

RC10 TRAIL TRUCK



TEAM ASSOCIATED

1:10 Scale Electric Trail Truck Kit Manual
#40137 Trail Truck Kit





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STEALTH is a Registered Trademark of Associated Electrics, Inc.

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

ITEMS NEEDED

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

- 1.5mm Allen Wrench (#1500)
- 2mm Allen Wrench (#1501)
- 2.5mm Allen Wrench (#1503)
- Pliers
- Long Nose Pliers
- 5.5mm Nut Driver (#1507)
- 7mm Nut Driver (#1508)

OTHER HELPFUL ITEMS

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

- Threadlock (#1596) *Not Included
- 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.

TRAILWALKER PORTAL PLUS RTR

A PERFORMANCE RIG BUILT TO ENDURE. When hitting the trail, you want to do it with confidence and the answer is the Enduro Trailwalker Portal Plus Trail Truck!

At the heart of the Enduro Trailwalker Portal Plus is our revolutionary Stealth® X gearbox. Although the exterior appears to have a conventional 3-gear transmission look, the inside is far from conventional. The Stealth® X features the ability to adjust the rear drive ratio independently of the front drive across three levels: stock overdrives the front end 5.7% (installed in RTR), option 1 provides a one-to-one drive ratio front-to-rear (available separately), and option 2 overdrives the front end 11.83% (included with RTR).

Feeding the power to the tires are 3-piece telescopic driveshafts with an extruded aluminum center section, universal front drive axles, and hardened steel ring and pinion gears. With the Enduro drivetrain, delivering useful power will not be an issue.

As with all of our Enduro chassis, the steering link assembly has been relocated from the conventional location to behind the axle (BTA). This feature greatly improves approach angle and front end clearance, making rough terrain much easier to handle.

The Ecto Portal RTR features new high-clearance portal axles. These new portal axles include all-metal gears, ball bearings, and a new larger pocket for a heavier-duty inner input bearing. With almost an inch more clearance than our standard straight axles, these axles are a perfect fit for the Enduro line-up.

The Enduro Trail Truck comes ready for adventure right out of the box, with performance-driven electronics. The ultra-smooth and powerful 14-turn 5-slot brushed crawler motor is matched with a 2-in-1 electronic speed controller and receiver. Controlling the beast on the trail is a 4-channel 2.4GHz radio and Reedy Power high-torque metal gear servo.

With all this packed in one box, we know the Enduro Trail Truck is ready for the trail – Are you?










FEATURES

- NEW high-clearance portal axles
- NEW carbon fiber flat rail chassis
- NEW aluminum chassis braces and body mount supports
- NEW Delrin® machined and flush mounted angled lower skid plate
- NEW 2-piece forward-bias aluminum motor plate
- Factory Team aluminum threaded shocks
- Factory Team steel pivot balls
- Factory Team 5mm heavy-duty steel
- High-clearance links
- Servo-on-axle steering
- Universal front and rear drive axles
- Aluminum steering plates
- Optimized ball cups for more fluid axle articulation
- Telescopic driveshafts front and rear
- Extruded aluminum driveshaft splines
- Machined input pinion gears
- Metal ring gears
- Machined steel top shaft
- Metal ball bearings included
- Steel 25T servo horn


















HARDWARE 1:1 SCALE VIEW

HARDWARE USED WITH OPTIONAL REPLACEMENT PART NUMBERS





FLAT HEAD SCREWS (FHCS)

| | |
|--|------------------|
|  | 2.5x10mm (31350) |
|  | 2.5x14mm (41077) |
|  | 3x6mm (31541) |
|  | 3x8mm (25201) |
|  | 3x10mm (25202) |
|  | 3x12mm (25203) |
|  | 3x14mm (89208) |
|  | 3x20mm (89210) |
|  | 3x24mm (89233) |










BUTTON HEAD SCREWS (BHCS)

| | |
|--|-------------------------------|
|  | 2x3mm (31509) |
|  | 2.6x10mm, SelfTapping (41088) |
|  | 3x4mm (91158) |
|  | 3x5mm (31530) |
|  | 3x6mm (31531) |
|  | 3x8mm (31532) |
|  | 3x10mm (25211) |
|  | 3x12mm (89202) |
|  | 3x14mm (25187) |
|  | 3x16mm (89203) |
|  | 3x18mm (2308) |
|  | 3x20mm (25188) |
|  | 3x22mm (25189) |
|  | 3x24mm (89204) |
|  | 3x26mm (89205) |
|  | 3x28mm (41078) |
|  | 3x45mm (71037) |





SET SCREWS

| | |
|--|---------------|
|  | 3x3mm (25225) |
|  | 3x6mm (81257) |
|  | 3x16mm (4689) |
|  | 4x16mm (4677) |



SOCKET HEAD SCREWS (SHCS)

| | |
|---|------------------|
|  | 2x5mm (31511) |
|  | 2x8mm (7187) |
|  | 2.5x6mm (41079) |
|  | 2.5x8mm (89222) |
|  | 2.5x10mm (41087) |
|  | 2.5x14mm (71032) |
|  | 2.5x16mm (41086) |
|  | 2.6x10mm (42332) |
|  | 3x6mm (41089) |



LP SOCKET HEAD SCREWS (LP SHCS)

| | |
|--|----------------|
|  | 3x6mm (41089) |
|  | 3x10mm (41090) |
|  | 3x16mm (41092) |
|  | 3x20mm (41091) |





PIVOT BALLS

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






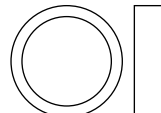
LOCK NUTS

| | |
|---|-----------------------------|
|  | M3 Locknuts (25215) |
| | Aluminum (31550) |
|  | M4 Locknut W/Flange (25391) |

BEARINGS

| | |
|---|--------------------|
|  | 5x10x4mm (91560) |
|  | 5x12x4mm (91567) |
|  | 7x14x3.5mm (91474) |
|  | 10x15x4mm (91563) |

SHIMS AND WASHERS

| | |
|---|-------------------------|
|  | 3x7mmx1mm (42260) |
|  | 3x7mmx2mm (42260) |
|  | 3x7x3mm (42260) |
|  | 3x7x5mm (42260) |
|  | 3x7x7mm (42260) |
|  | Drive Gear Shim (42027) |

MISC. SCREWS

| | |
|---|---------------------------------|
|  | Shoulder Screw 3x4x10mm (42070) |
|  | Screw Pin (42022) |
|  | Pin 2x9mm (31872) |
|  | Pin 2x11mm (42019) |

LINKS








| | |
|---|--------|
|  | 31.5mm |
|  | 69mm |
|  | 83mm |
|  | 93mm |
|  | 100mm |
|  | 108mm |
|  | 114mm |

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***Please note:**

There will be extra, spare or optional molded parts left over after the build is complete for your convenience.

USING THIS MANUAL



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

x2

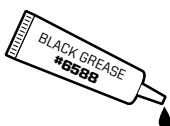
This symbol indicates the number of the same part that is required.



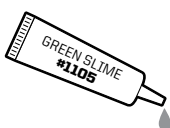
This symbol indicates the order within a step to assemble parts.



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.

TRAIL TIPS AND CHECKLIST

PREPARING TO HIT THE TRAIL:

When preparing to hit the trail, it's a good idea to have a checklist to make sure you have everything and don't end up having to head back early. We've compiled a checklist of the things we think you'll need on the trail. We've also left some space for you to add your specific items to the list. Keep in mind these are suggestions and every person will require different items. Weather and altitude will also dictate how much food and water a person will require. Do a little research first before heading out for a full day on the trail.

- ☐ Truck with Charged Battery
- ☐ 1-2 spare Charged Batteries for your rig
- ☐ Radio with Charged Batteries
- ☐ Spare radio batteries
- ☐ Check all nuts and screws and tighten them. Including Wheel nuts!
- ☐ Spare parts (Nuts, Screws, Body Clips, and anything that may wear or break)
- ☐ Backpack
- ☐ Water (2 liters per person minimum)
- ☐ Snacks (protein bars, trailmix, etc.)
- ☐ Sturdy shoes (Hiking boots preferably or something with grip and ankle support)
- ☐ Element Hat or Beanie
- ☐ Element Hoodie or Jacket
- ☐ Sunscreen
- ☐ Bug Spray
- ☐ Lip Balm
- ☐ Nut Drivers (Factory Team Nut Drivers #1507, 1508)
- ☐ Allen wrenches (Factory Team Hex Driver set #1655)
- ☐ Cell phone and charger
- ☐ Headlight or flashlight with spare batteries
- ☐ Compact action camera
- ☐ Camera
- ☐ Tripod
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

TREAD LIGHTLY:

Remember, when driving your rig out on the trails, it's important to tread lightly. We all know that the best place to enjoy our hobby is out in nature, and that means we need to preserve it for future hobbyist so we all have a place to enjoy. Here are a few tips to remember when out on the trail.

• Pack In/Pack Out:

Don't leave anything behind. Whether it's trash, parts, or food. If you brought it, take it with you.

• National and Public Parks:

If visiting a national park, leave the RC cars at home. It is illegal to drive any radio control vehicle within national park boundaries. Public parks are slightly different, some may allow radio control cars and others may not. Check with your local officials before driving in a public park.

• Be Considerate:

Where ever you drive your radio control car, always be considerate of others. Hikers, bicyclists, and animals should always be given the right of way.

• Keep It Quiet:

If you're sharing an area with other people, try to keep the noise to a minimum. If you come across animals or anglers, please be considerate and give them space.

