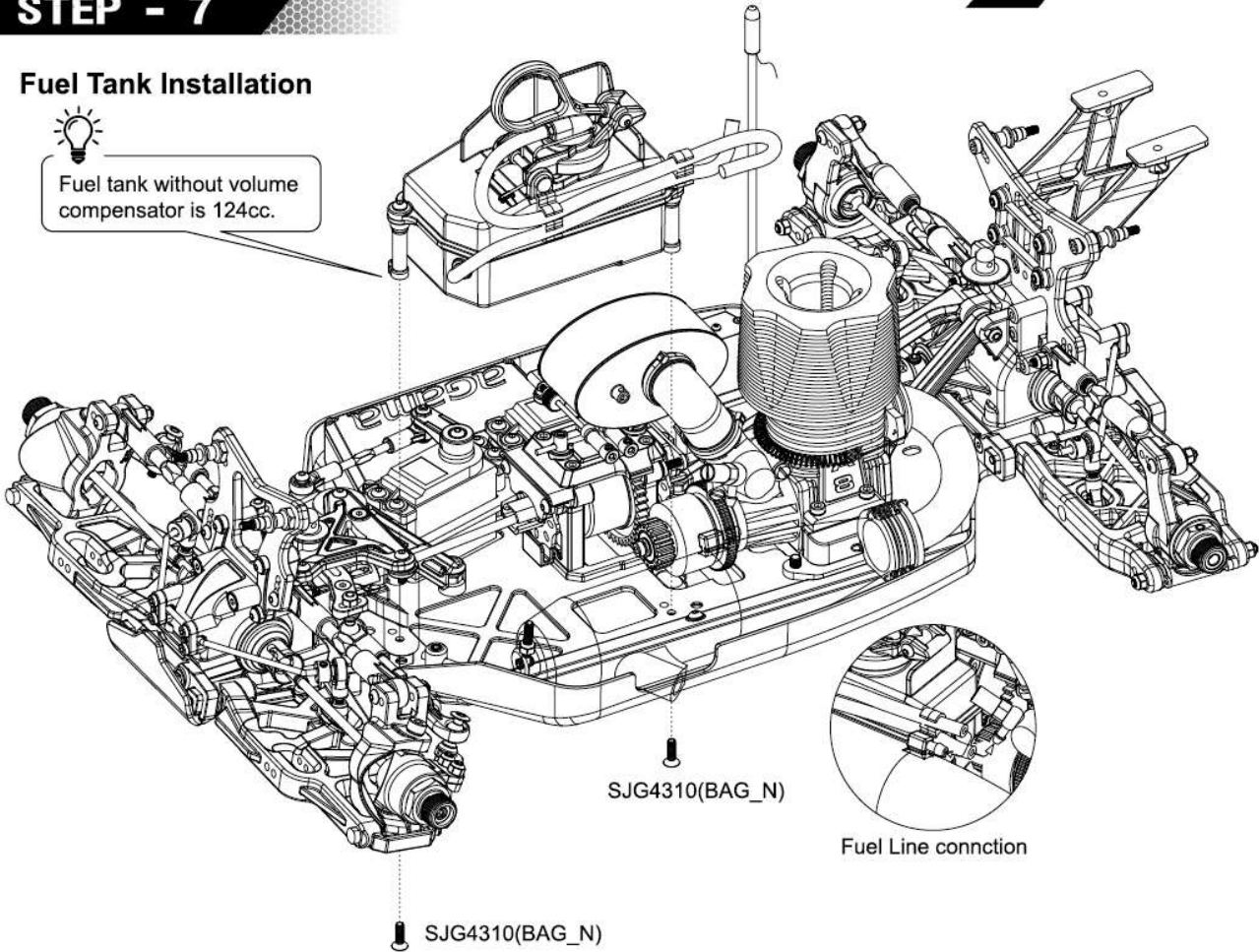


STEP - 7

Fuel Tank Installation

