

# **GATERUNNER**

PERFORMANCE IFS WITH TRAILING ARM SUSPENSION



1:10 SCALE OFF-ROAD TRUCK KIT  
**2WD PRE-RUNNER ECTO**

## **BUILDER'S INSTRUCTION MANUAL**



#40144

*Contains the essential information you need to repair and maintain your Gaterunner*



**Associated Electrics, Inc.**  
**21062 Bake Parkway.**  
**Lake Forest, CA 92630**

**Customer Service**  
**Tel: 949.544.7500**  
**Fax: 949.544.7501**

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GREEN SLIME is a Registered Trademark of Associated Electrics, Inc.

## ITEMS NEEDED

The following items are required to build or maintain your Gaterunner vehicle.

- (1) 2-3 Channel radio system
- (1) Electronic Speed Control
- (1) 540 Motor (21.5 Brushless motor recommended)
- (1) Steering Servo
- (1) 2S (7.4V) Shorty LiPo battery
- (1) Compatible Battery Charger
- (1) Polycarbonate paint for body
- Tools for assembly

## OTHER HELPFUL ITEMS

The following items aren't required, but will aid in the building and maintaining of your Gaterunner vehicle.

- Green Slime (#1105) \*Not Included

**Your journey begins here.**



## INTRODUCTION

Thank you for purchasing this Element RC product. This assembly manual contains instructions and tips for building and maintaining your new Enduro chassis. Please take a moment to read through this manual to help familiarize yourself with these steps. We are continually changing and improving our designs; therefore, actual parts may appear slightly different than in the illustrations. New parts will be noted on supplementary sheets located in the appropriate parts bags.

## GATERUNNER

The all-new Element RC Gaterunner brings race-inspired engineering and high-performance desert truck capability to a 1:10 scale 2WD platform built for serious off-road driving. Featuring an all-new Gaterunner design, the truck is built around a hard anodized bronze chassis with a new chassis brace and support system for added strength and rigidity.

The Gaterunner's new independent front suspension is carried over from the proven Team Associated RC10B6 race buggy, delivering precise handling and controlled performance across rough terrain. A new rear axle housing and metal-gear differential provide durability, while the CNC-machined blue anodized aluminum front arm mount and black anodized aluminum front bumper skid plate add strength and style.

An aluminum high-speed center transmission and motor mount provides a solid foundation for efficient power delivery, while the black anodized aluminum front shock tower supports the Factory Team fluid-filled threaded shocks. Heavy-duty links and ball joints are built to handle demanding off-road conditions.

Out back, the GKS rear trailing arm suspension features an anti-roll bar for improved stability and control through high-speed corners and uneven terrain. Fully adjustable suspension allows drivers to tune the Gaterunner to suit different driving styles and terrain conditions.

Full metal ball bearings provide smooth operation and reduced friction throughout the truck. The Gaterunner is designed to accept 2S LiPo shorty battery packs, delivering a compact power solution while helping maintain balanced handling.

From rough desert terrain to high-speed runs, the all-new Element RC Gaterunner combines race-bred suspension technology, premium aluminum components, and rugged 2WD performance.

## FEATURES

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• All-New Gaterunner design with hard anodized bronze chassis</li> <li>• New race inspired independent front suspension</li> <li>• New chassis brace and support system</li> <li>• New rear axle housing</li> <li>• New differential with metal gears</li> <li>• New clear Ecto cab and rear cage body set</li> <li>• New roof-mounted lightbar</li> <li>• New CNC anodized blue aluminum front arm mount</li> <li>• New black steel front bumper skid plate</li> <li>• New aluminum high-speed center transmission and motor mount</li> <li>• New black G10 front shock tower</li> </ul> | <ul style="list-style-type: none"> <li>• Factory Team fluid-filled threaded shocks</li> <li>• Heavy-duty links and ball joints</li> <li>• GKS rear trailing arm suspension with anti-roll bar</li> <li>• Fully adjustable suspension</li> <li>• General Tire Grabber X3 tires</li> <li>• Silver Method beadlock wheels</li> <li>• Full metal ball bearings</li> <li>• Fits 2S LiPo shorty battery packs</li> <li>• Interior and driver figure</li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# HARDWARE 1:1 SCALE VIEW

HARDWARE USED WITH OPTIONAL REPLACEMENT PART NUMBERS

## FLAT HEAD SCREWS (FHCS)

|                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
|  | 2.5x8mm (31472) |
|  | 3x6mm (31541)   |
|  | 3x8mm (25201)   |
|  | 3x10mm (25202)  |
|  | 3x12mm (25203)  |
|  | 3x14mm (89208)  |
|  | 3x20mm (89210)  |
|  | 3x24mm (89233)  |

## SOCKET HEAD SCREWS (SHCS)

|                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|
|    | 2x6mm          |
|  | 2x8mm (7187)   |
|  | 2.5x14 (71032) |
|  | 2.5x16 (41086) |
|  | 3x18 (25191)   |

## LP SOCKET HEAD SCREWS (LP SHCS)

|                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|
|  | 3x6mm (41089)  |
|  | 3x10mm (41090) |
|  | 3x20mm (41091) |

## SET SCREWS

|                                                                                    |               |
|------------------------------------------------------------------------------------|---------------|
|  | 3x3mm (25225) |
|  | 3x10mm (4671) |
|  | 3x16mm (4689) |
|  | 4x8mm         |

## PIVOT BALLS

|                                                                                    |                                                                       |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|  | Pivot Ball, 6mm (42041)<br>FT Pivot Ball, 6mm (42056)                 |
|  | Pivot Ball, Upper Shock (42041)<br>FT Pivot Ball, Upper Shock (42055) |

## BUTTON HEAD SCREWS (BHCS)

|                                                                                   |                  |
|-----------------------------------------------------------------------------------|------------------|
|  | 2x4mm (31510)    |
|  | 2.5x6mm (31520)  |
|  | 2.5x10mm (41088) |
|  | 2.5x16mm         |
|  | 3x6mm (31531)    |
|  | 3x8mm (31532)    |
|  | 3x10mm (25211)   |
|  | 3x12mm (89202)   |
|  | 3x14mm (25187)   |
|  | 3x18mm (2308)    |

|                                                                                     |                |
|-------------------------------------------------------------------------------------|----------------|
|    | 3x20mm (25188) |
|    | 3x22mm (25189) |
|  | 3x24mm (89204) |
|  | 3x30mm (91478) |

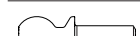
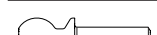
## MISC. SCREWS

|                                                                                     |                   |
|-------------------------------------------------------------------------------------|-------------------|
|  | Screw Pin (42022) |
|-------------------------------------------------------------------------------------|-------------------|

## LOCK NUTS

|                                                                                     |                             |
|-------------------------------------------------------------------------------------|-----------------------------|
|  | M2.5 Locknut (89215)        |
|  | M3 Nuts (91477)             |
|  | M3 Locknuts (25215)         |
|  | Aluminum (31550)            |
|  | M4 Locknut W/Flange (25391) |

## BALLSTUDS

|                                                                                     |                   |
|-------------------------------------------------------------------------------------|-------------------|
|  | 5mm, Long (31283) |
|  | 8mm, Long (31284) |
|  | HD 6mm (91047)    |
|  | HD 8mm (91048)    |
|  | HD 10mm (91049)   |

## SHIMS AND WASHERS

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
|    | 3x7mmx1mm (42260)       |
|    | 3x7mmx2mm (42260)       |
|    | 3x7x3mm (42260)         |
|    | 3x7x5mm (42260)         |
|    | 3x7x7mm (42260)         |
|    | Drive Gear Shim (42027) |
|    | 3x5x0.3mm (31392)       |
|    | 5.5x0.5mm (31381)       |
|   | 5.5x1.0mm (31382)       |
|  | 5.5x2.0mm (31383)       |
|  | 5x8.5x0.20mm (92137)    |
|  | 5x11x0.20mm             |

|                                                                                       |                           |
|---------------------------------------------------------------------------------------|---------------------------|
|  | 10.15x12.5x0.25mm (21141) |
|---------------------------------------------------------------------------------------|---------------------------|

## BEARINGS

|                                                                                       |                    |
|---------------------------------------------------------------------------------------|--------------------|
|  | 4x7x2.5mm (31732)  |
|  | 5x10x4mm (91560)   |
|  | 7x14x3.5mm (91474) |
|  | 10x15x4mm (91563)  |

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| <b>02</b> | INTRODUCTION                    | <b>11</b> | REAR AXLE BUILD (BAG 8)         |
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## USING THIS MANUAL



This symbol indicates a special note or instruction in the manual.

**x2**

This symbol indicates the number of the same part that is required.



This symbol indicates the order within a step to assemble parts.



This symbol indicates a Trail Tip.



This symbol indicates where Black Grease should be applied.



This symbol indicates where Green Slime can be applied.



This symbol indicates where Thread Lock Adhesive should be applied.



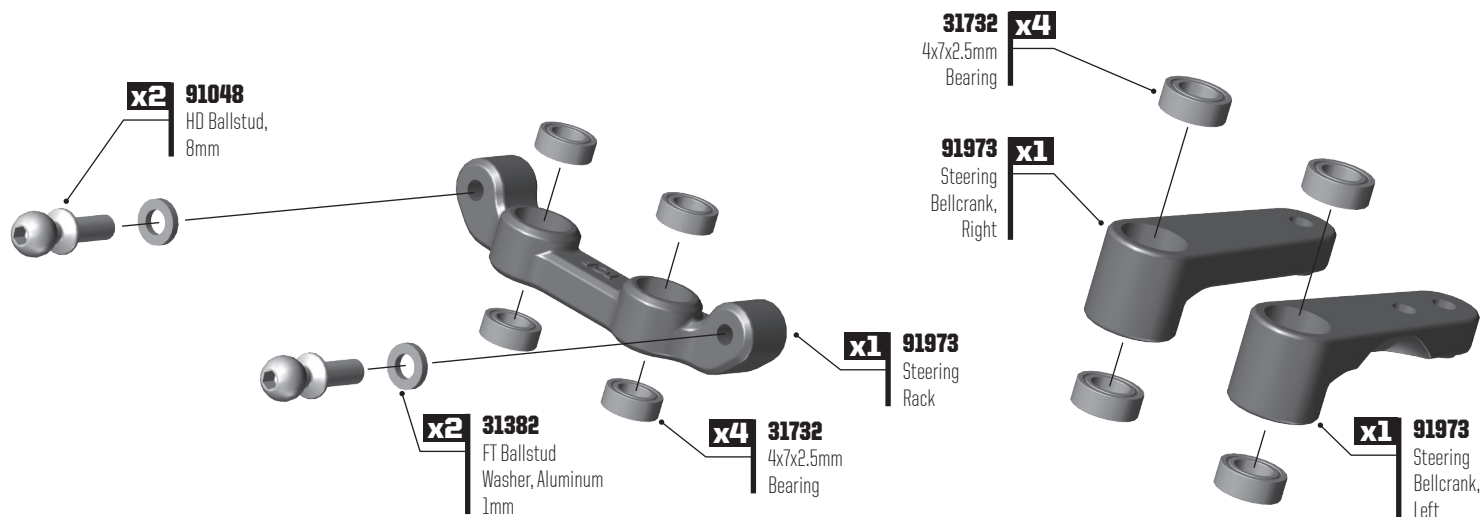
This symbol indicates where Shock Fluid should be applied.



There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.