• Give A Hoot, Don't Pollute:

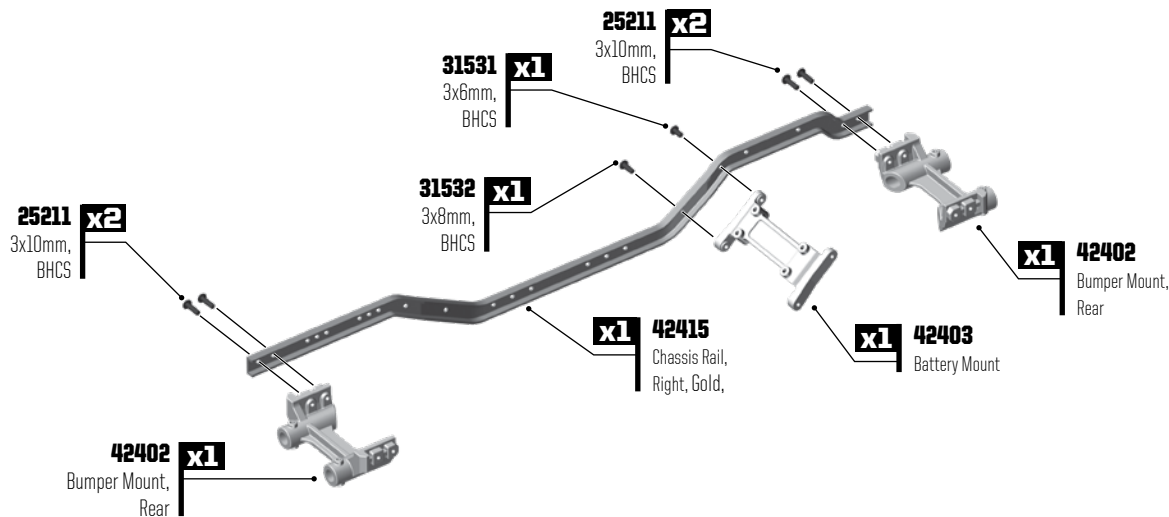
When enjoying the outdoors take your trash with you. Not only is it bad for the environment, it's unsightly. If you see trash, pick it up, even if it isn't yours. If we all do our part we can work together to keep our planet beautiful for future generations.

• Only You Can Prevent Wild Fires:

Some of us like to mix camping with RC cars. This is great! Just remember to follow all safety precautions and put out any camp fires before calling it a night. Also, be sure to unplug and store all LiPo batteries in LiPo sacks and a fire resistant storage device.