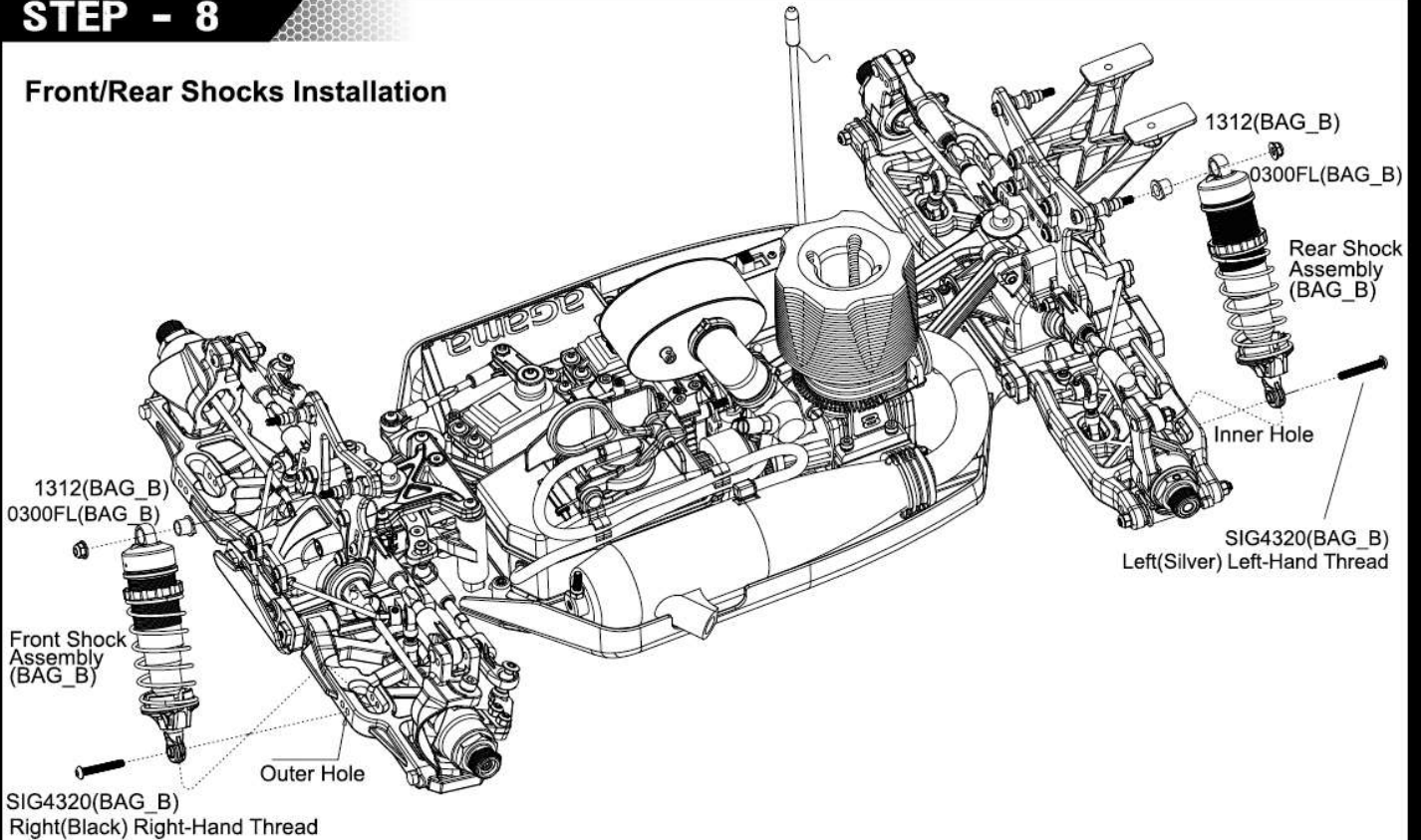


Fuel tank without volume compensator is 124cc.