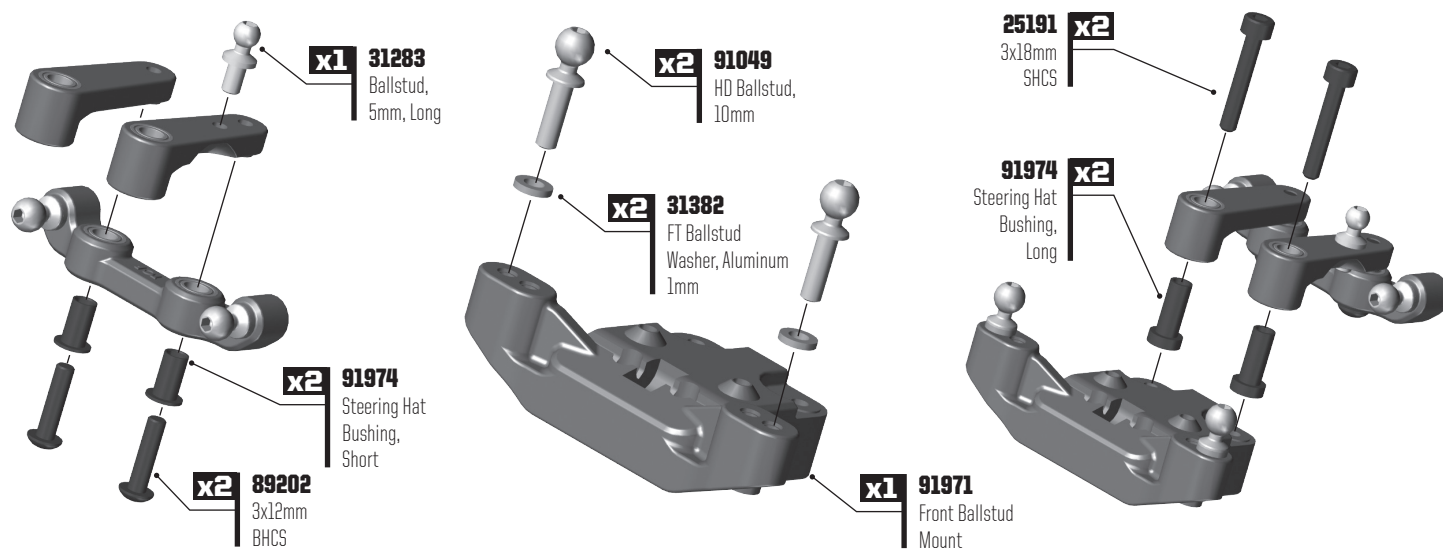
## GATE 01

### STEERING RACK BUILD: BAGS 1



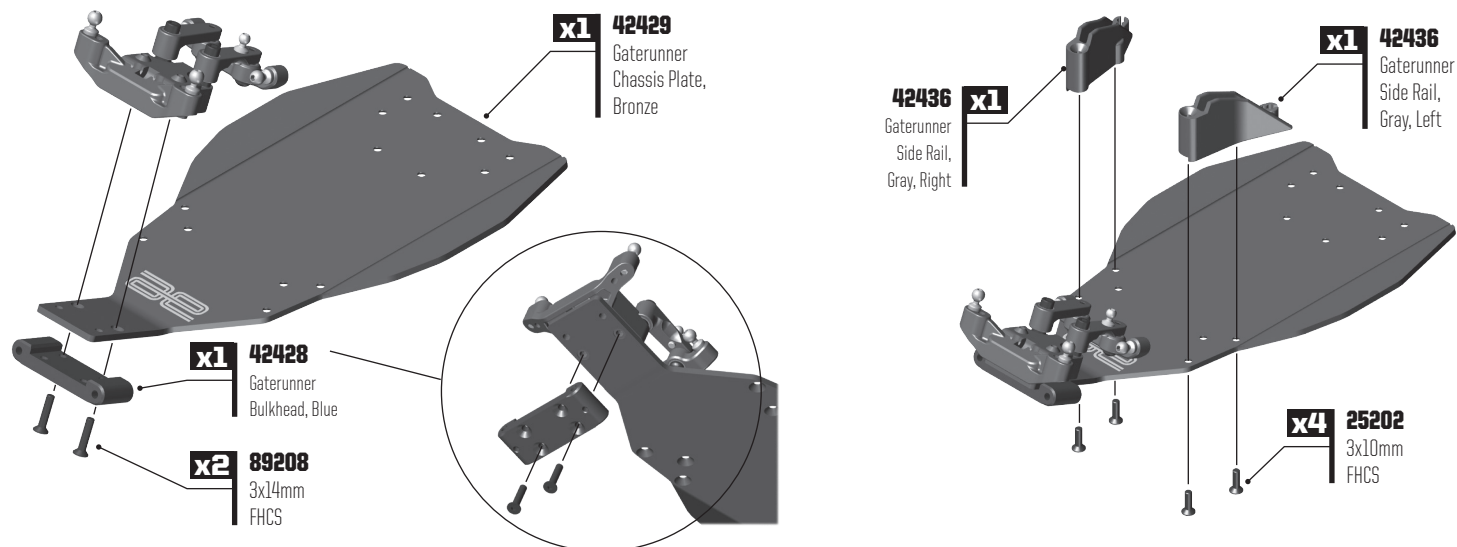
## GATE 02

### STEERING RACK BUILD: BAGS 1



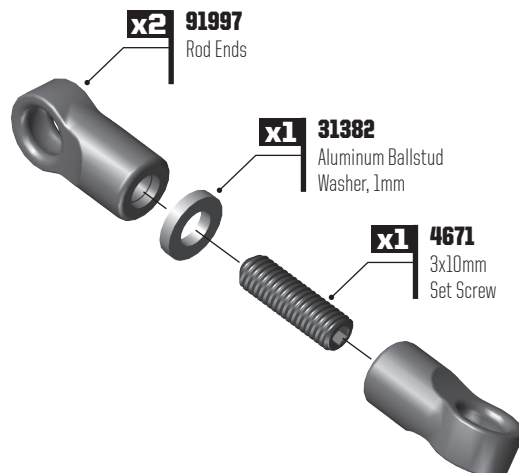
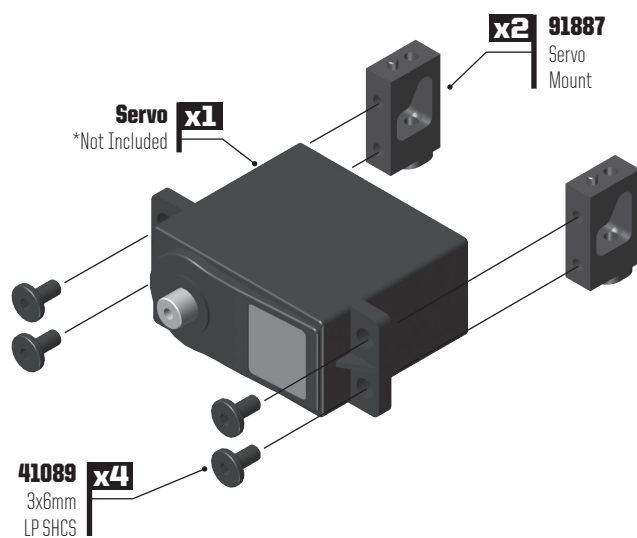
## GATE 01

### FRONT END / SERVO BUILD: BAGS 1, 2



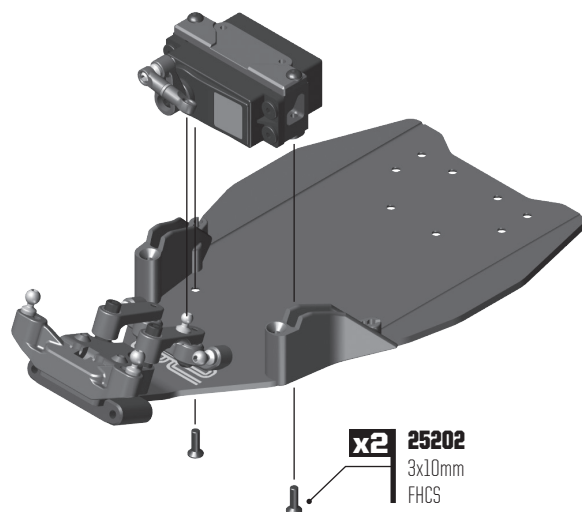
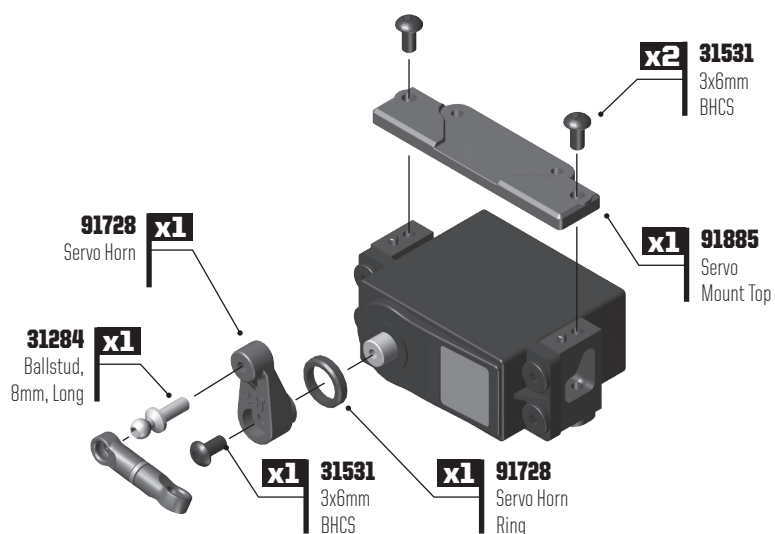
## GATE 02

FRONT END / SERVO BUILD: BAGS 2



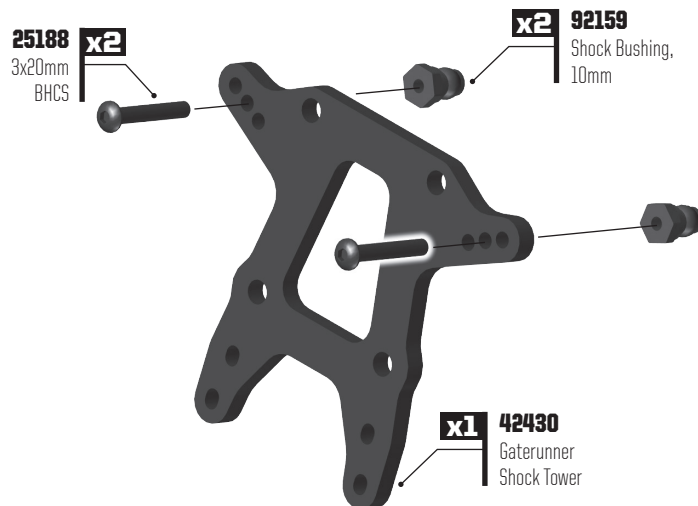
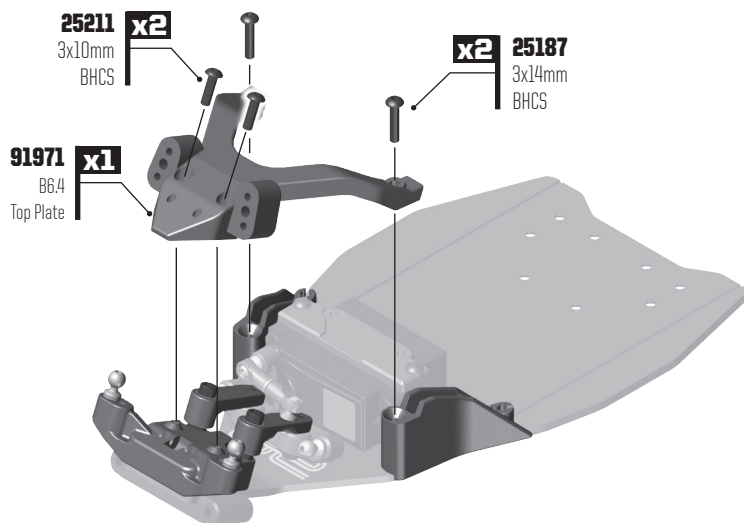
## GATE 03