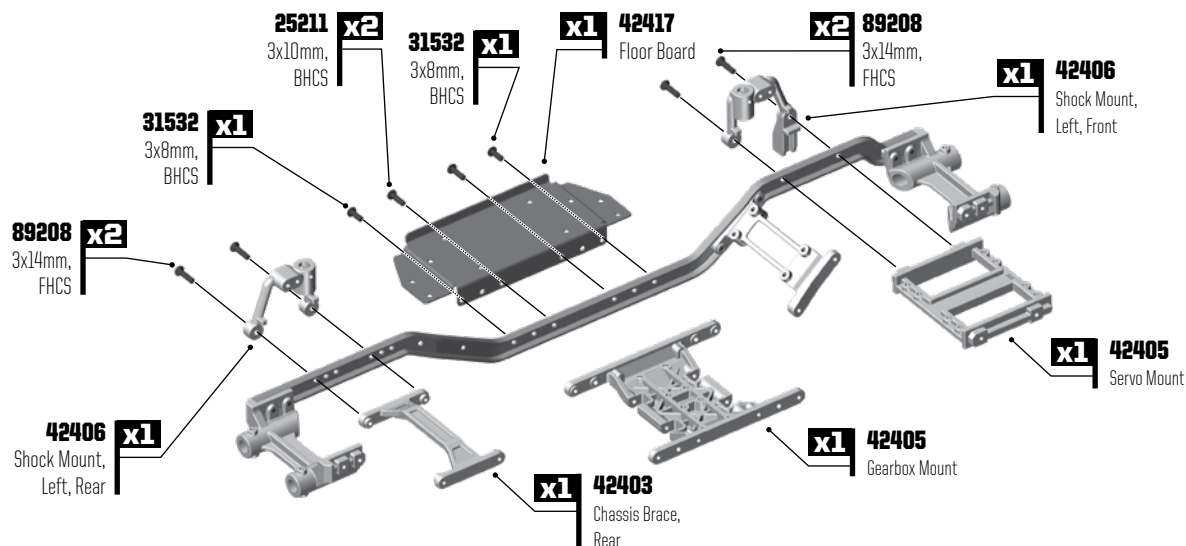
GATE 01

BAG 1 - CHASSIS BUILD



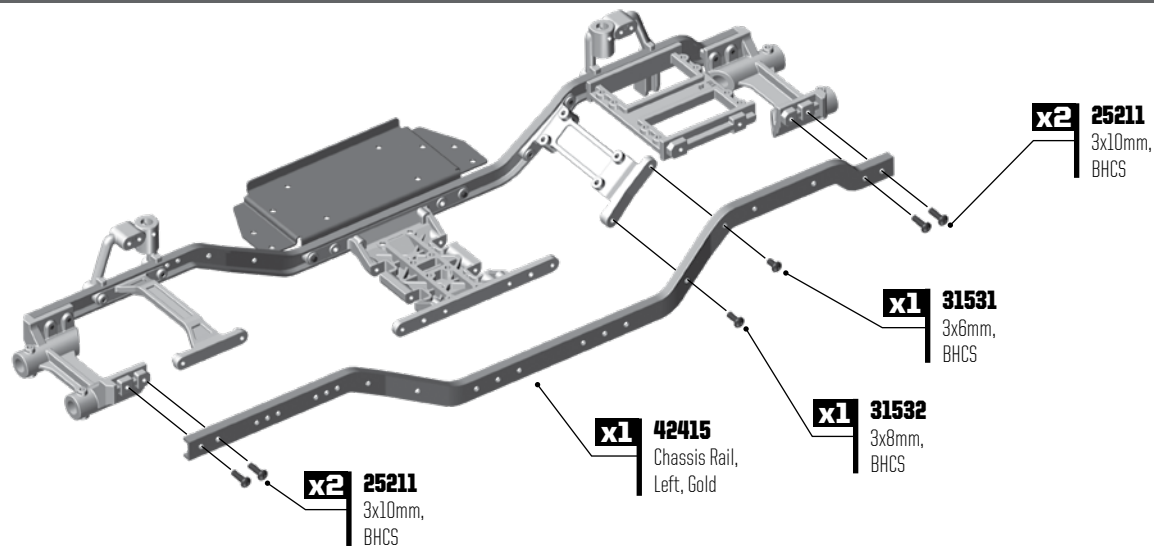
GATE 02

BAG 1 - CHASSIS BUILD



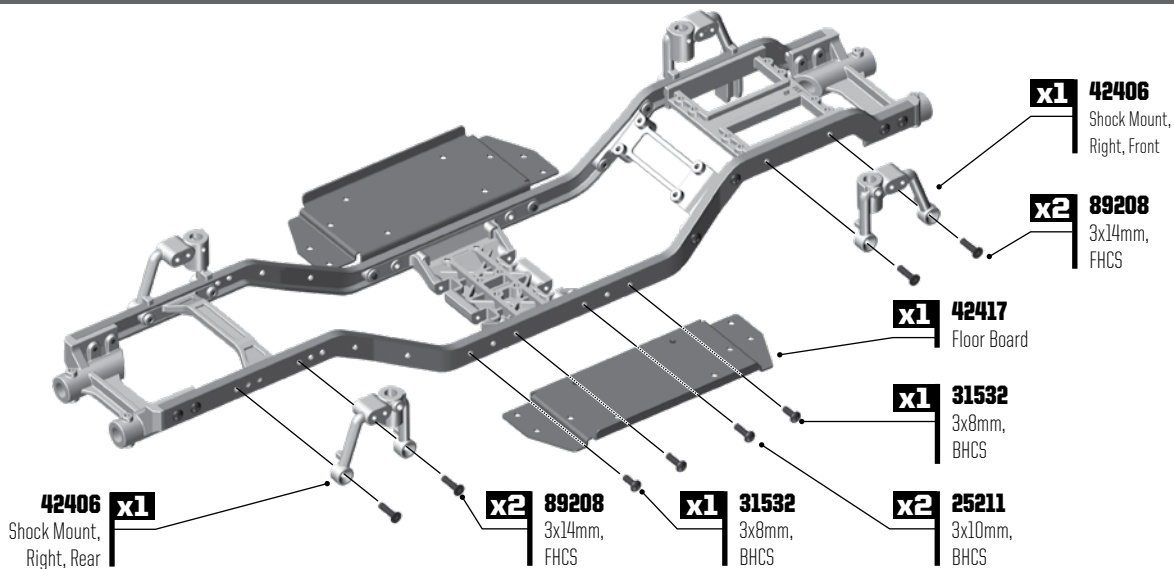
GATE 03

BAG 1 - CHASSIS BUILD



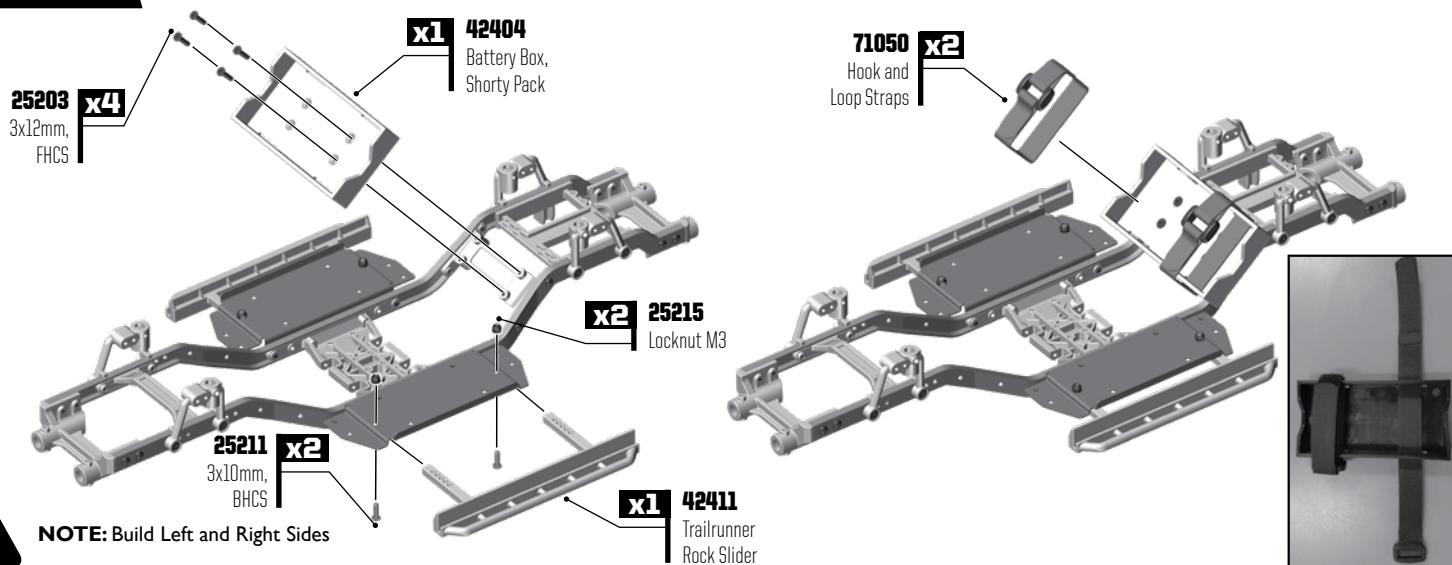
GATE 04

BAG 1 - CHASSIS BUILD



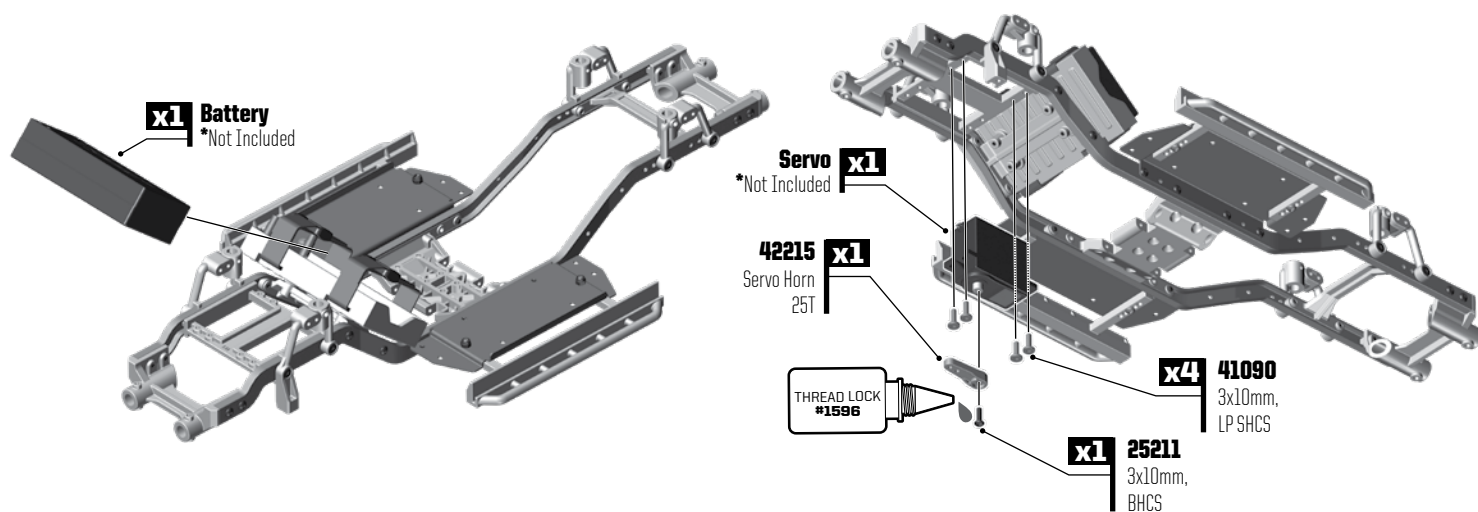
GATE 01

BAG 2 - ELECTRONIC MOUNTS BUILD

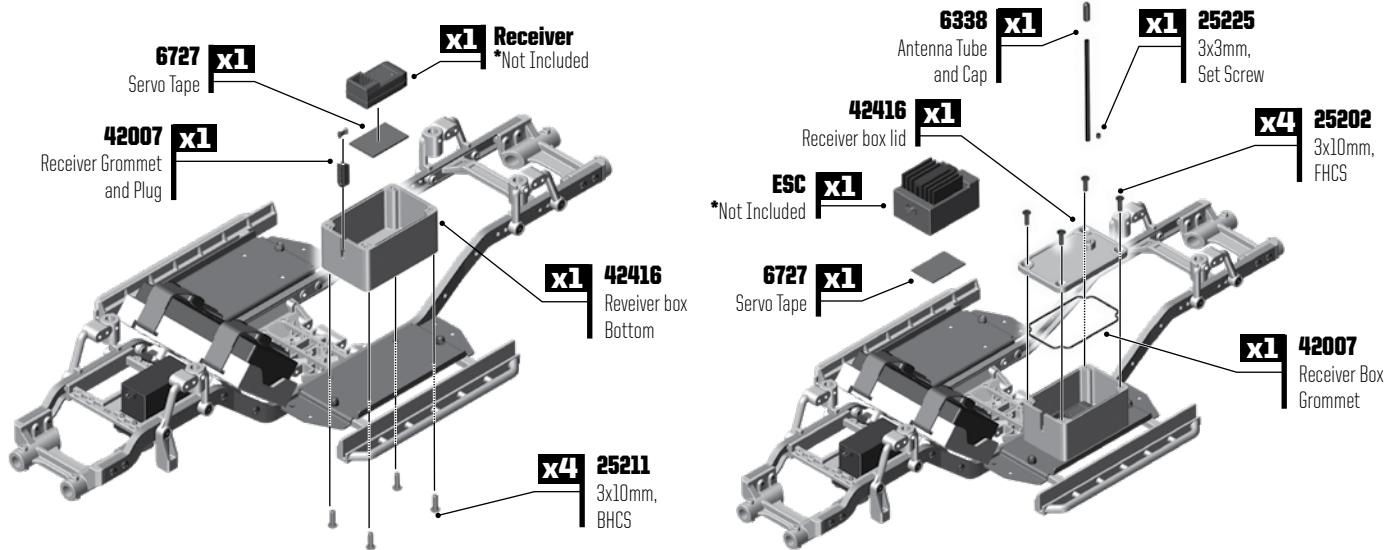


GATE 02

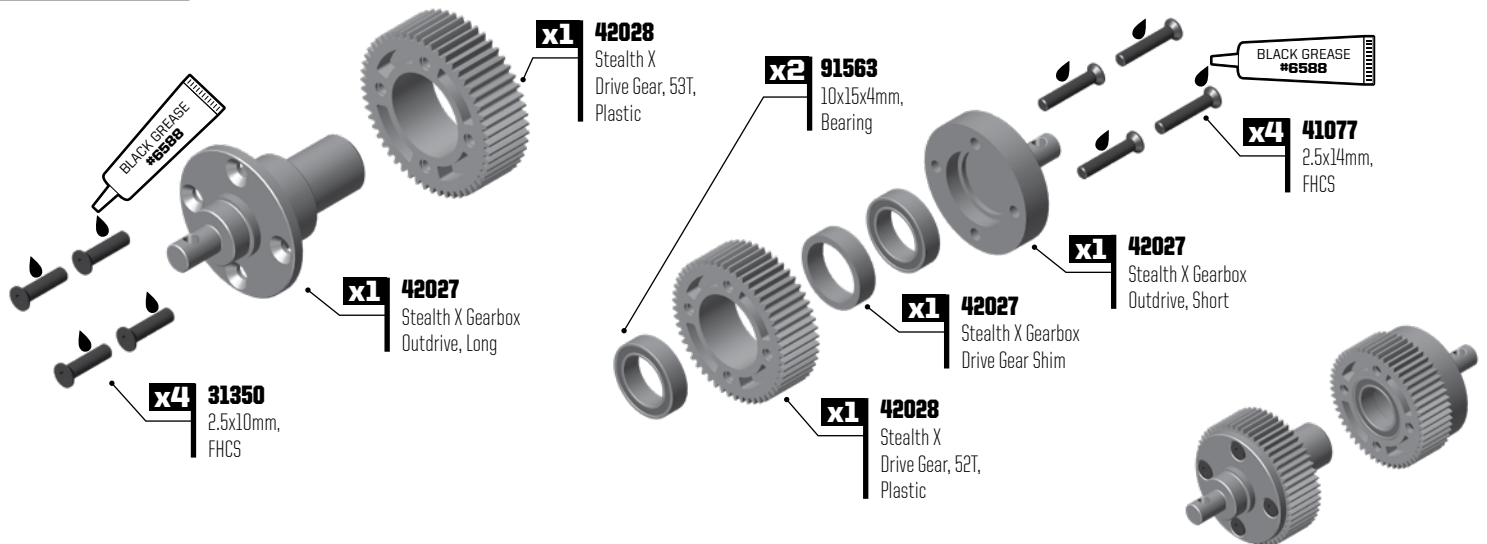