STEP - 8

Front/Rear Shocks Installation

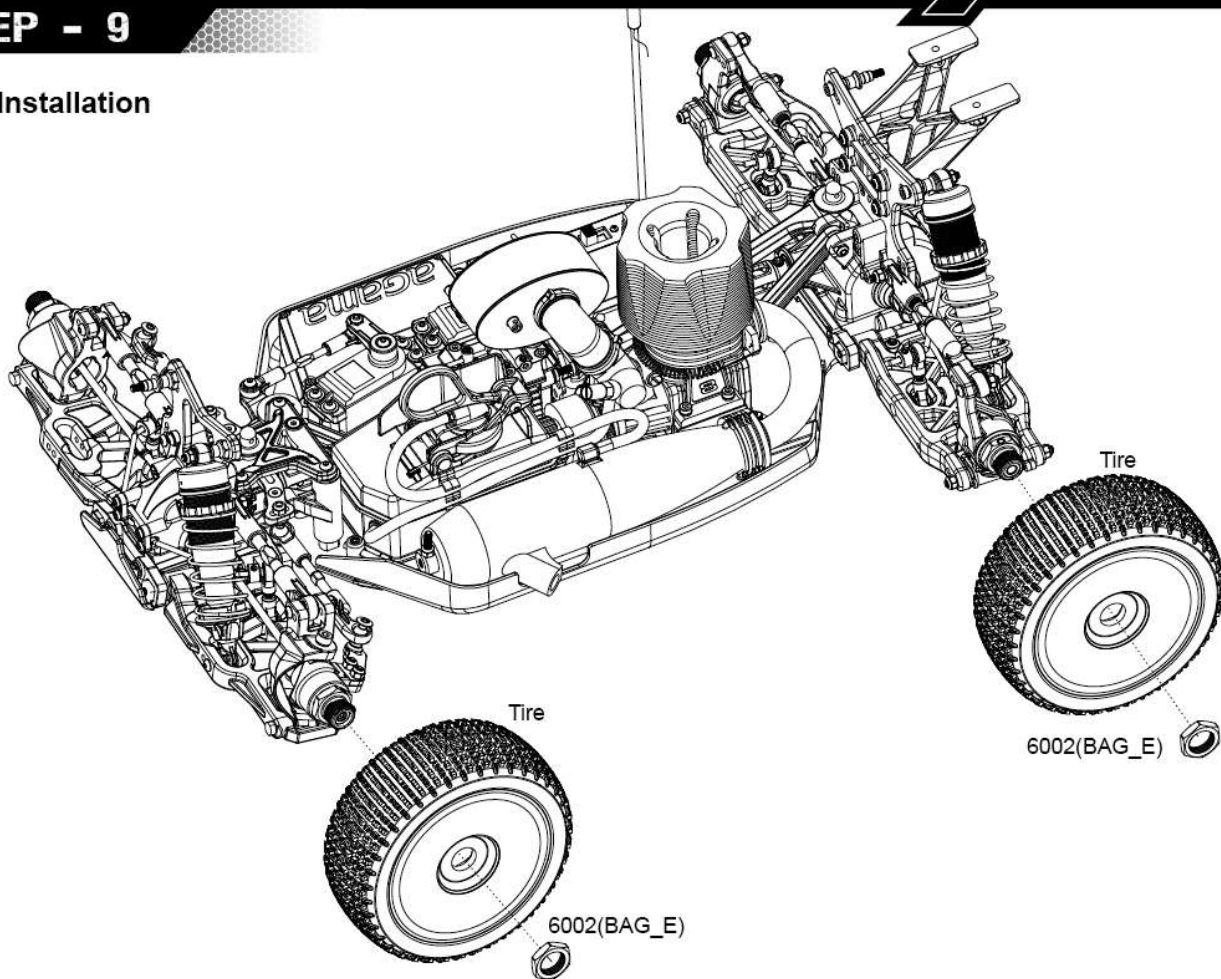


CHASSIS INSTALL

A319

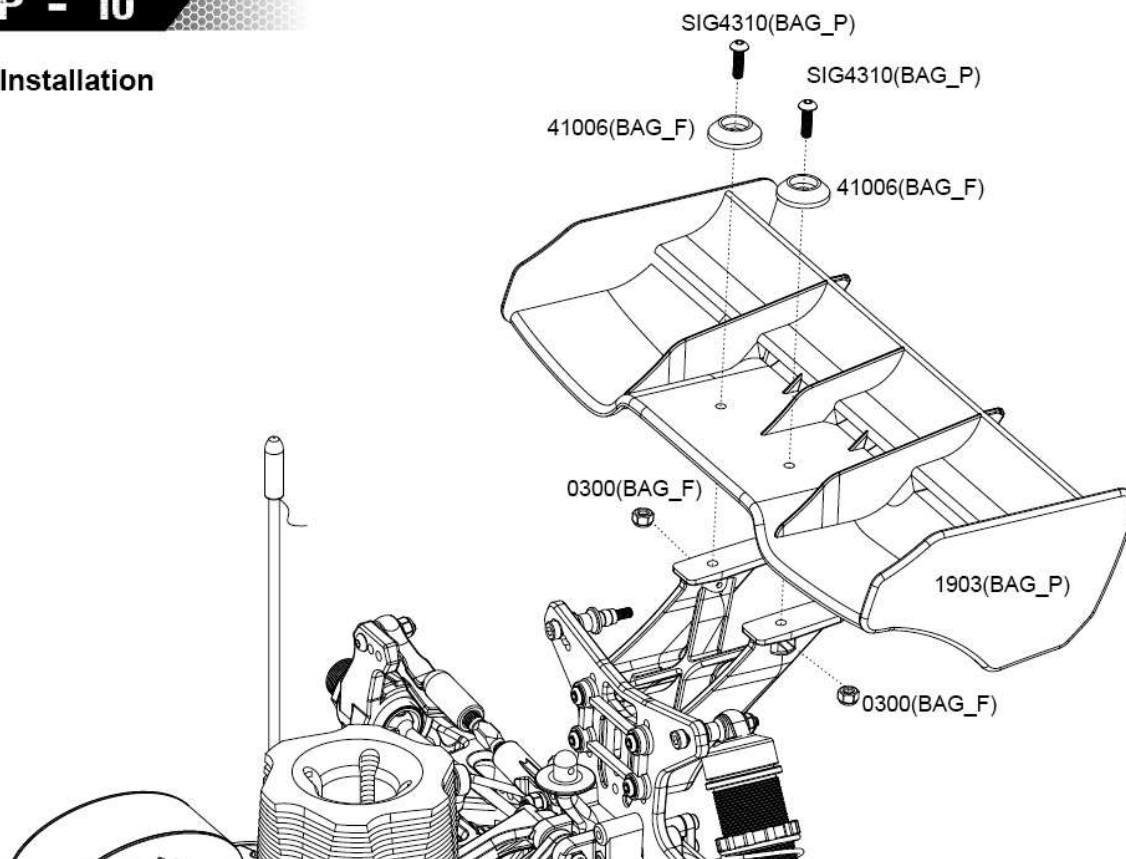
STEP - 9

Tire Installation



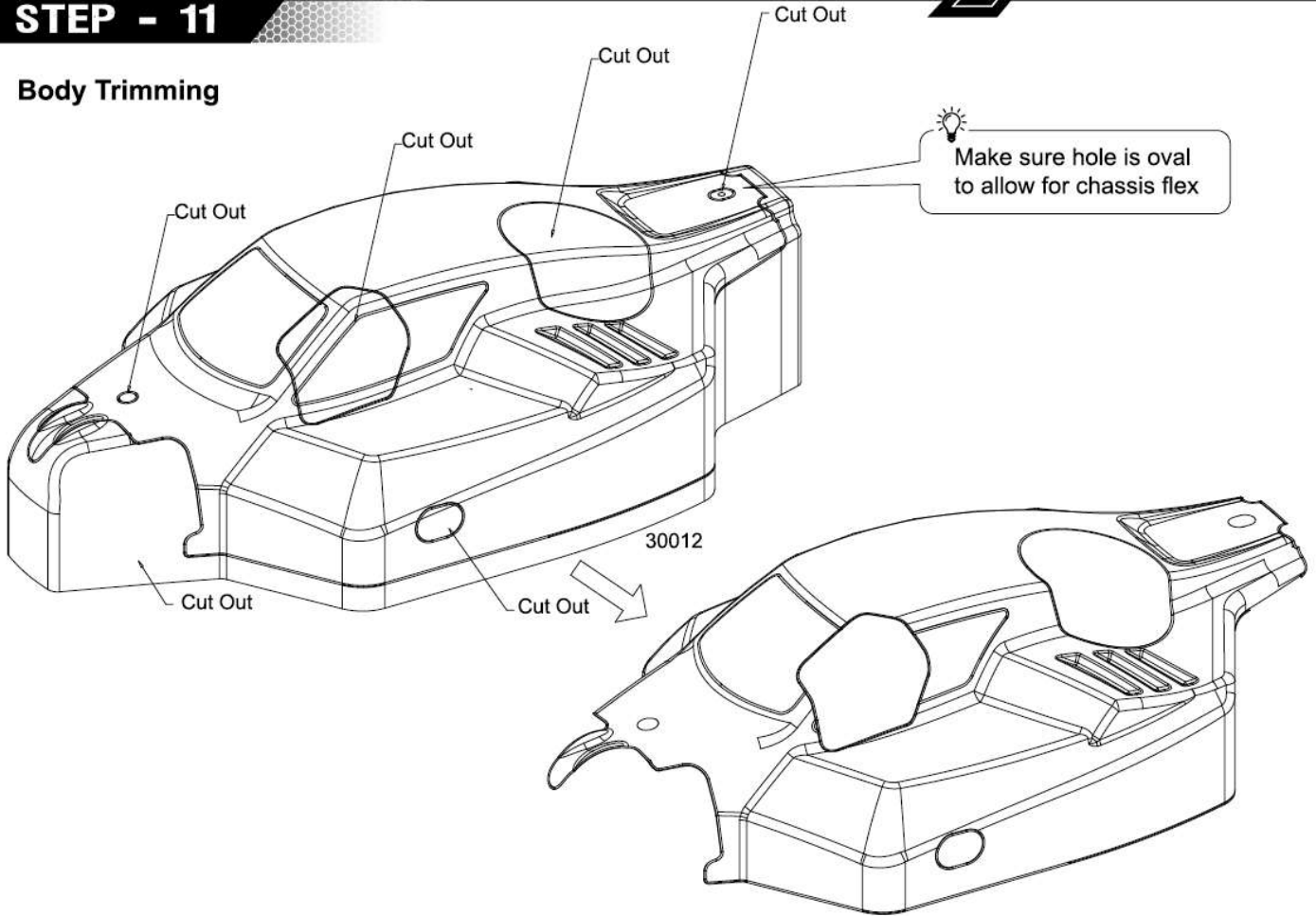
STEP - 10