FRONT END / SERVO BUILD: BAGS 2

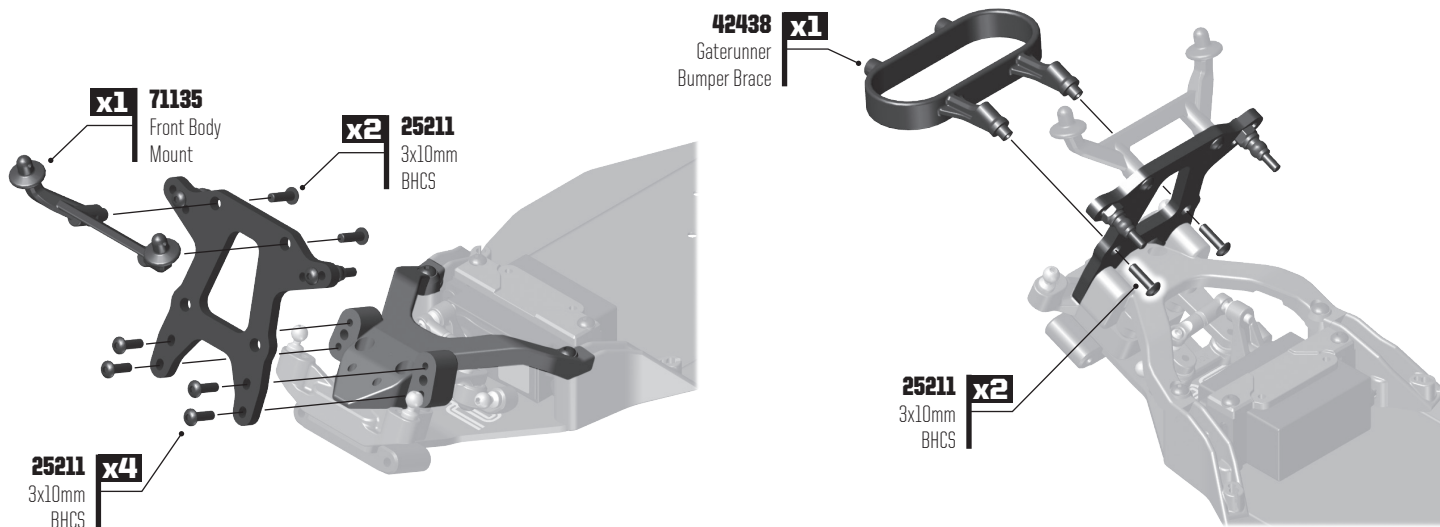


## GATE 04

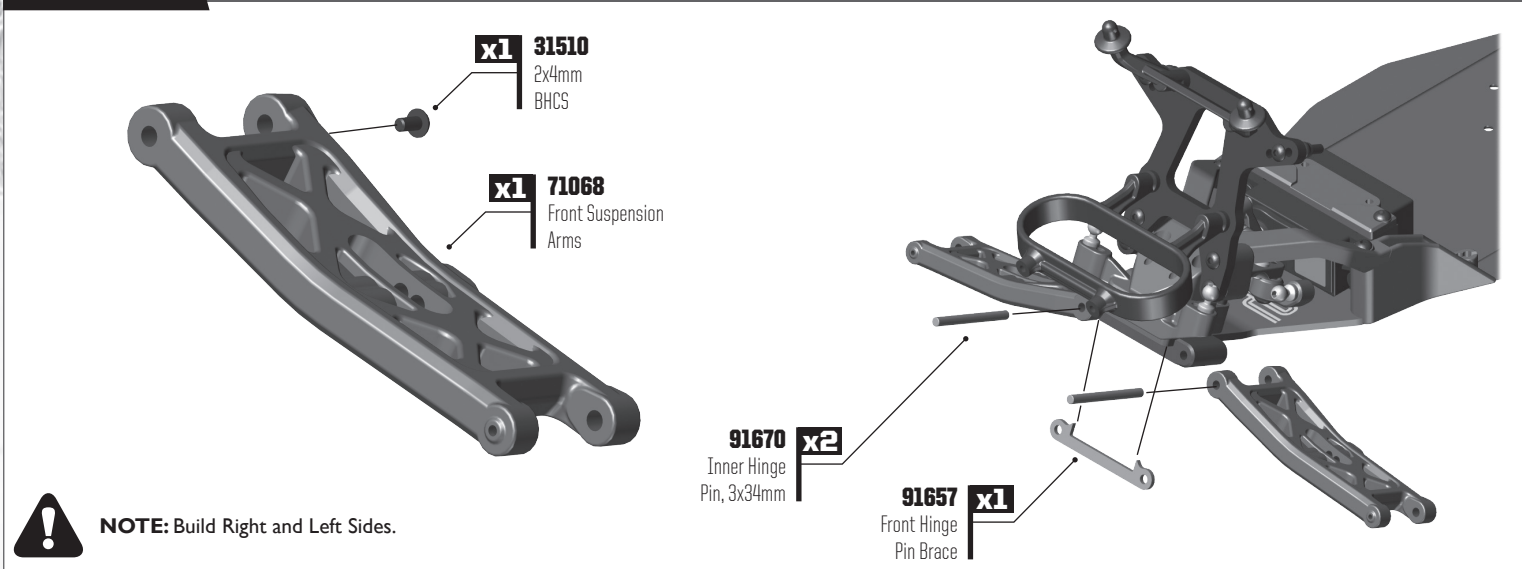
FRONT END / SERVO BUILD: BAGS 2



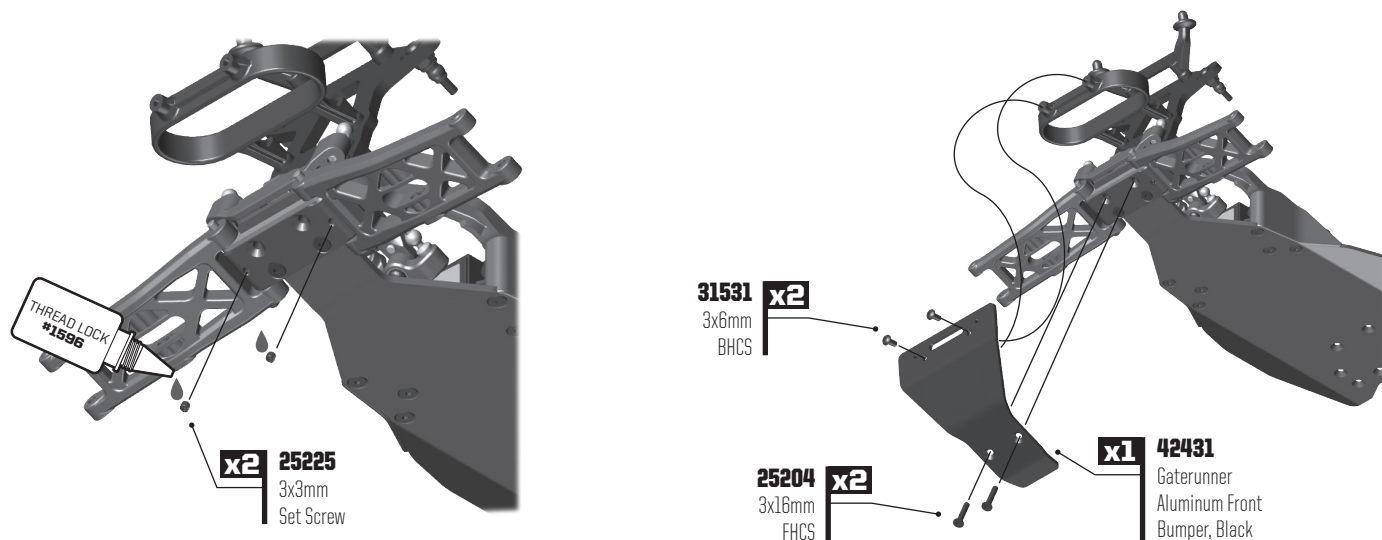
## GATE 05 FRONT END / SERVO BUILD: BAGS 2

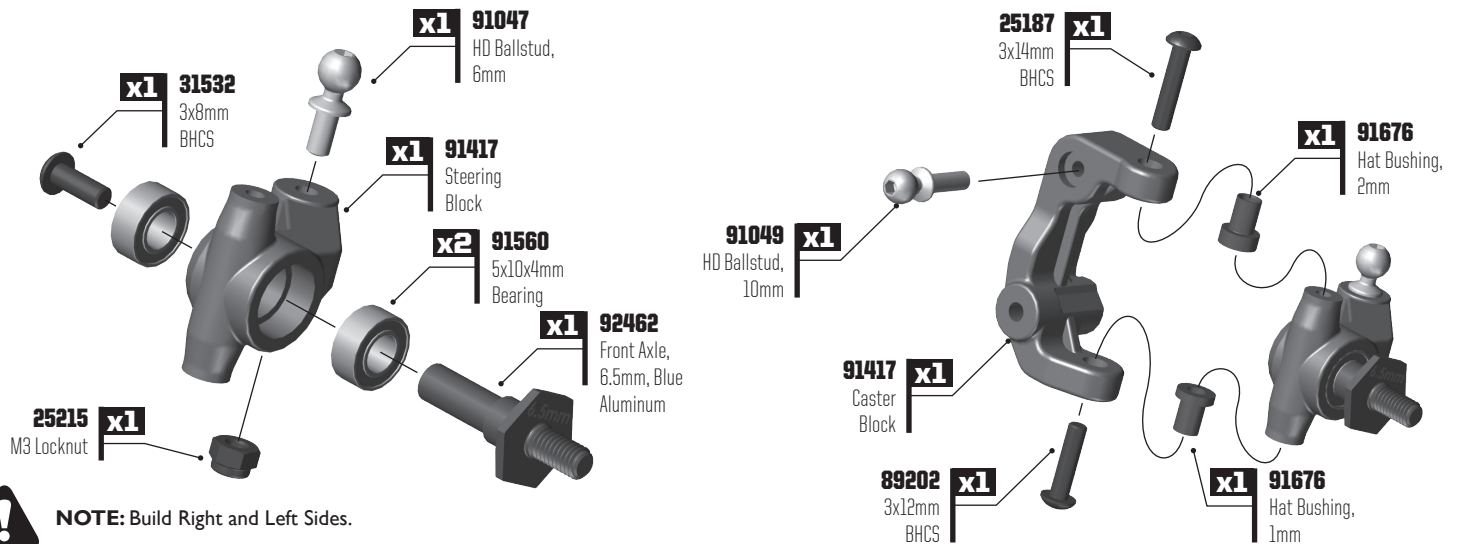
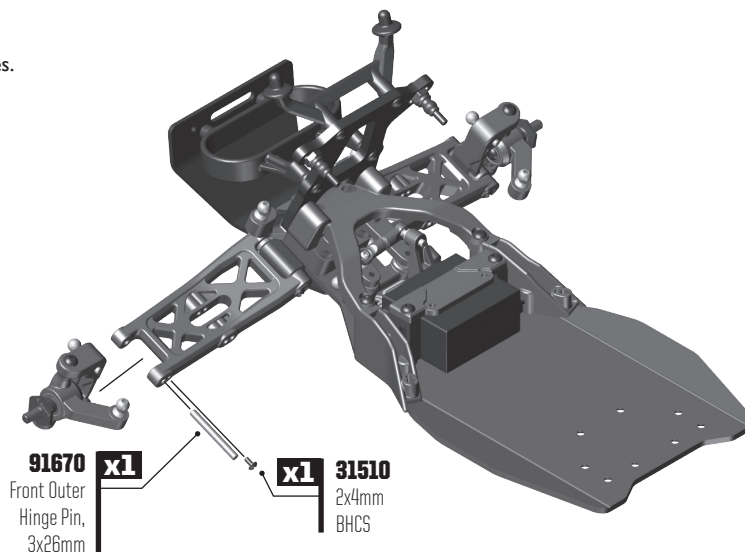
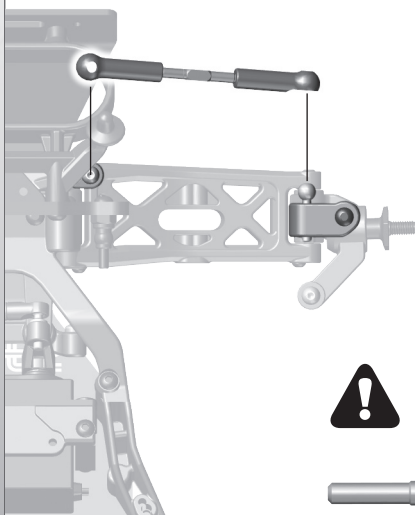


## GATE 06 FRONT END / SERVO BUILD: BAGS 2

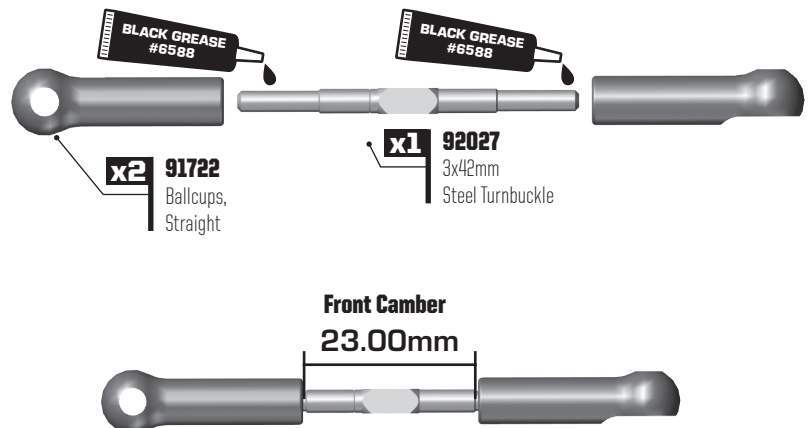


## GATE 07 FRONT END / SERVO BUILD: BAGS 2



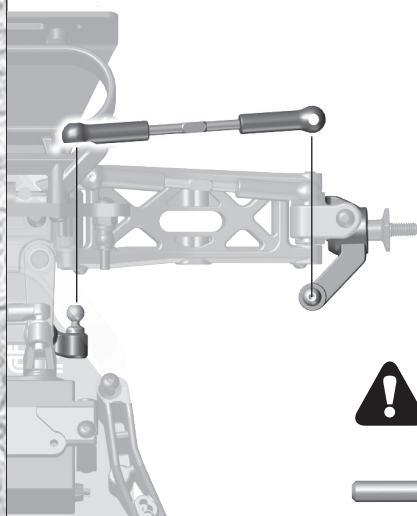
**GATE 01****CASTER / STEERING BUILD: BAG 3****GATE 02****CASTER / STEERING BUILD: BAG 3****NOTE:** Build Right and Left Sides.**GATE 01****TURNBUCKLES BUILD: BAG 4**