BAG 2 - ELECTRONIC MOUNTS BUILD



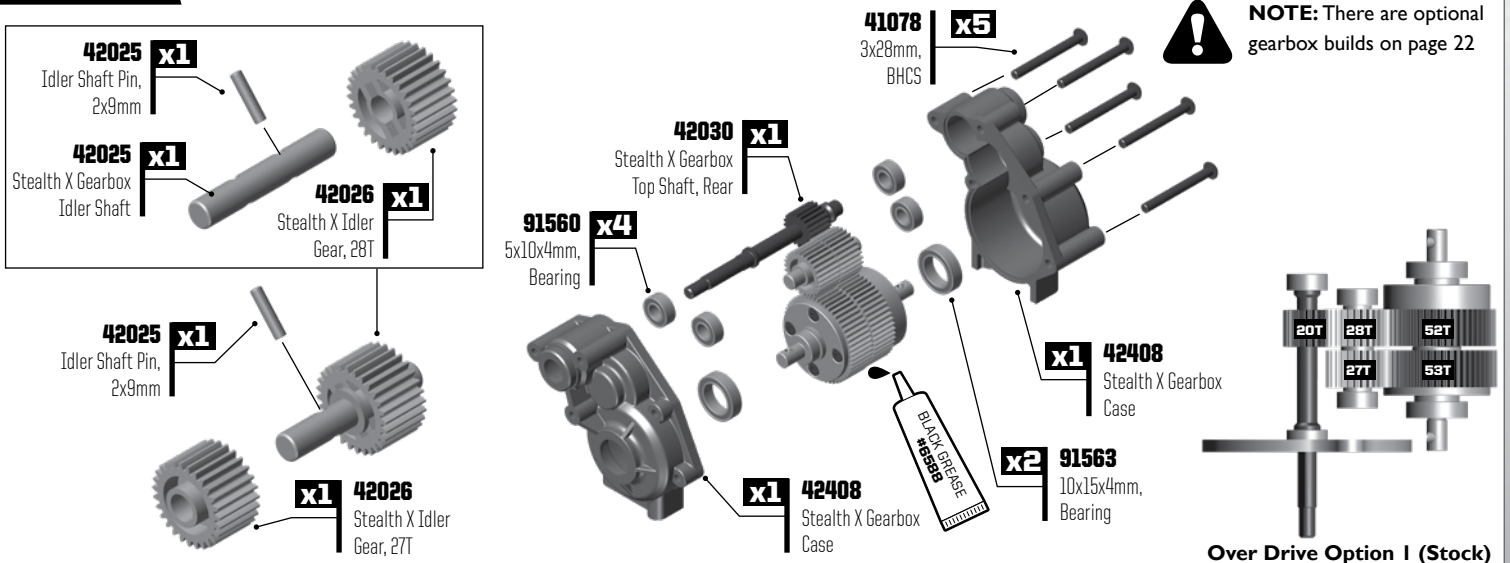
GATE 03 BAG 2 - ELECTRONIC MOUNTS BUILD



GATE 01 BAG 3 - GEARBOX BUILD

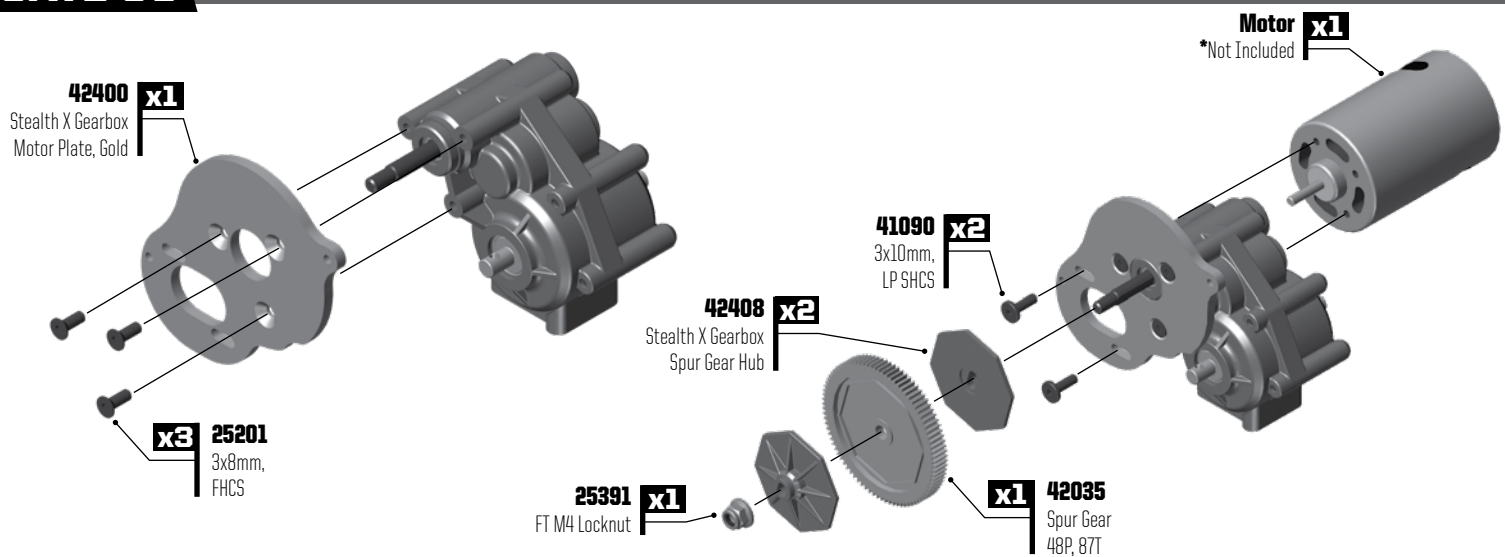


GATE 02 BAG 3 - GEARBOX BUILD



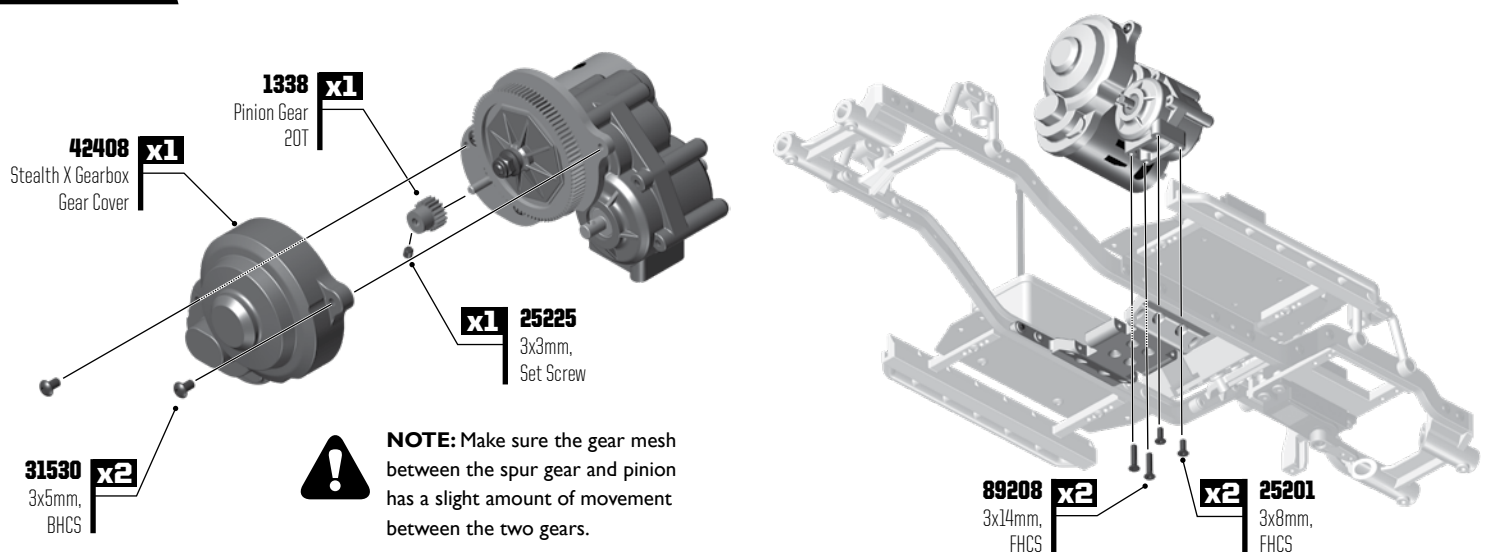
GATE 03

BAG 3 - GEARBOX BUILD



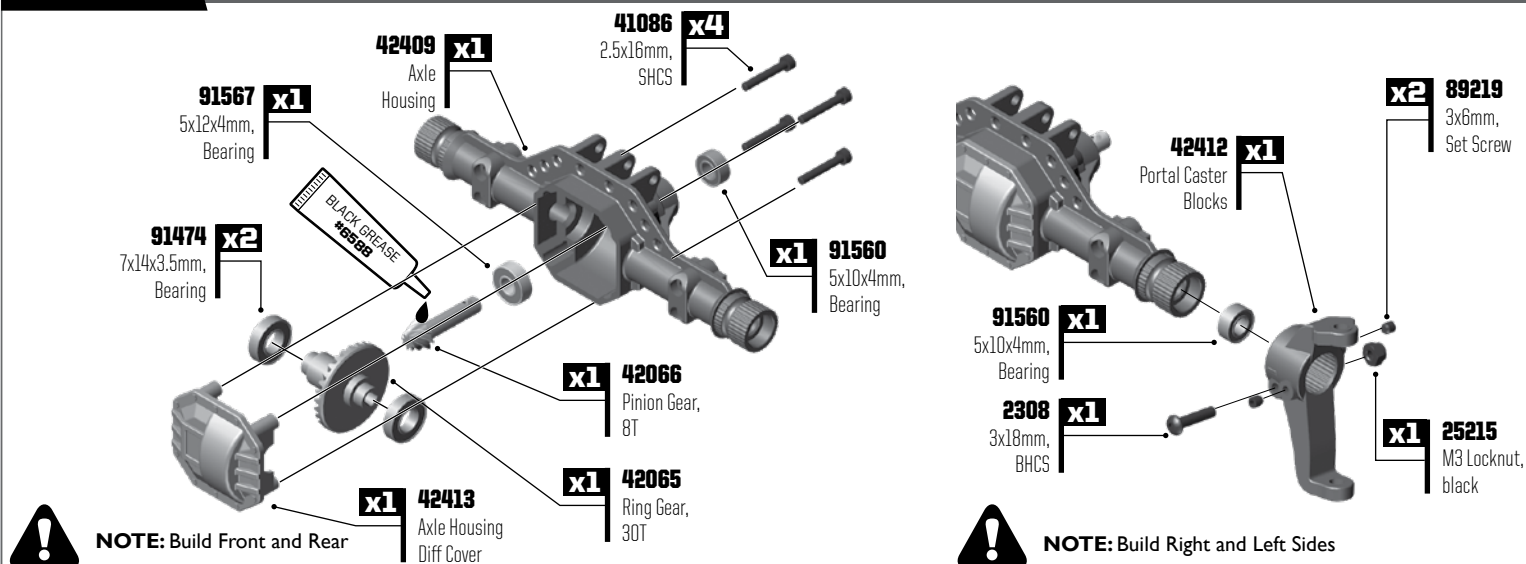
GATE 04

BAG 3 - GEARBOX BUILD



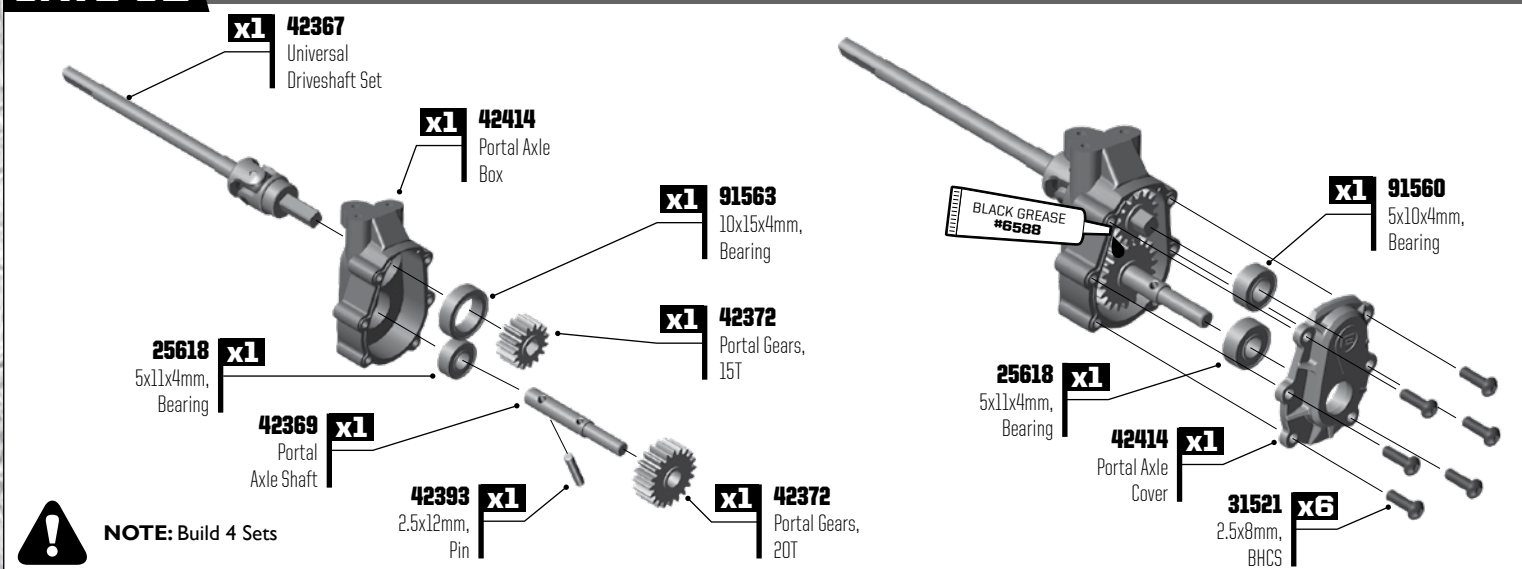
GATE 01

BAG 4 - FRONT AND REAR PORTAL AXLE BUILD