Wing Installation



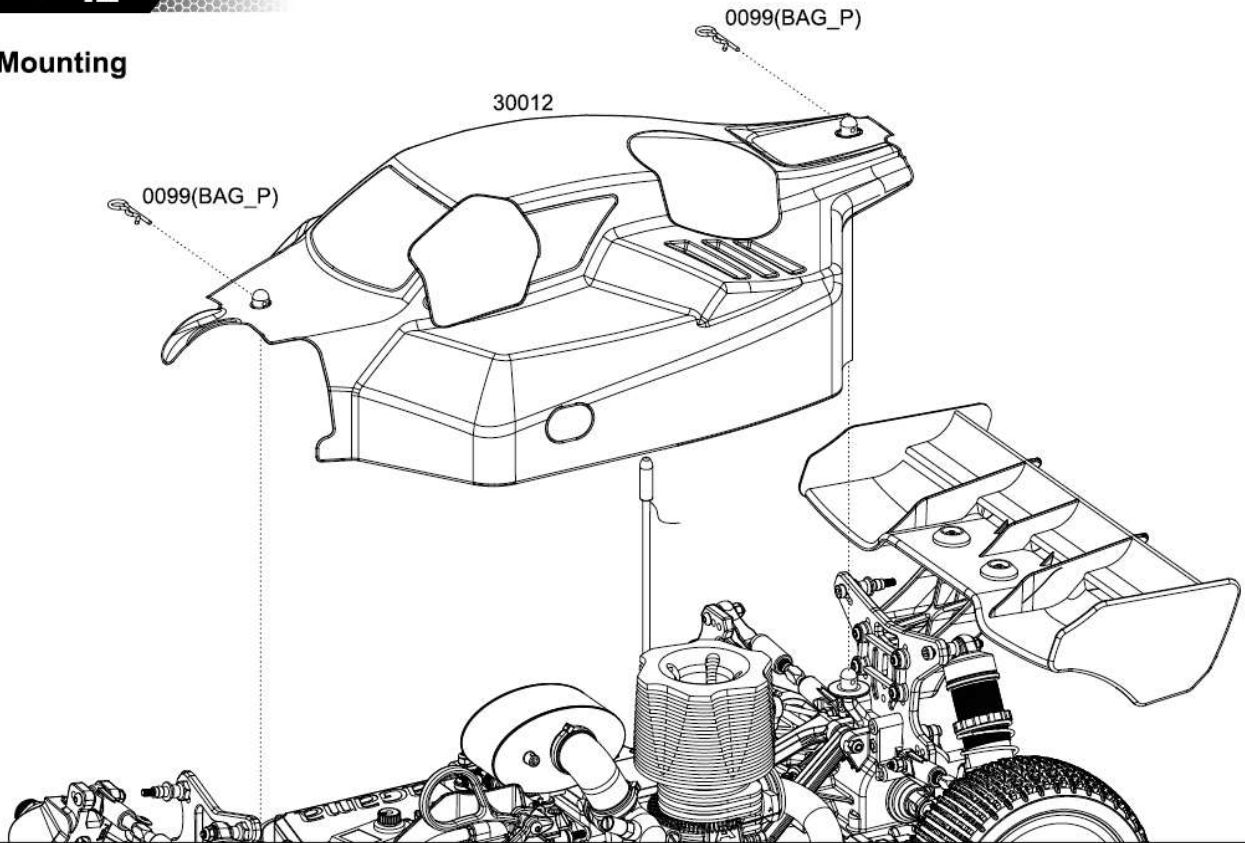
STEP - 11

Body Trimming



STEP - 12

Cover Mounting



DATE _____

DRIVER _____

All Drivers

TRACK _____

Starting Setup A319

TRACK CONDITIONS Indoor Tight Smooth Hard Packed Blue Groove

Wet Low Bite High Bite Outdoor Open Rough Loose/Loamy

Dry Dusty Med Bite Other

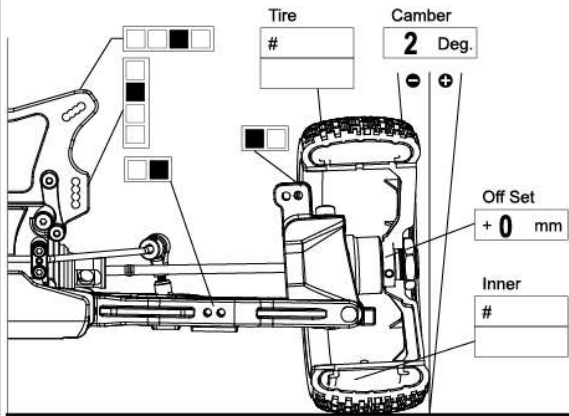
ENGINE BULLITT B-223 Gasket Stock mm Plug BULLITT P3 Muffler BULLITT B-2091 Fuel PRF 25%