**NOTE:** Orient the notch to the left throughout the vehicle. This indicates which end has the left hand threads!

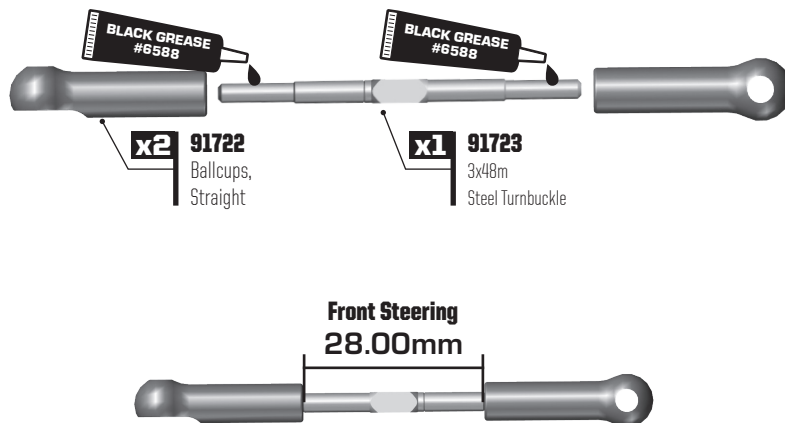
**Build x2 (right and left side)**

## GATE 02

### TURNBUCKLES BUILD: BAG 4



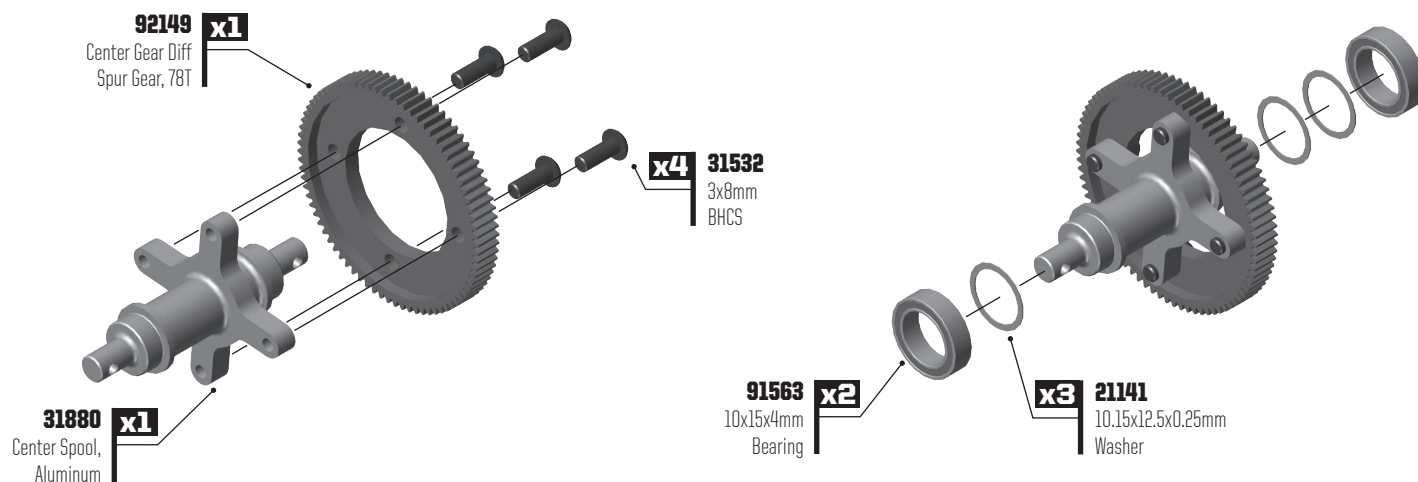
**NOTE:** Orient the notch to the left throughout the vehicle. This indicates which end has the left hand threads!



**Build x2 (right and left side)**

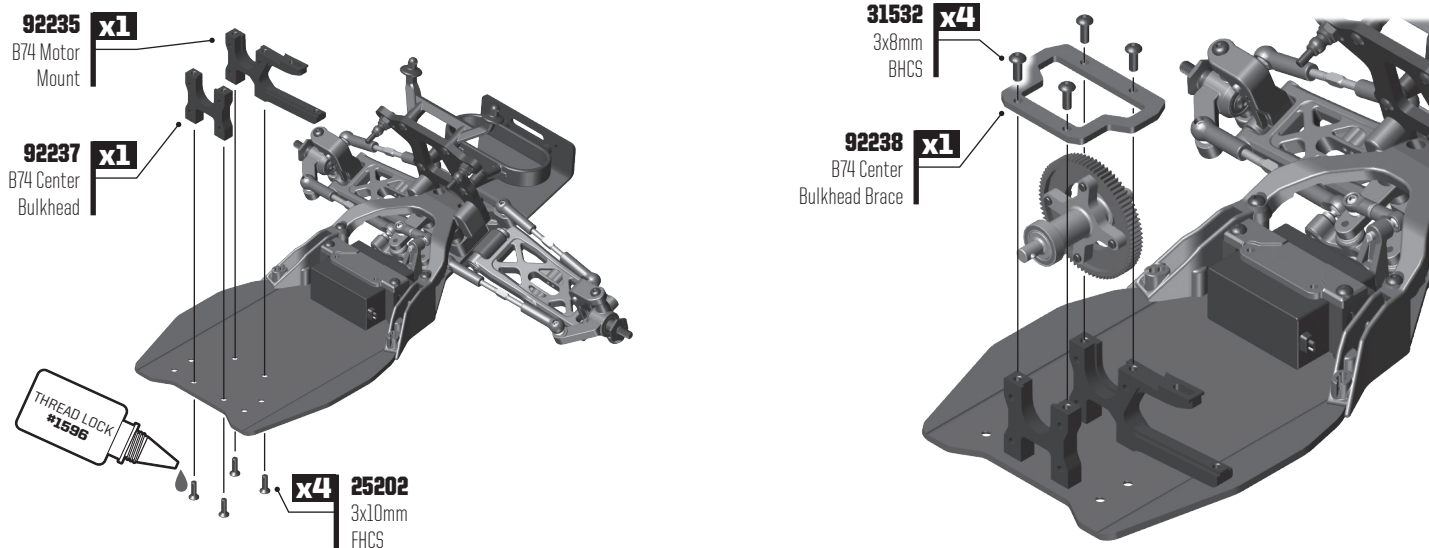
## GATE 01

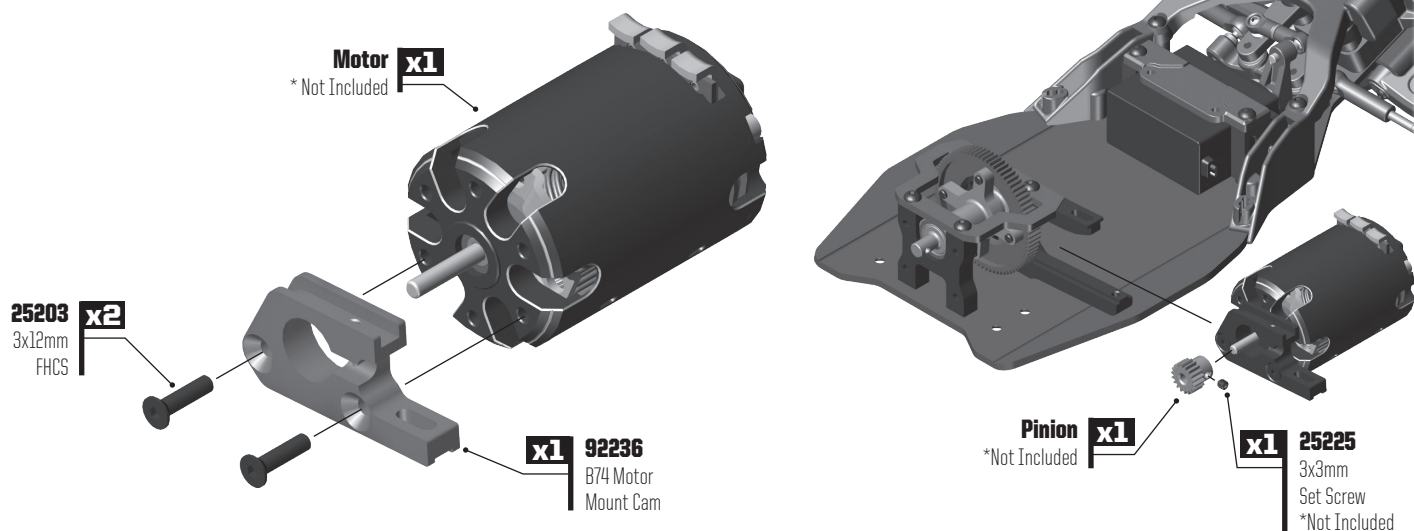
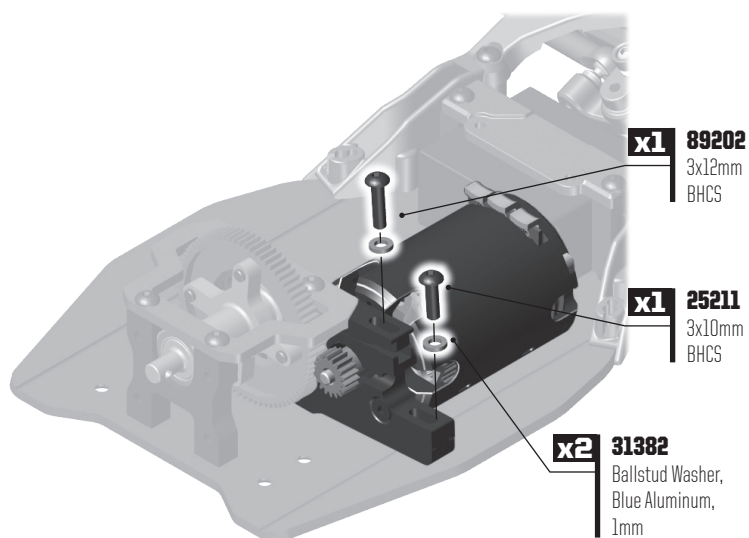
### CENTER BULKHEAD BUILD: BAG 5