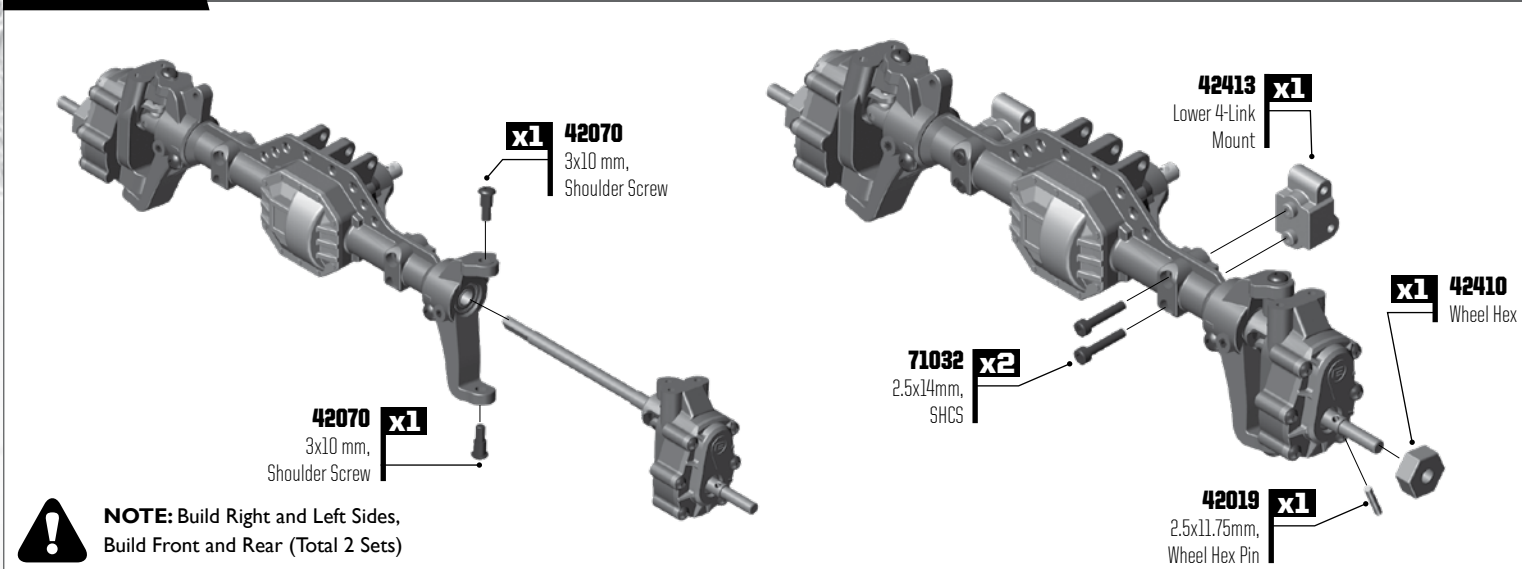
GATE 02

BAG 4 - FRONT AND REAR PORTAL AXLE BUILD



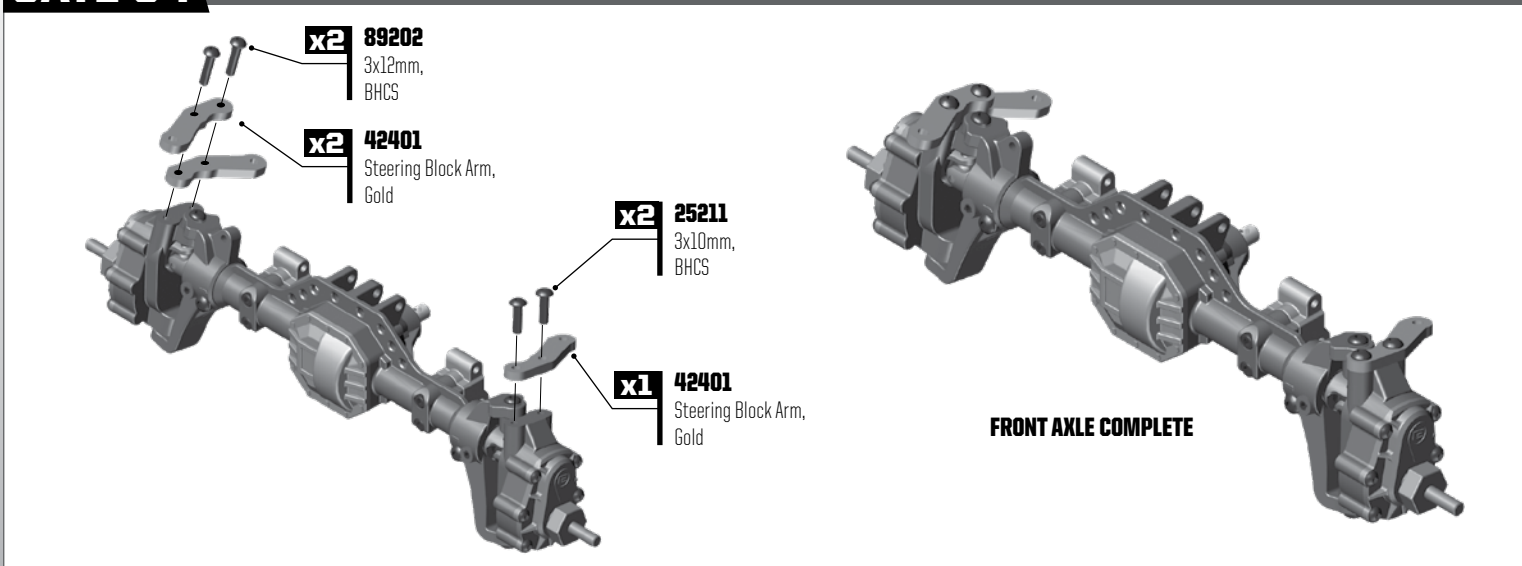
GATE 03

BAG 4 - FRONT AND REAR PORTAL AXLE BUILD



GATE 04

BAG 4 - FRONT PORTAL AXLE BUILD

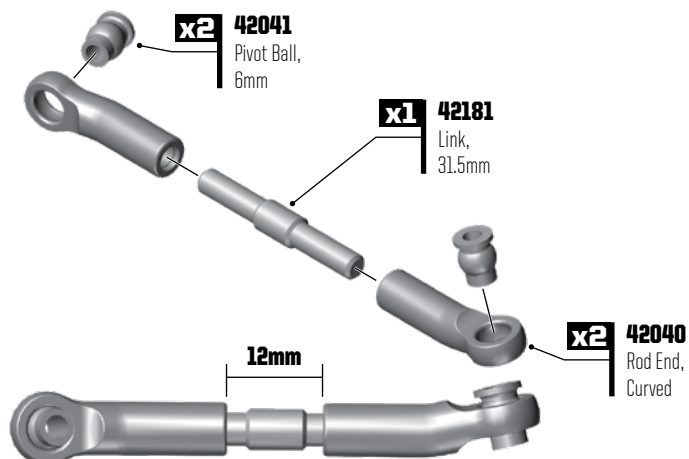


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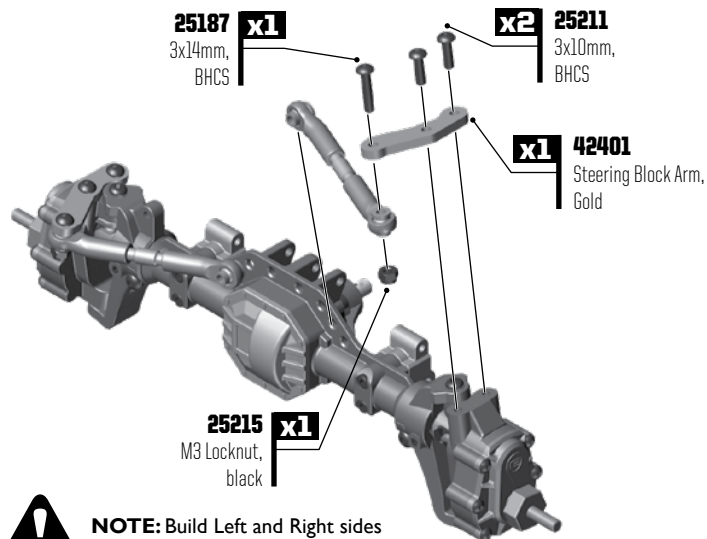
YOUR BUILD BEGINS HERE.

GATE 05

BAG 4 - REAR PORTAL AXLE BUILD



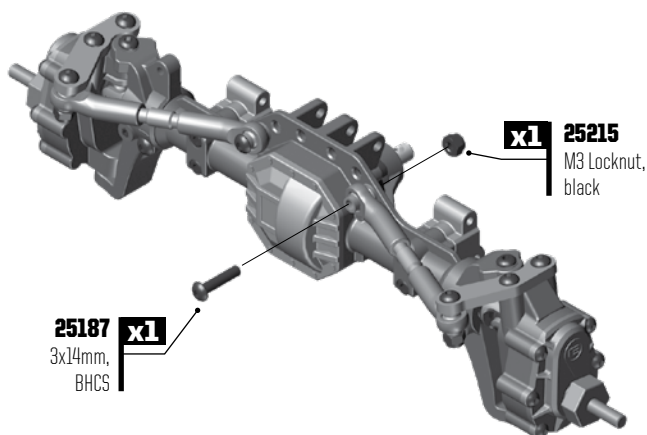
NOTE: Build Left and Right sides