Clutch bell 16T 17T 18T Other 13 T Shoes 3 4 Spring 1.0 mm

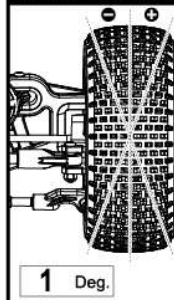
DIFF Front 10,000 Oil # BETA Center 5,000 Oil # BETA Rear 5,000 Oil # BETA

39 T x 12 T Spur gear 48 T 39 T x 12 T

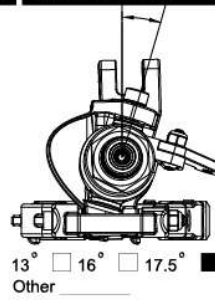
FRONT SUSPENSION



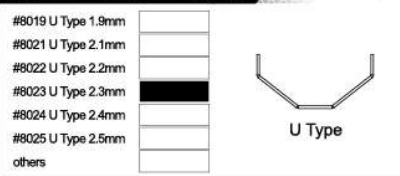
FRONT TOE ANGLE



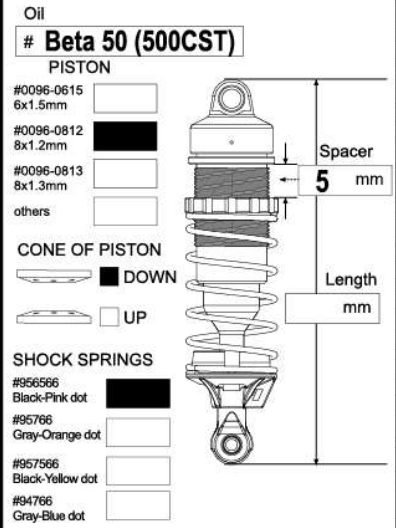
CASTER ANGLE



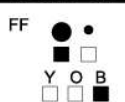
ANTI ROLL BAR



FRONT SHOCK



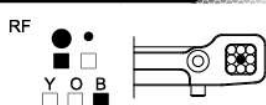
KICK UP



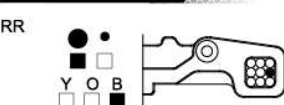
TOE ANGLE



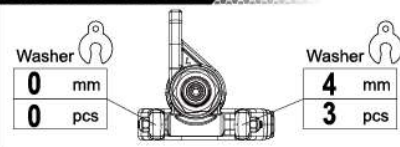
ANTI SQUAT



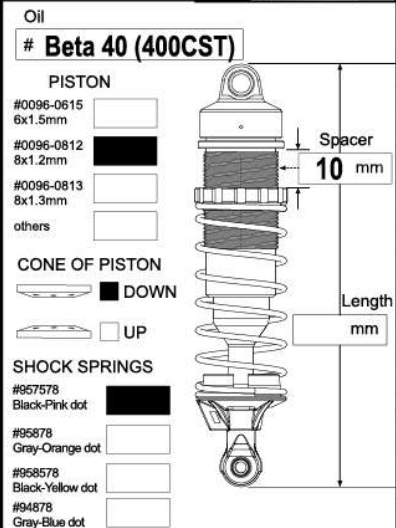
TOE ANGLE



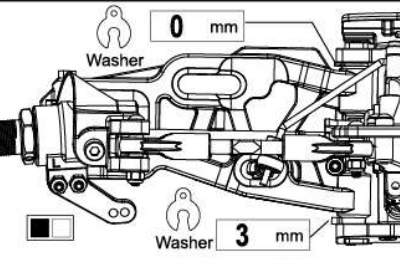
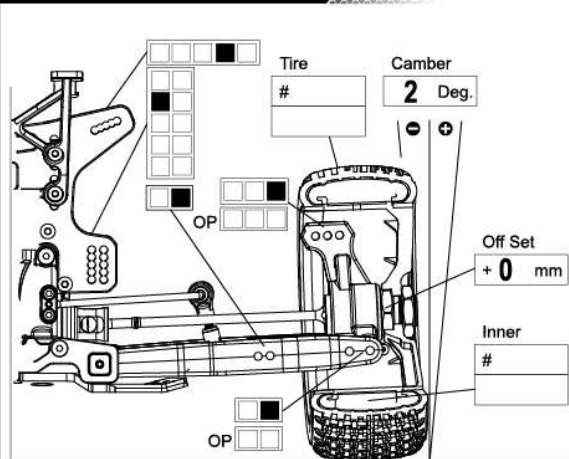
WHEEL BASE