## GATE 02

### CENTER BULKHEAD BUILD: BAG 5

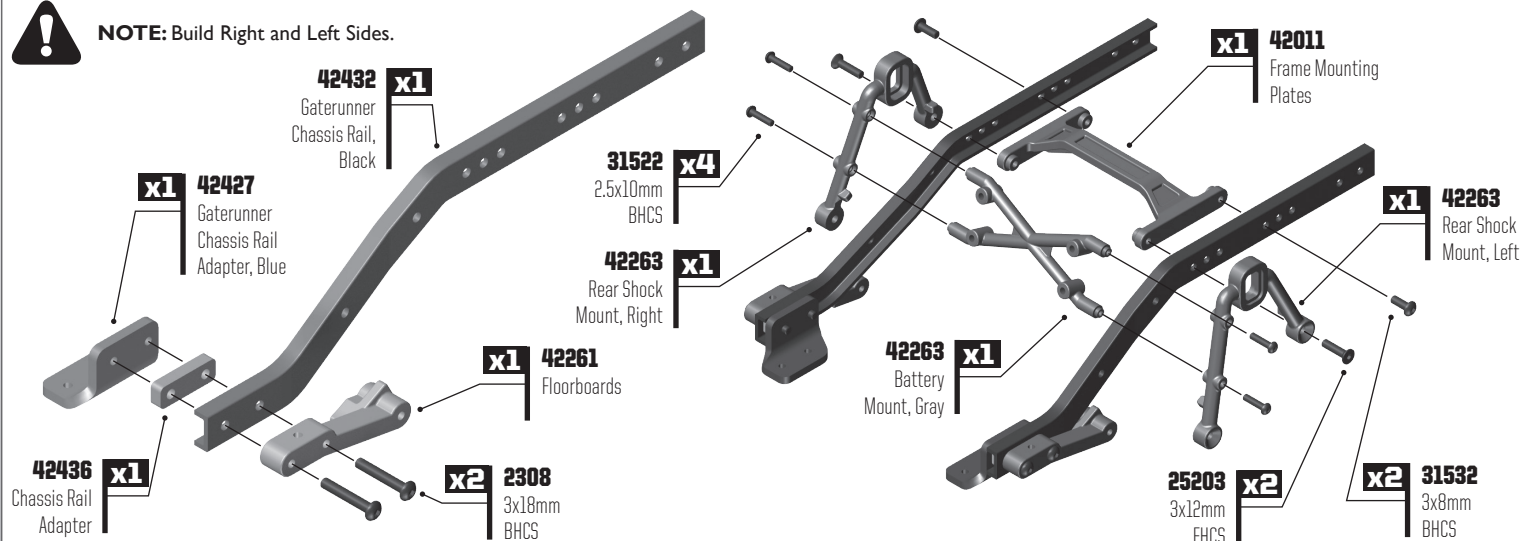


**GATE 03****CENTER BULKHEAD BUILD: BAG 5****GATE 04****CENTER BULKHEAD BUILD: BAG 5**

**NOTE:** We suggest a  
brushless motor size of 17.5  
to 21.5.

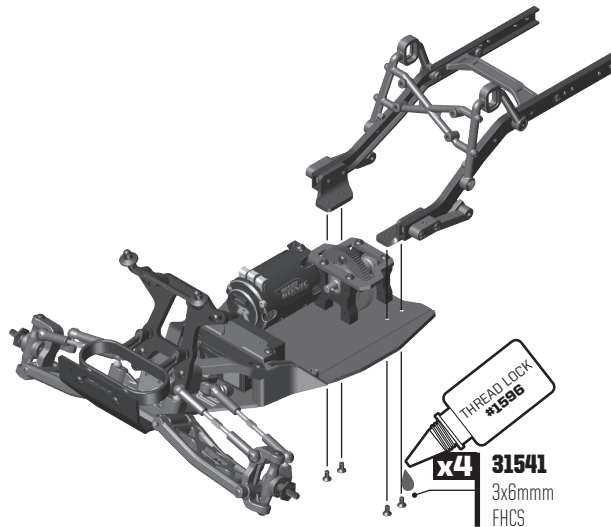
**GATE 01****REAR END BUILD: BAG 6**

**NOTE:** Build Right and Left Sides.



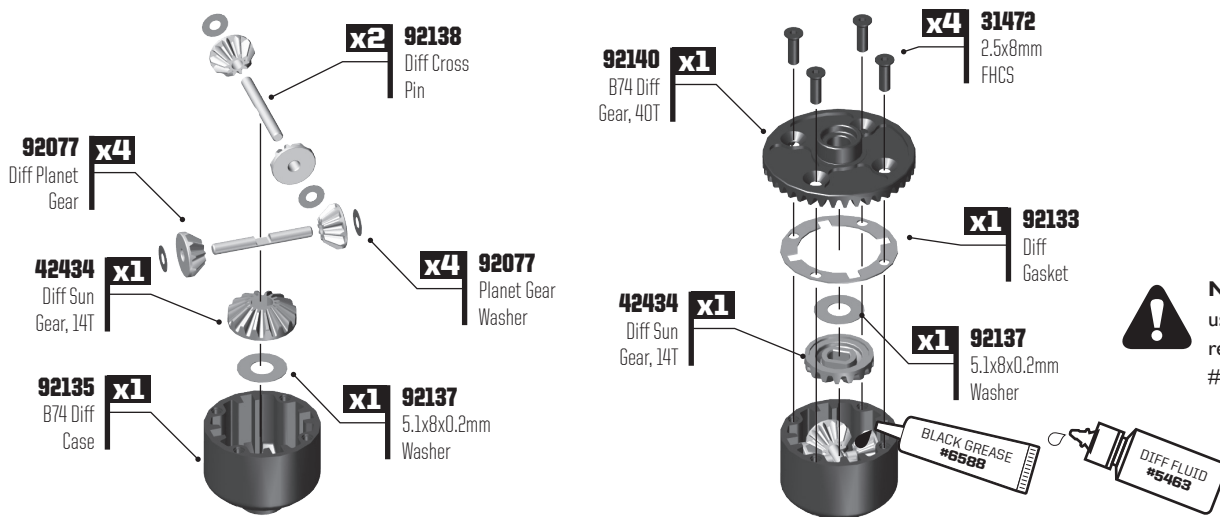
## GATE 02

REAR END BUILD: BAG 6



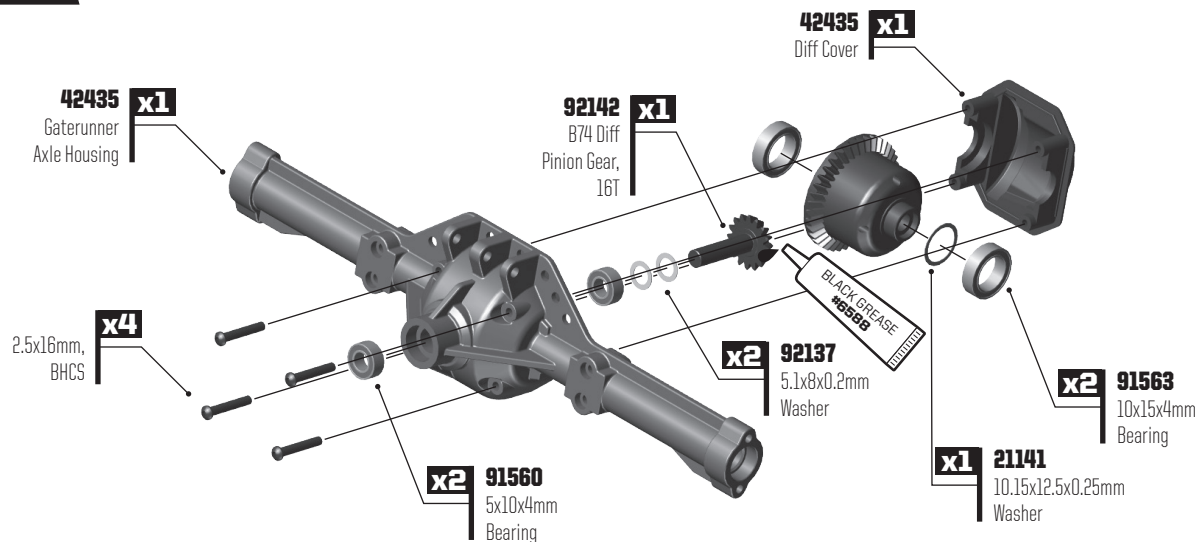
## GATE 01

REAR DIFFERENTIAL BUILD: BAG 7



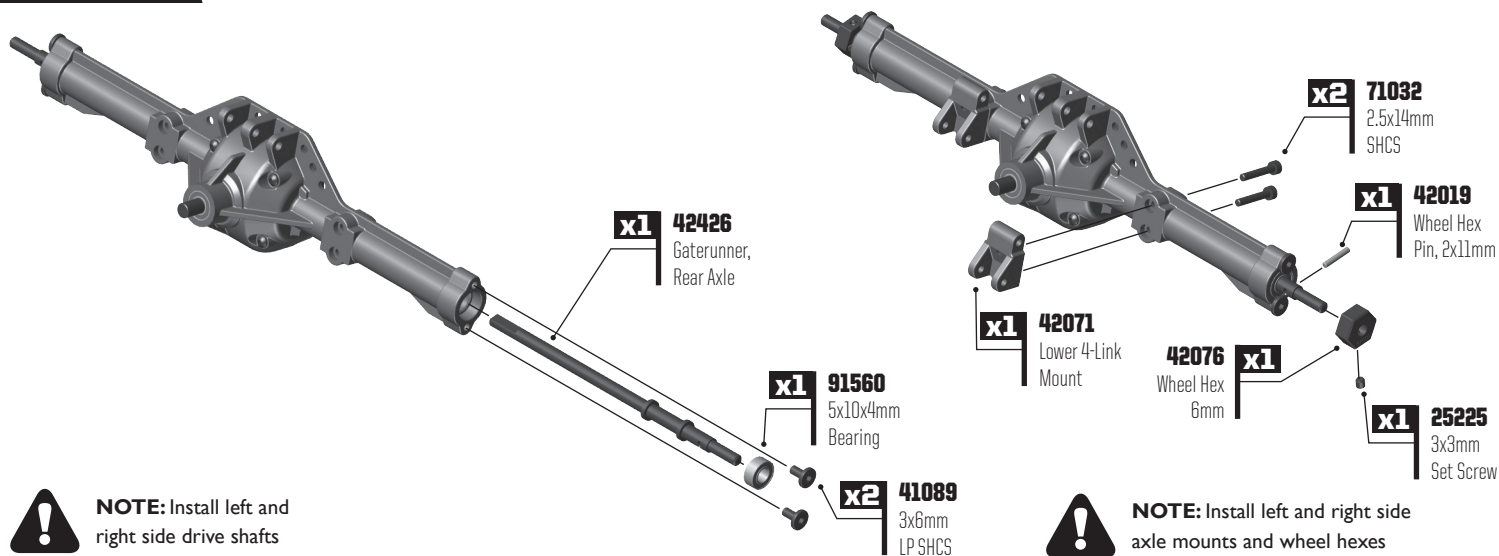
## GATE 01

REAR AXLE BUILD: BAG 8



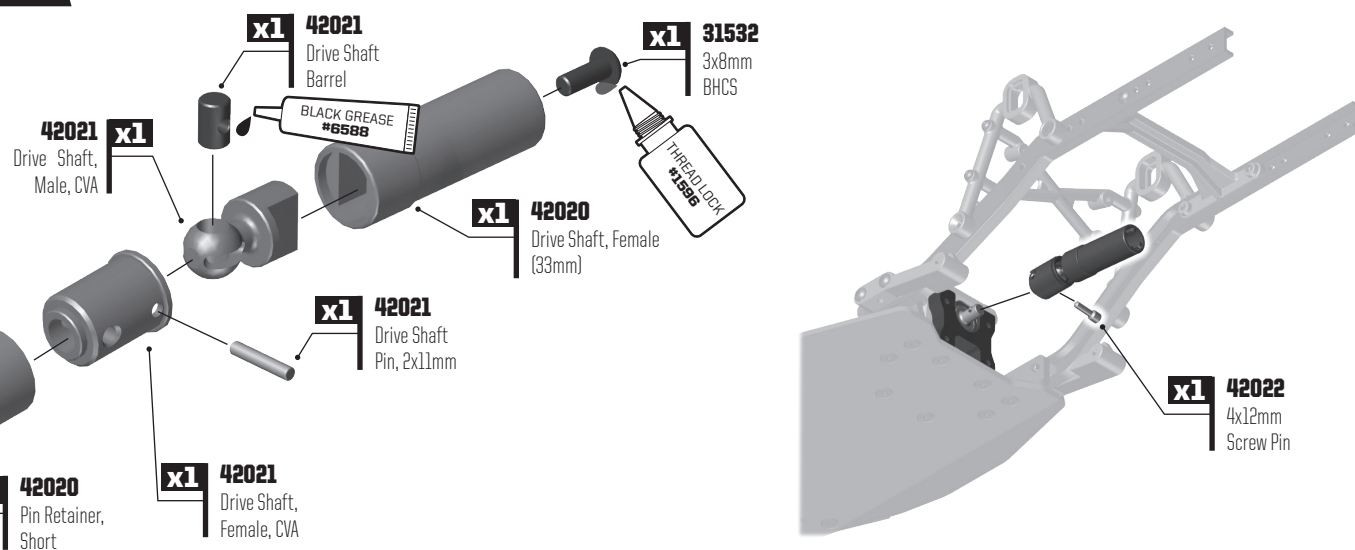