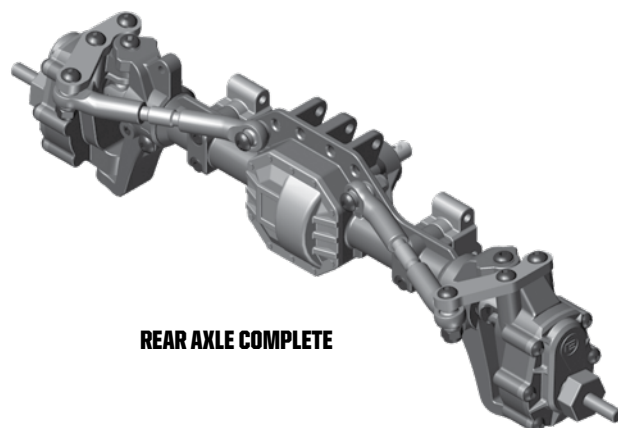
NOTE: Build Left and Right sides

GATE 06

BAG 4 - REAR PORTAL AXLE BUILD



NOTE: Build Left and Right sides



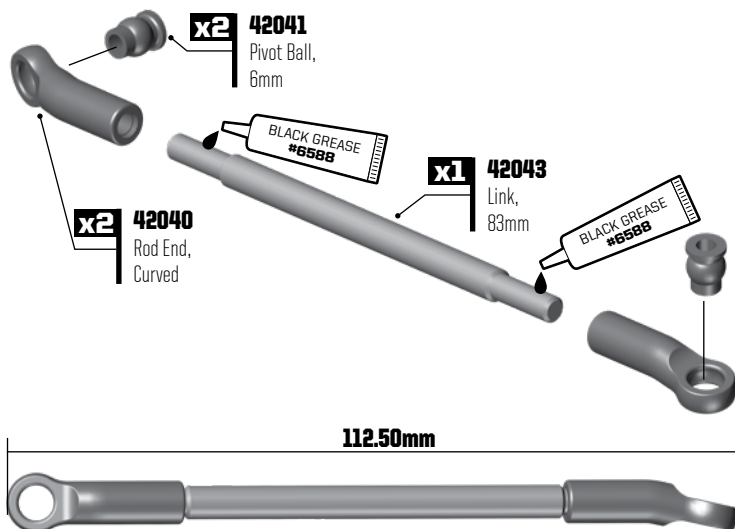
REAR AXLE COMPLETE



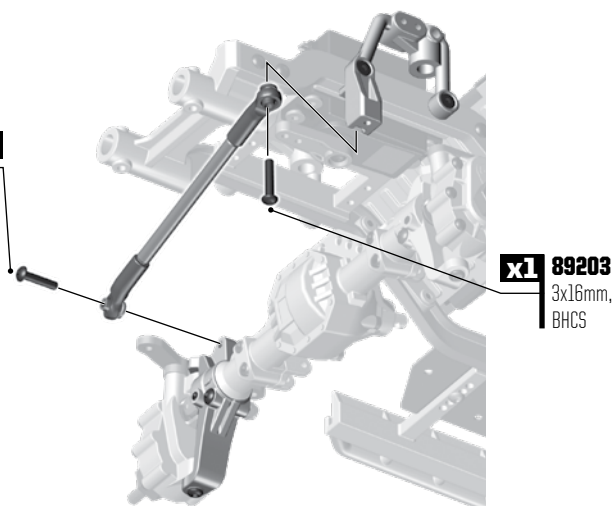
NOTE: Adding Portal Axles to your crawler will increase the torque and reduce your gear ratio. It is recommended to use a 78T spur gear with these Portal Axles in order to achieve the proper ratio for crawling.