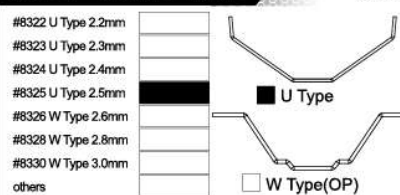
REAR SHOCK



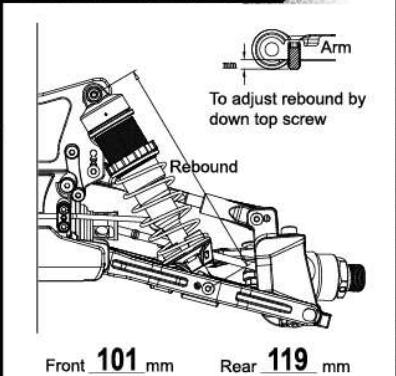
REAR SUSPENSION



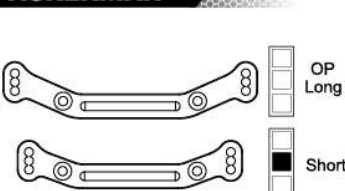
ANTI ROLL BAR



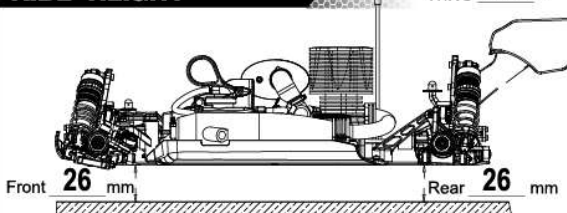
DROOP LIMITER



ACKERMAN



RIDE HEIGHT



DATE _____

DRIVER _____

TRACK _____

TRACK CONDITIONS

Indoor Tight Smooth Hard Packed Blue Groove

Wet Low Bite High Bite Outdoor Open Rough Loose/Loamy

Dry Dusty Med Bite Other _____

ENGINE

Gasket _____ mm Plug _____ Muffler _____ Fuel _____

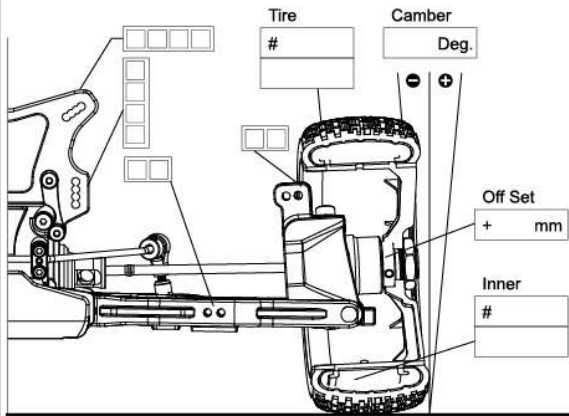
Clutch bell 16T 17T 18T Other _____ T Shoes 3 4 Spring _____ mm

DIFF

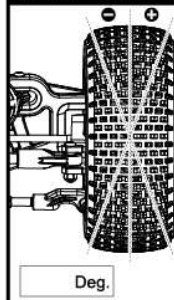
Front _____ Oil # _____ Center _____ Oil # _____ Rear _____ Oil # _____

T x T _____ Spur gear _____ T _____ T x T _____

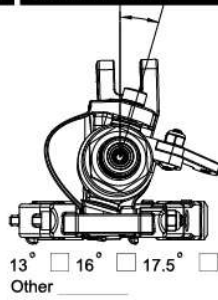
FRONT SUSPENSION



FRONT TOE ANGLE



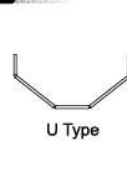
CASTER ANGLE



ANTI ROLL BAR

- #8019 U Type 1.9mm
- #8021 U Type 2.1mm
- #8022 U Type 2.2mm
- #8023 U Type 2.3mm
- #8024 U Type 2.4mm
- #8025 U Type 2.5mm
- others _____

FRONT



FRONT SHOCK

Oil # _____

PISTON

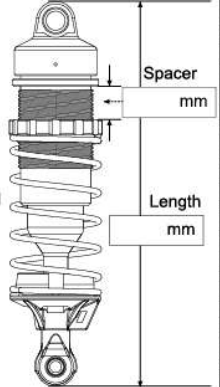
- #0096-0615 6x1.5mm
- #0096-0812 8x1.2mm
- #0096-0813 8x1.3mm
- others _____

CONE OF PISTON

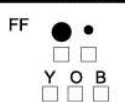
DOWN UP

SHOCK SPRINGS

- #95656 Black-Pink dot
- #95766 Gray-Orange dot
- #95756 Black-Yellow dot
- #94766 Gray-Blue dot