## GATE 02

REAR AXLE BUILD: BAG 8



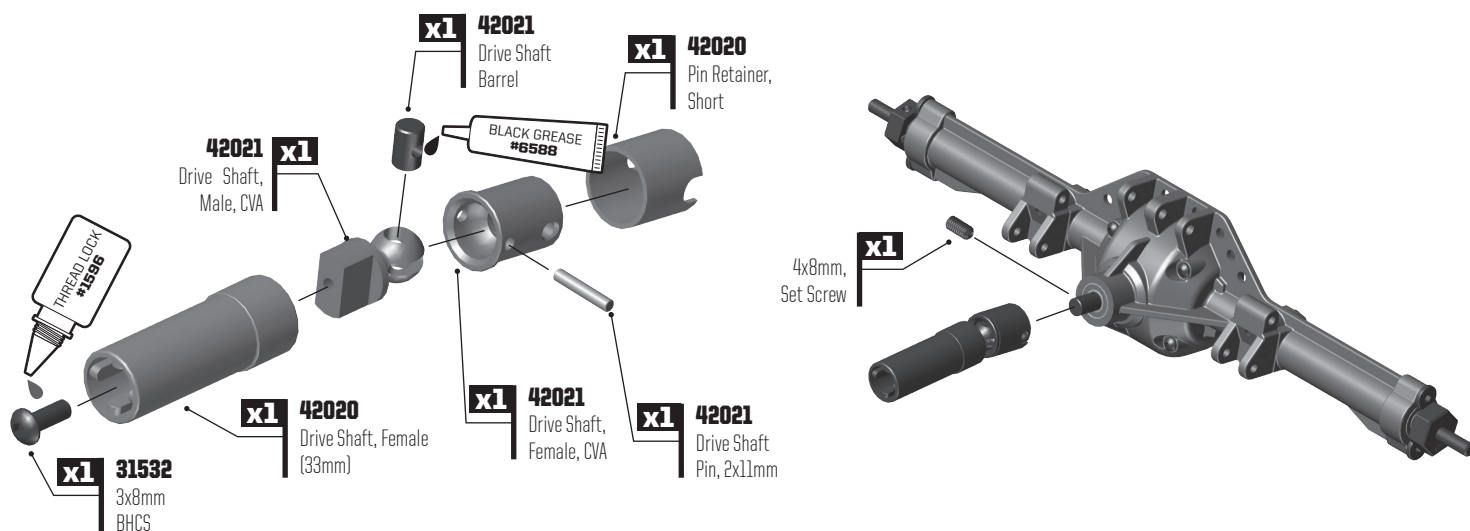
## GATE 01

DRIVESHAFT BUILD: BAG 9

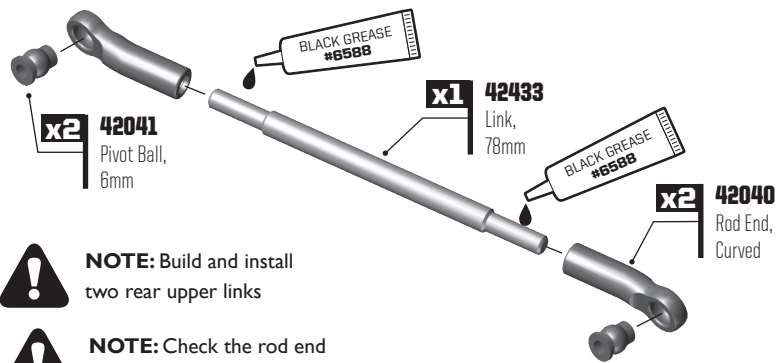


## GATE 02

DRIVESHAFT BUILD: BAG 9



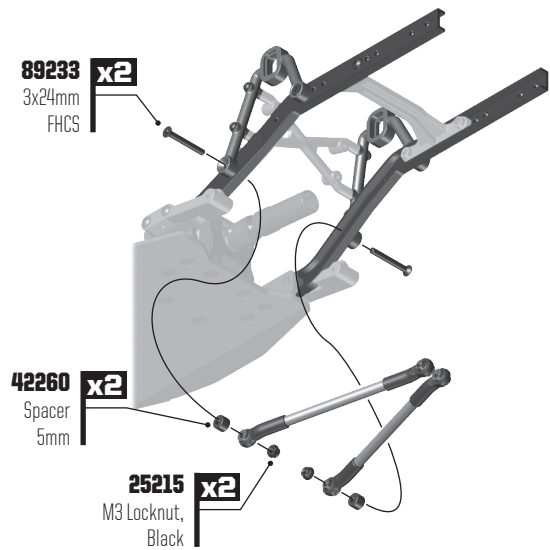
## GATE 01 ANTI ROLL BAR BUILD: BAG 10



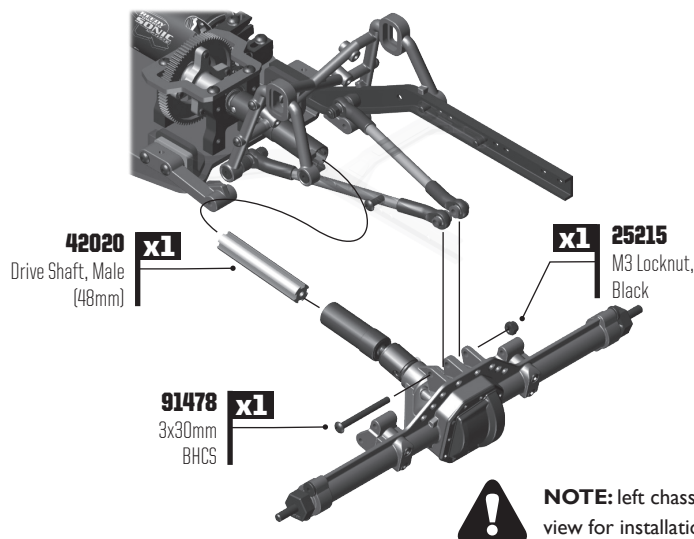
**NOTE:** Build and install two rear upper links



**NOTE:** Check the rod end angles before installation



## GATE 02 ANTI ROLL BAR BUILD: BAG 10

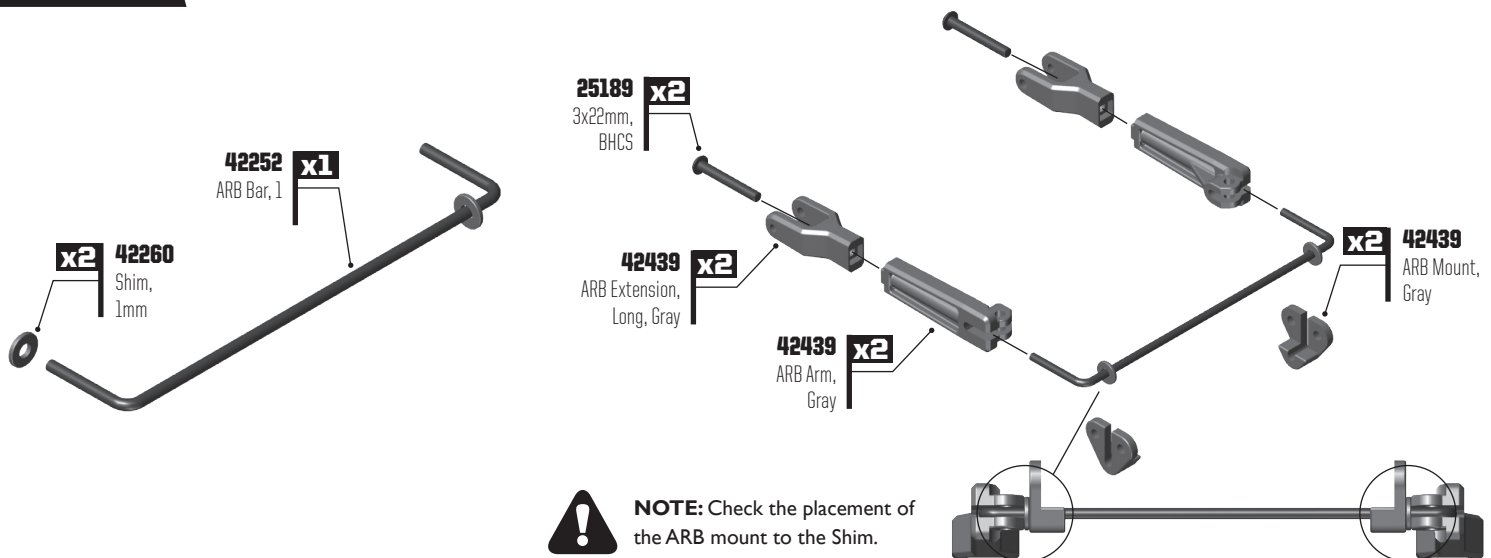


**NOTE:** left chassis rail hidden in view for installation clarity.



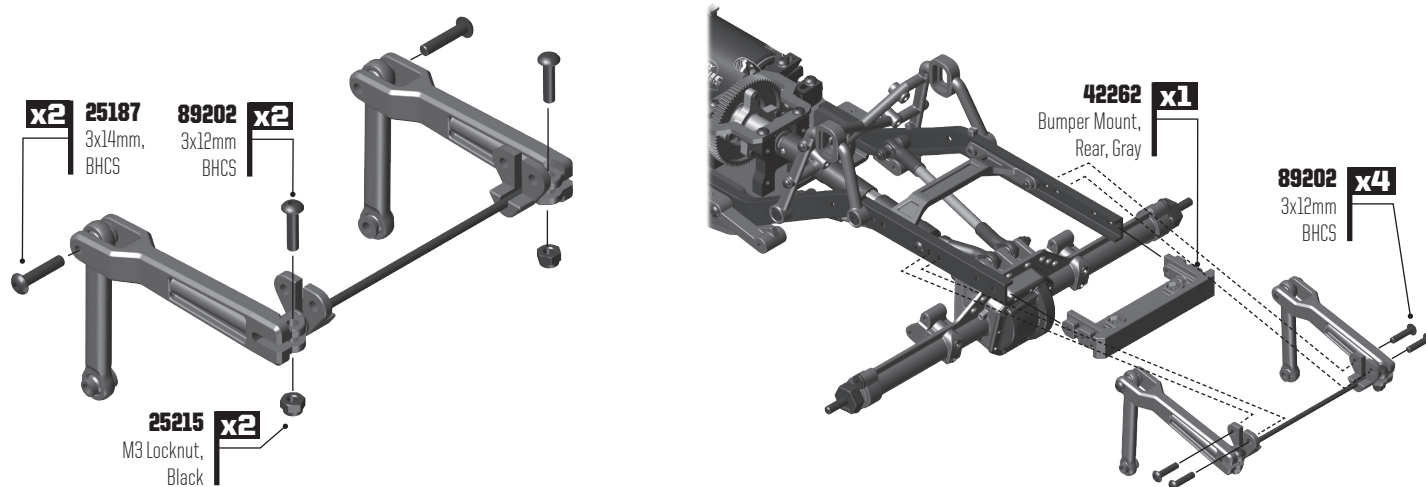
**NOTE:** Build and install two drop links