GATE 01

BAG 5 - LINKS BUILD



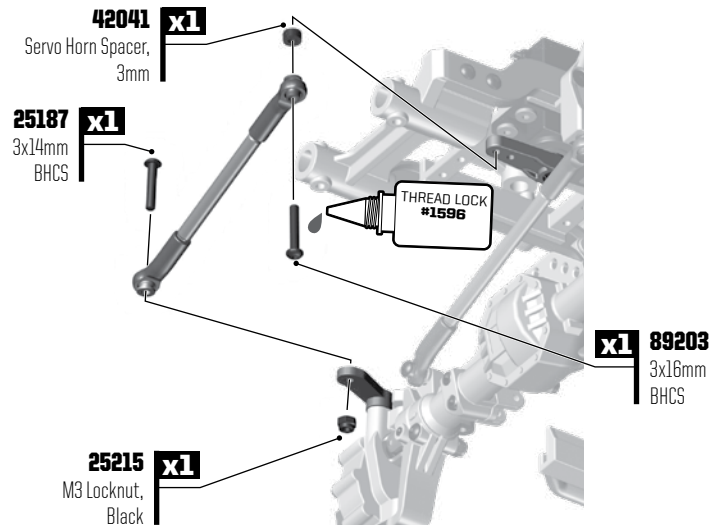
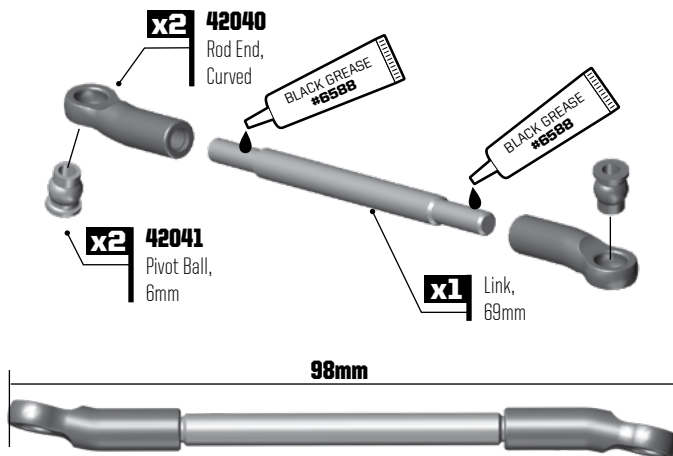
x1 25187
3x14mm,
BHCS



GATE 02 BAG 5 - LINKS BUILD



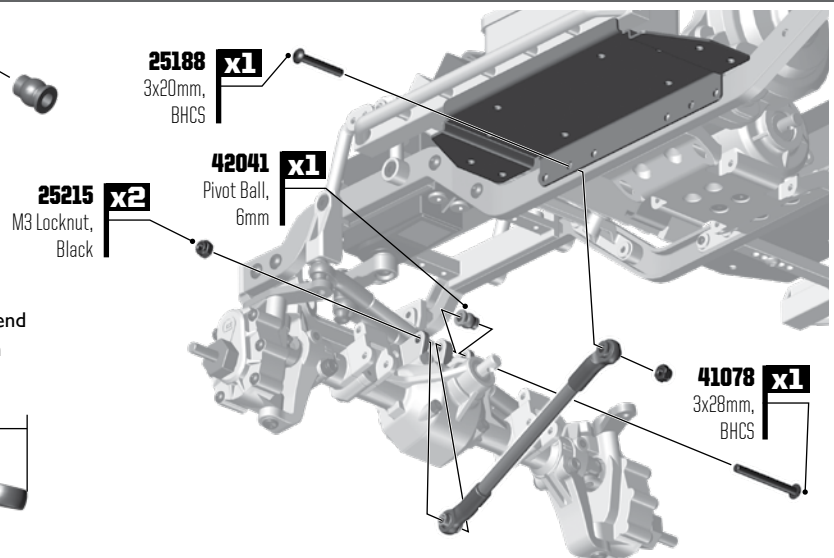
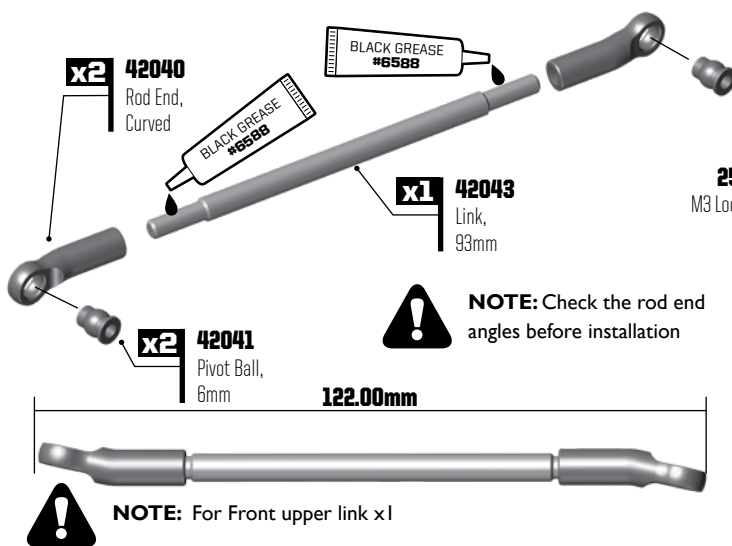
NOTE: Check the rod end angles before installation



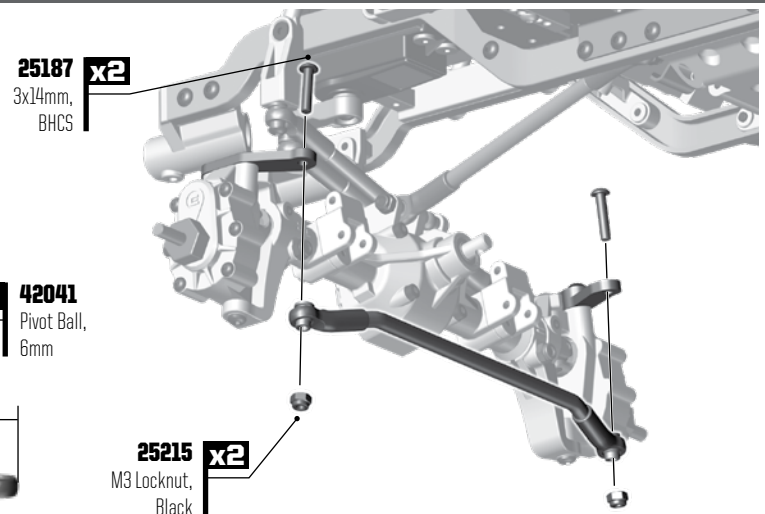
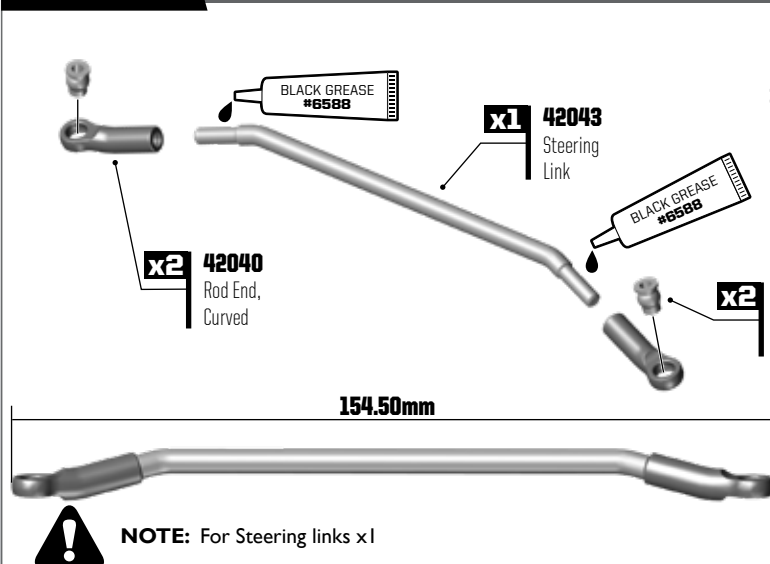
GATE 03 BAG 5 - LINKS BUILD



NOTE: Check the rod end angles before installation

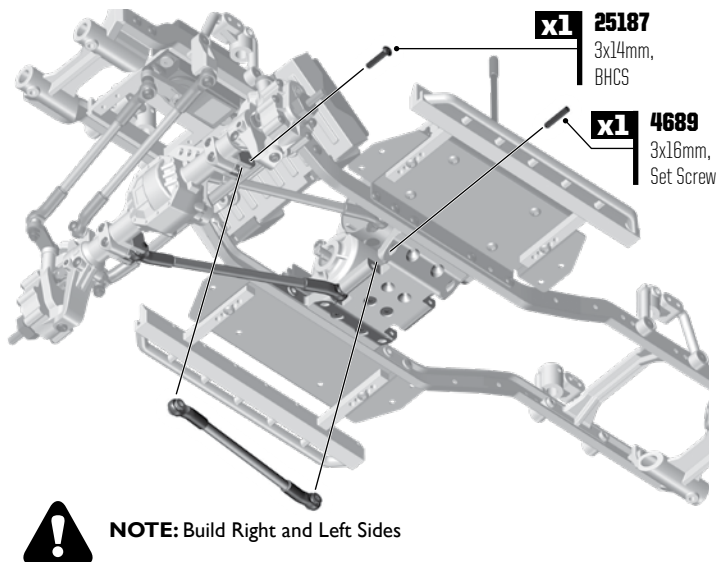
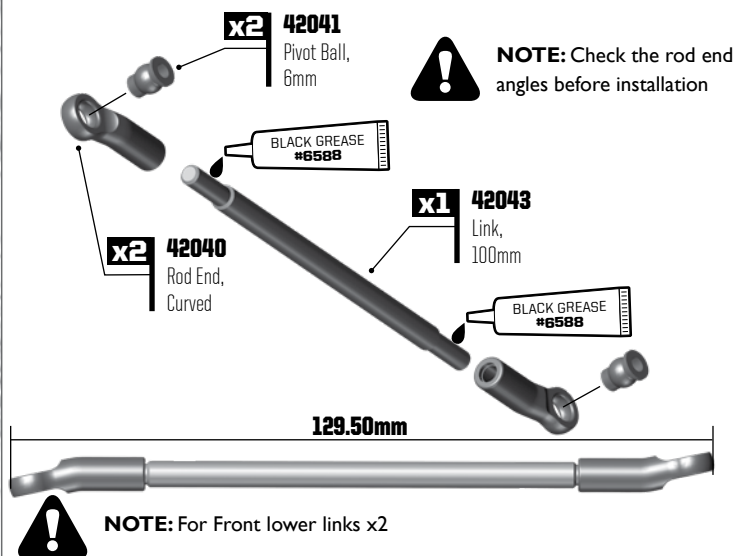