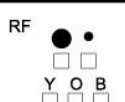
KICK UP



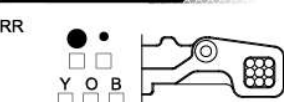
TOE ANGLE



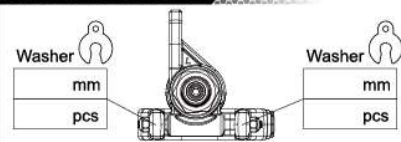
ANTI SQUAT



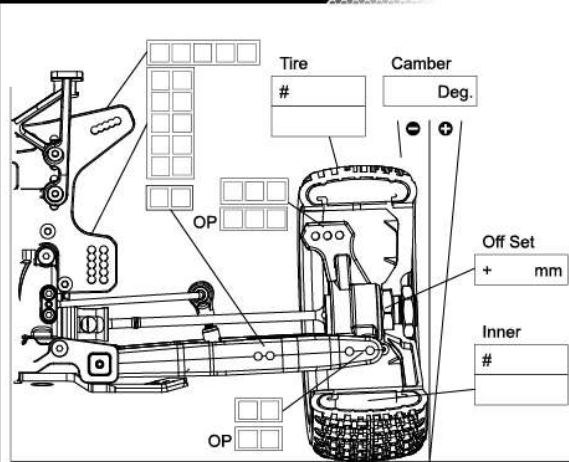
TOE ANGLE



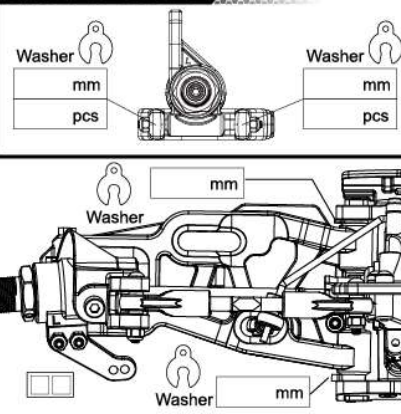
WHEEL BASE



REAR SUSPENSION



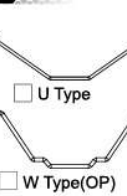
WHEEL BASE



ANTI ROLL BAR

- #8322 U Type 2.2mm
- #8323 U Type 2.3mm
- #8324 U Type 2.4mm
- #8325 U Type 2.5mm
- #8326 W Type 2.6mm
- #8328 W Type 2.8mm
- #8330 W Type 3.0mm
- others _____

REAR



REAR SHOCK

Oil # _____

PISTON

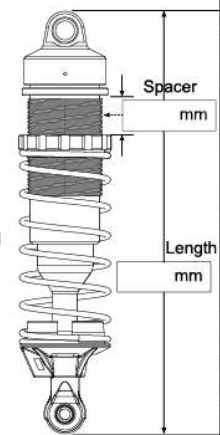
- #0096-0615 6x1.5mm
- #0096-0812 8x1.2mm
- #0096-0813 8x1.3mm
- others _____

CONE OF PISTON

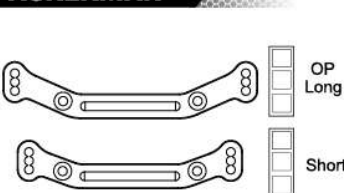
DOWN UP

SHOCK SPRINGS

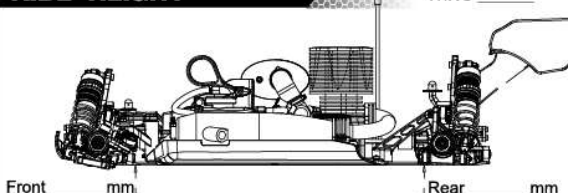
- #95757 Black-Pink dot
- #95878 Gray-Orange dot
- #95857 Black-Yellow dot
- #94878 Gray-Blue dot



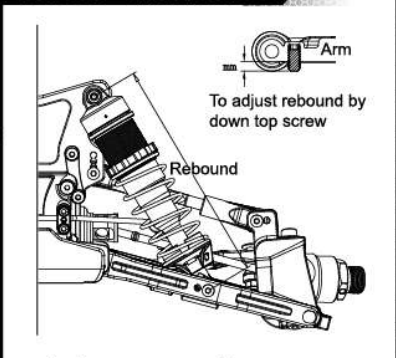
ACKERMAN



RIDE HEIGHT



DROOP LIMITER



MEMO



A series of horizontal dashed lines for writing, spanning the width of the page below the header.

A319



**1/8 SCALE 4WD NITRO
OFFROAD BUGGY**

U.J. ENTERPRISE CO., LTD.
E-mail: contact@agama-rc.com