## GATE 03 ANTI ROLL BAR BUILD: BAG 10

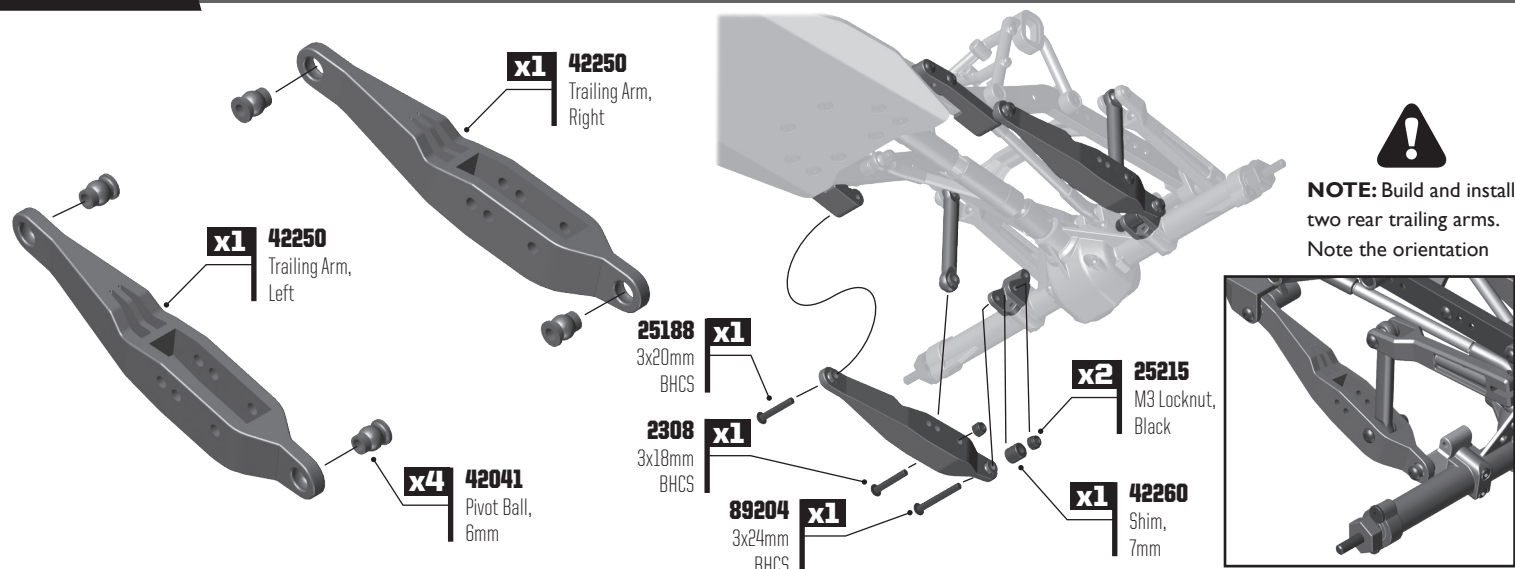


**NOTE:** Check the placement of the ARB mount to the Shim.

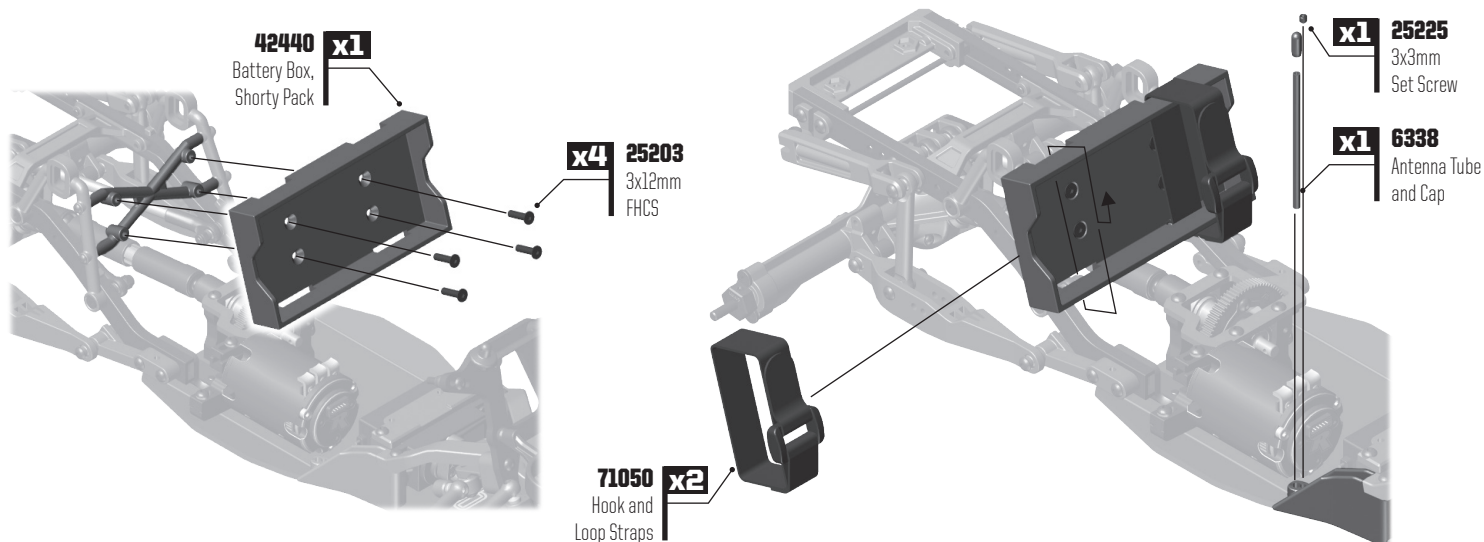
## GATE 04 ANTI ROLL BAR BUILD: BAG 10



## GATE 05 ANTI ROLL BAR BUILD: BAG 10

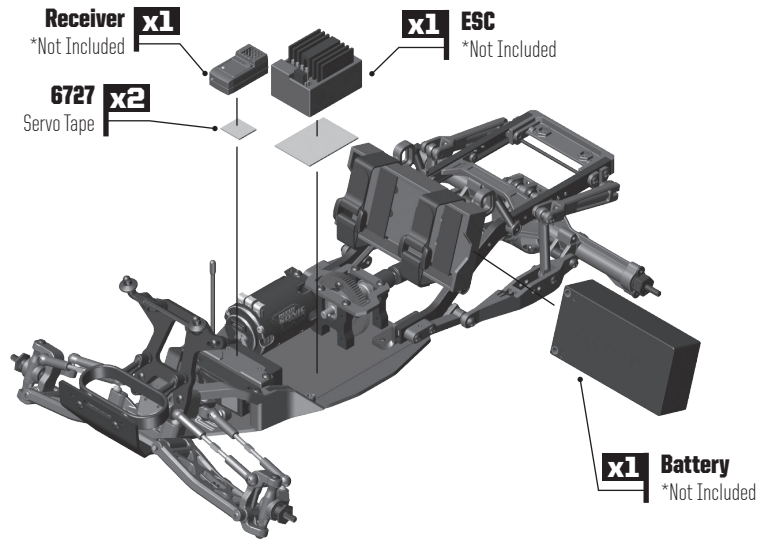
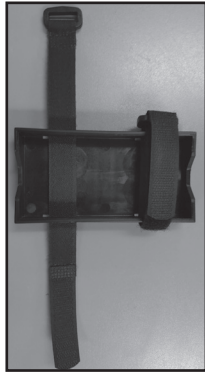


## GATE 01 BATTERY BOX BUILD: BAG 11



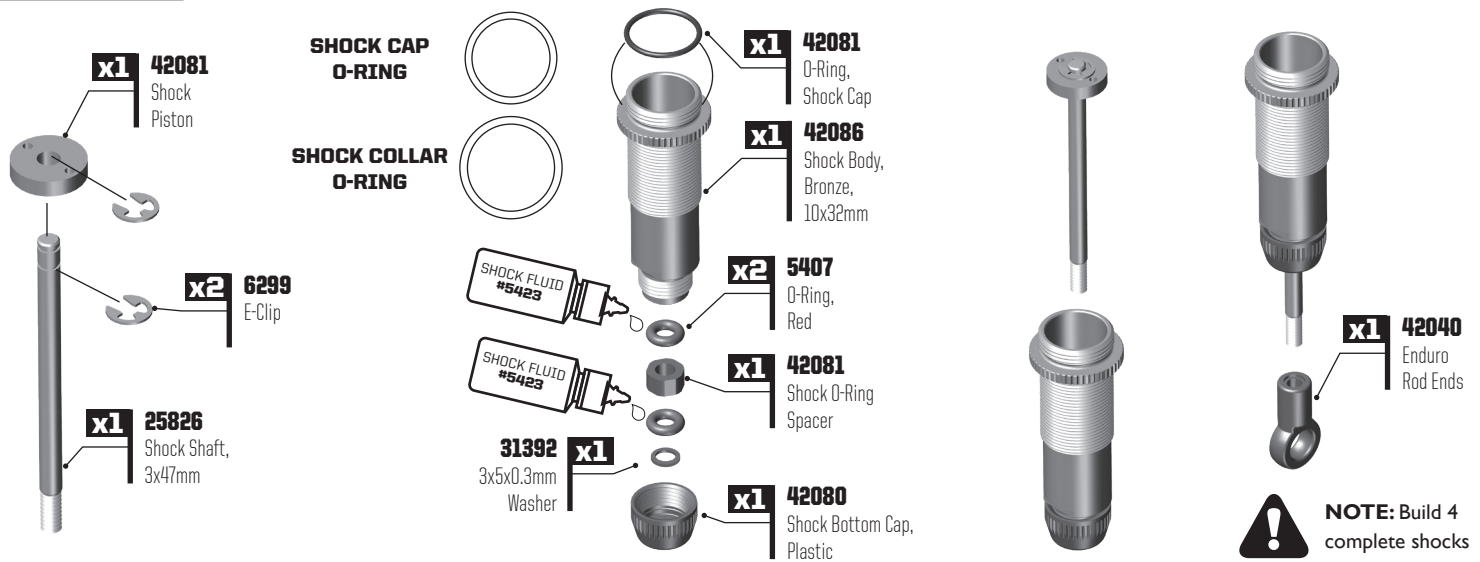
## GATE 02

BATTERY BOX BUILD: BAG 11



## GATE 01

SHOCKS BUILD: BAG 12

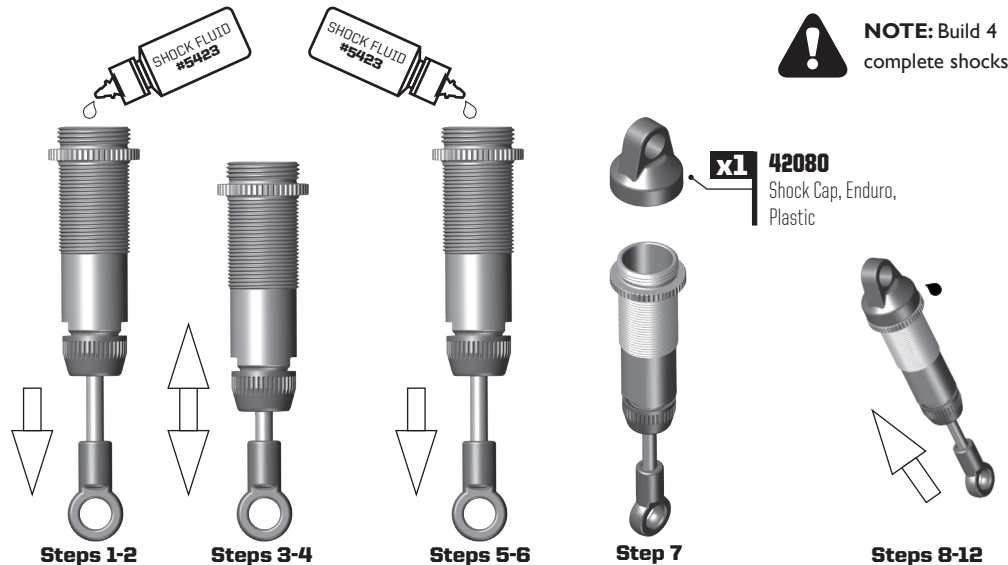


## GATE 02

SHOCKS BUILD: BAG 12

### Shock Bleeding Steps:

1. Pull shock shaft down.
2. Fill shock body 3/4 full with shock fluid.
3. Slowly move the shock shaft up and down to remove air from under piston.
4. Wait for bubbles to come to surface.
5. Fill shock body to top with silicone fluid.
6. Place a drop of oil in the cap and on cap threads.
7. Install cap and tighten completely.
8. Slowly compress shaft all the way to the top. If there is pressure at the top of the stroke, there is too much oil or air. You must bleed it out.
9. Slowly pull shaft out.
10. Unscrew the cap 3/4 turn and tilt the shock at a slight angle.
11. Slowly compress the shaft to push out excess oil and air. You should see bubbles coming out from under the cap.
12. With the shaft compressed, tighten the cap and re-check for pressure at the top of the stroke. If there is still pressure, repeat steps 9 thru 11.



## GATE 03

SHOCKS BUILD: BAG 12

SHOCK CAP  
O-RINGSHOCK COLLAR  
O-RING

**x1** 42081  
O-Ring,  
Shock Collar

**x1** 42079  
Shock Collar,  
Black, Aluminum

**Pro Tip:** Use your  
finger to rub shock  
fluid on the o-ring  
for smoother  
adjustment.

**x1** 42091  
Front Shock Spring,  
Yellow, 2.47 lb/in, 63mm

**x1** 42090  
Rear Shock Spring,  
Blue, 2.09 lb/in, 63mm

Front - 5mm  
Rear - 3mm

**x1** 42080  
Shock Spring Cup,  
Plastic



**NOTE:** Build 4  
complete shocks

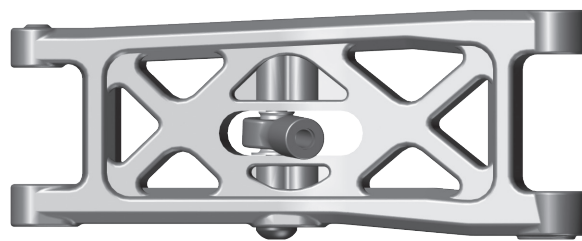
## GATE 04

SHOCKS BUILD: BAG 12

**x1** 25612  
M3 Flanged  
Nut

**91819**  
Shock Pivot  
Ball, 6mm

**x1** 25188  
3x20mm  
BHCS



**NOTE:** Build left  
and right side

## GATE 05

SHOCKS BUILD: BAG 12

**42256**  
Nut

**x1** 42263  
Insert

**x1** 42260  
Shim,  
5mm

**x1** 42041  
Pivot Ball,  
Upper Shock

**x1** 41091  
3x20mm  
LP SHCS

**31382**  
Ballstud Washer,  
1mm  
Blue Aluminum

**x1** 31392  
3x5x0.3mm  
Washer

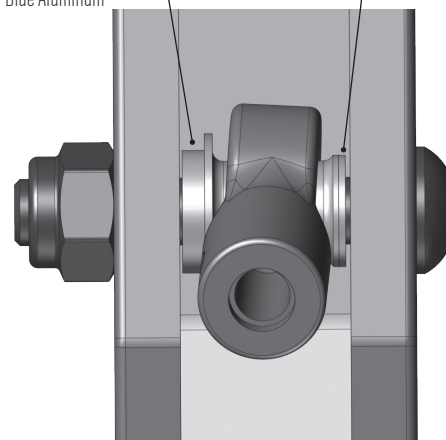


**NOTE:** Build left  
and right side

**25215**  
M3 Locknut

**91819**  
Shock Pivot  
Ball, 6mm

**x1** 2308  
3x18mm  
BHCS



## GATE 01

CAGE / BODY BUILD: BAG 13

**42270** **x1**  
Fuel Cell,  
Bottom

**42270** **x1**  
Fuel Cell,  
Support

**31531** **x2**  
3x6mm  
BHCS

**31532** **x4**  
3x8mm  
BHCS

**x1** **42270**  
Fuel Cell,  
Top

**42270** **x1**  
Cage,  
Rear, Right

**x1** **42270**  
Cage,  
Bottom

**42270** **x1**  
Cage,  
Rear, Left

**31532** **x1**  
3x8mm  
BHCS

**x2** **25211**  
3x10mm  
BHCS



**NOTE:** Build left  
and right side

## GATE 02

CAGE / BODY BUILD: BAG 13

**42270** **x1**  
Cage,  
Radiator Support

**42270** **x1**  
Cage,  
Radiator

**31532** **x2**  
3x8mm  
BHCS

**89202** **x2**  
3x12mm  
BHCS

**x1** **42437**  
Cage,  
Right

**x1** **42270**  
Cage,  
Brace

**x1** **25211**  
3x10mm  
BHCS

**x1** **31532**  
3x10mm  
BHCS

**x1** **25211**  
3x10mm  
BHCS

**x1** **42437**  
Cage,  
Left



**NOTE:** Build left  
and right side

## GATE 03

CAGE / BODY BUILD: BAG 13

**42270** **x1**  
Cage,  
Rear

**x2** **89202**  
3x12mm  
BHCS

**x4** **25211**  
3x10mm  
BHCS

**x1** **25201**  
3x8mm  
FHCS

**x1** **42162**  
Number  
Plate

**x1** **25203**  
3x12mm  
FHCS

**42441** **x1**  
Interior

**x2** **42272**  
Helmet

**x2** **31520**  
2.5x6mm  
BHCS

**2mm Cable Tie** **x2**

**31531** **x2**  
3x6mm  
BHCS



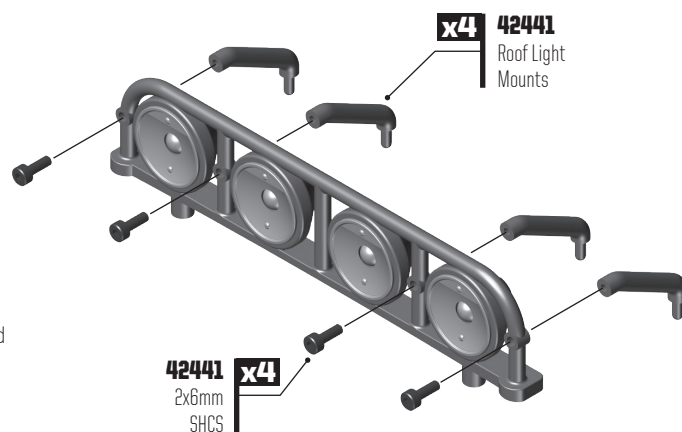
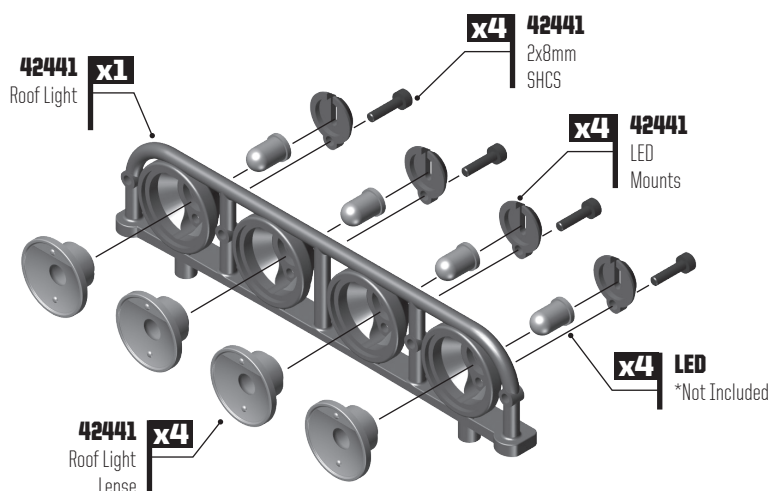
**NOTE:** Build Right and Left Sides.



**NOTE:** Secure the interior  
to the roll cage using zip ties.

## GATE 04

CAGE / BODY BUILD: BAG 13

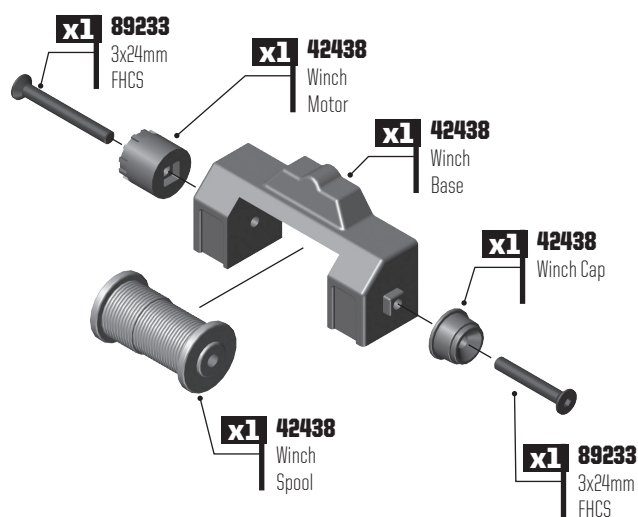
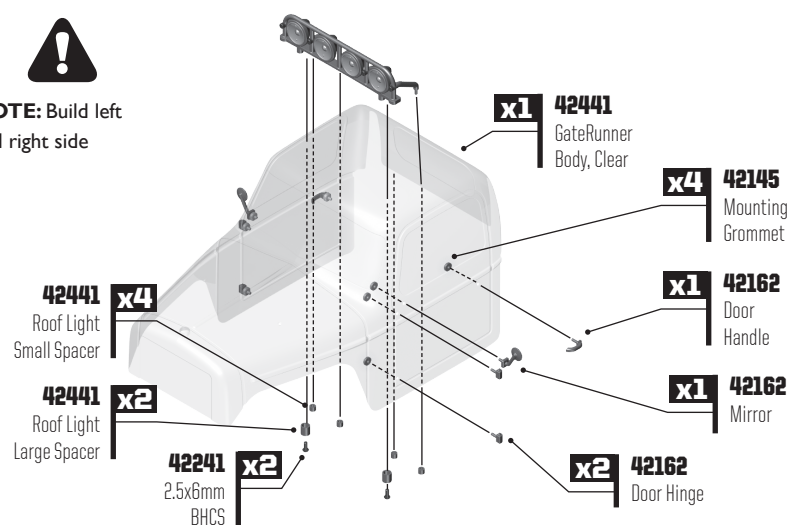


## GATE 05

CAGE / BODY BUILD: BAG 13

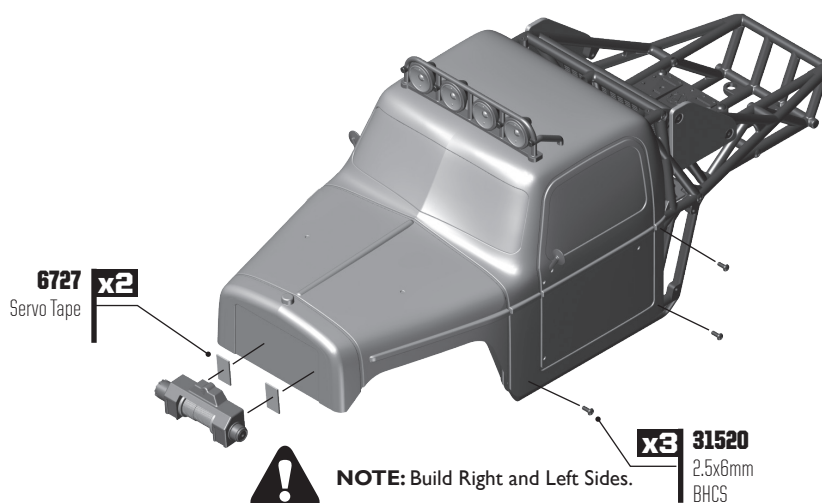
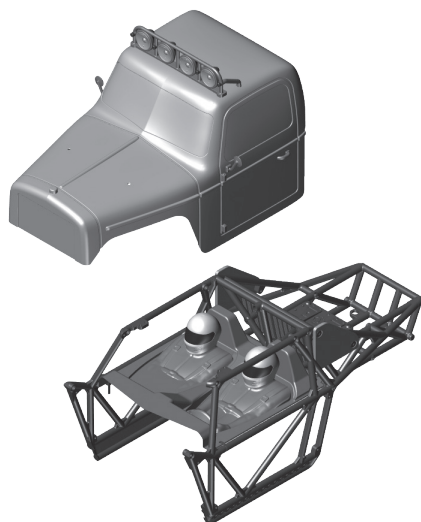


**NOTE:** Build left and right side



## GATE 06

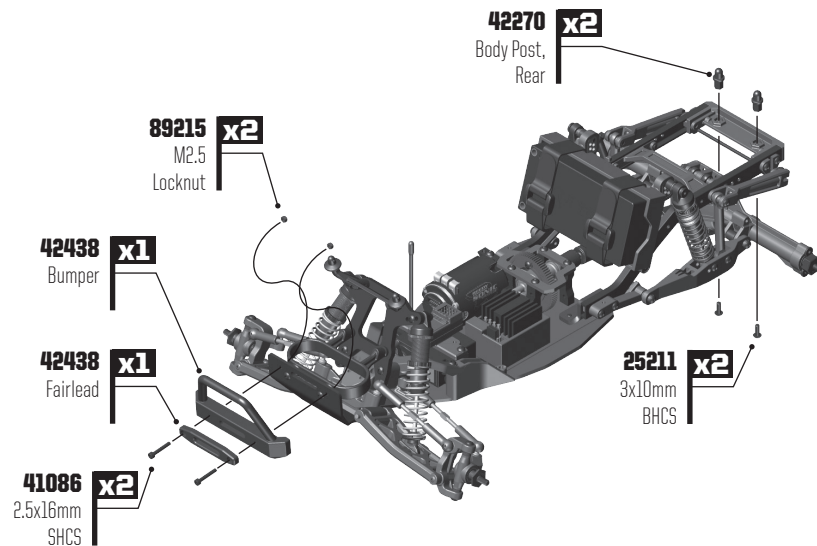
CAGE / BODY BUILD: BAG 13



**NOTE:** Build Right and Left Sides.

## GATE 07

CAGE / BODY BUILD: BAG 13

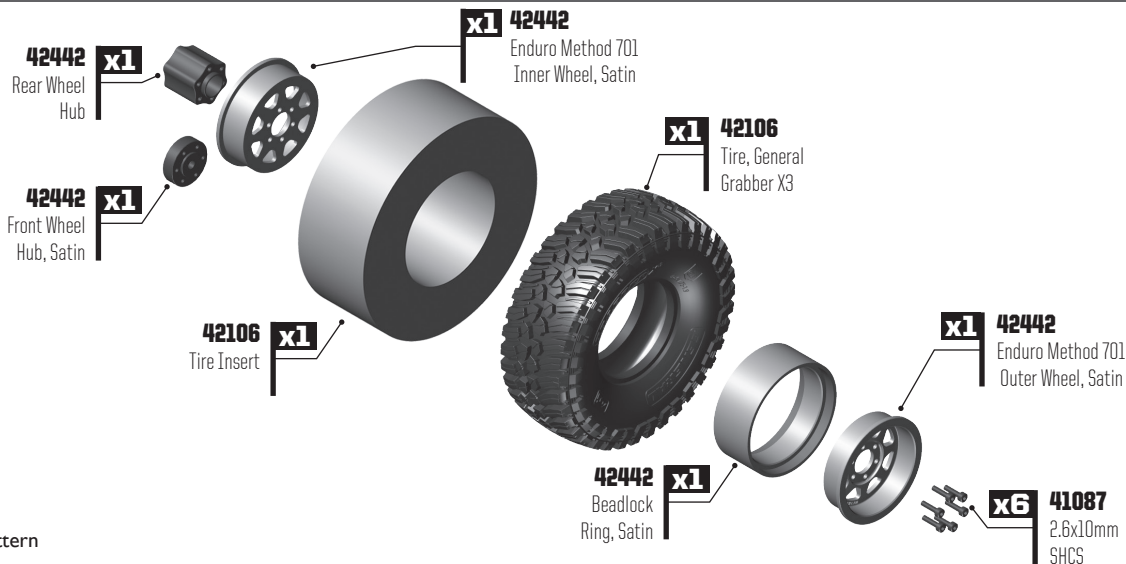


## GATE 01

WHEELS AND TIRES BUILD: BAG 14



**NOTE:** Build x2 front and x2 rear wheels/tires



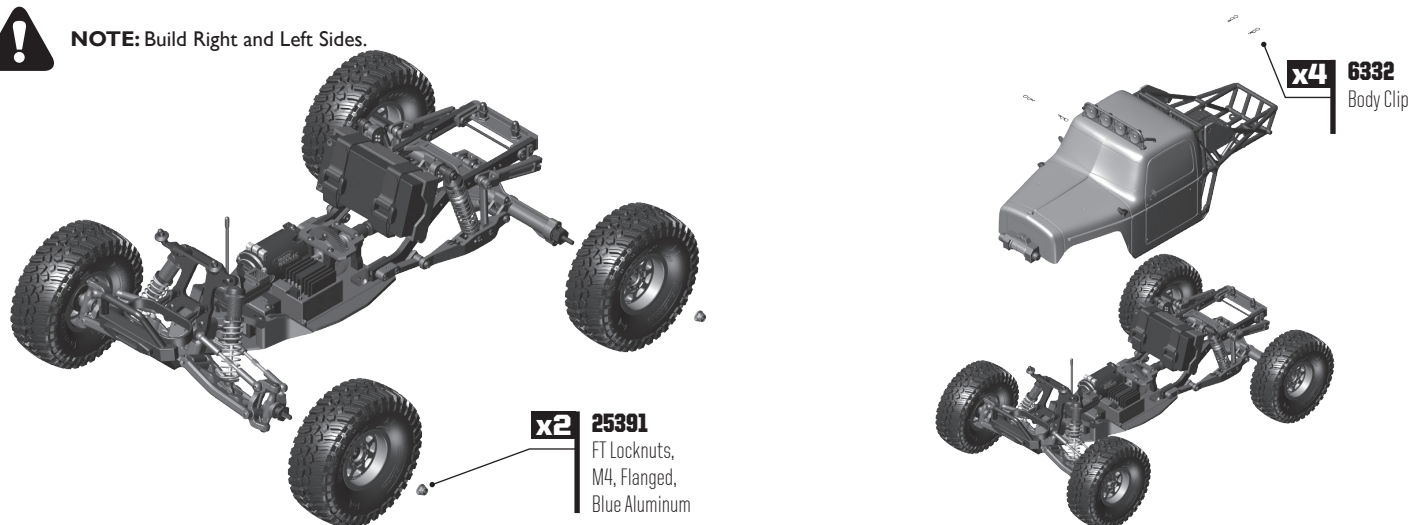
**NOTE:** Install #41088 screws in a crossing pattern

## GATE 02

WHEELS AND TIRES BUILD: BAG 14



**NOTE:** Build Right and Left Sides.









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