GATE 04 BAG 5 - LINKS BUILD



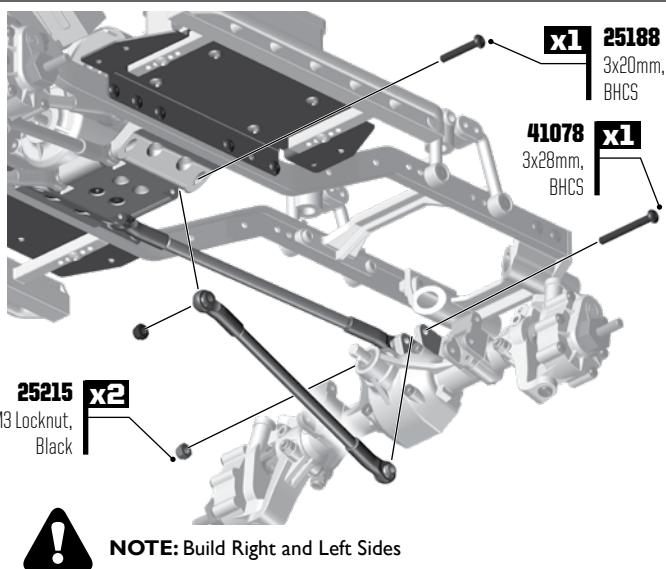
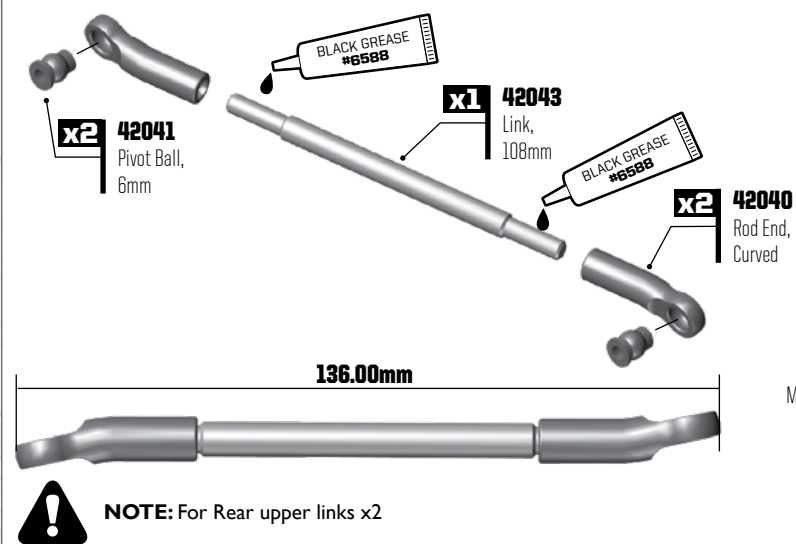
GATE 05

BAG 5 - LINKS BUILD



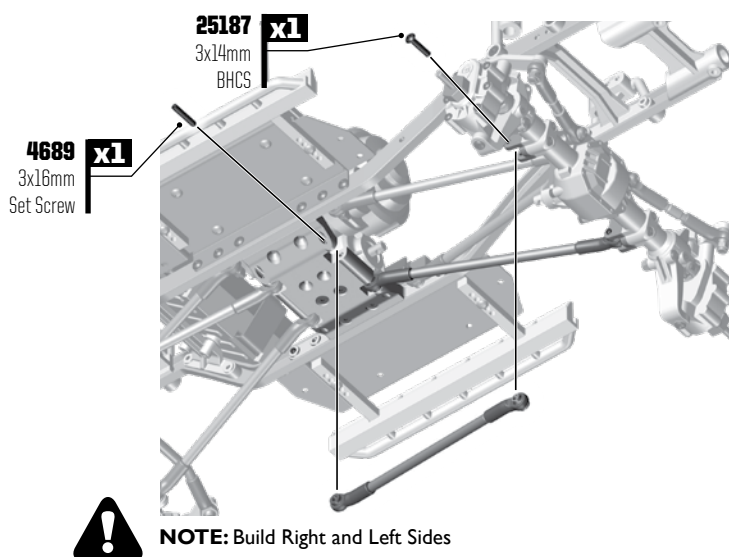
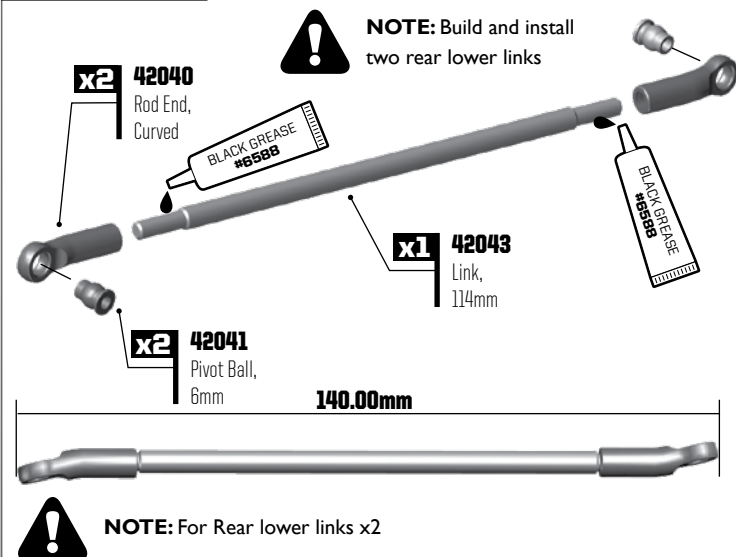
GATE 06

BAG 5 - LINKS BUILD

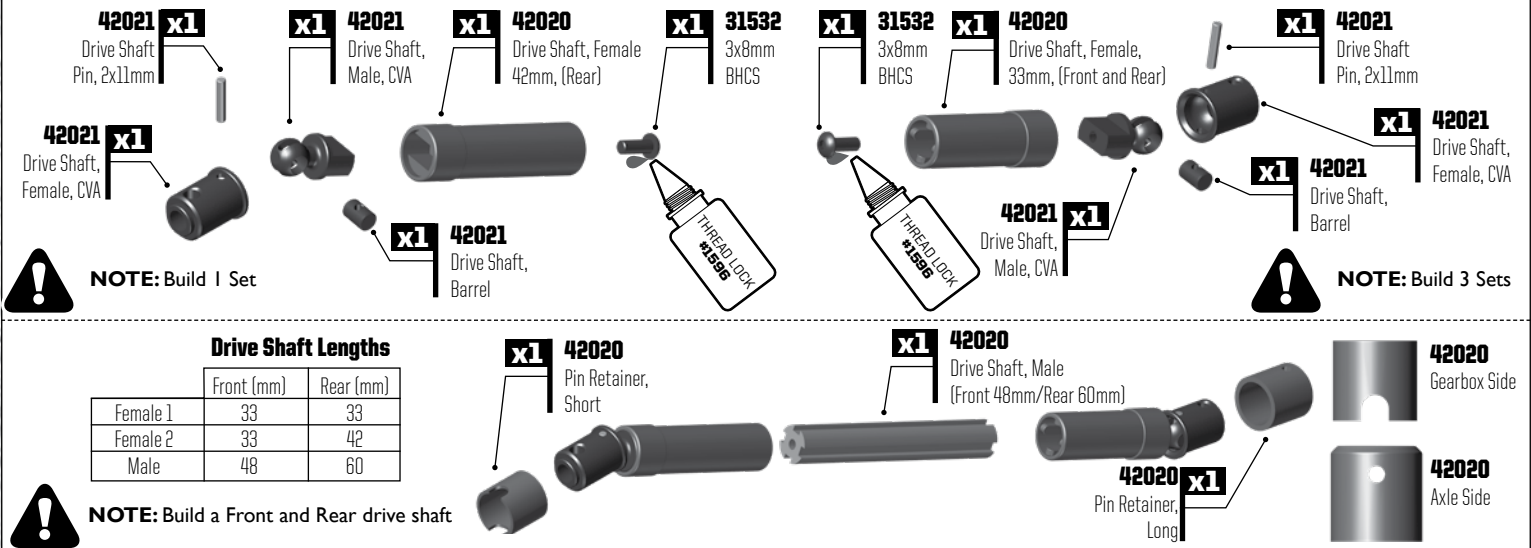


GATE 07

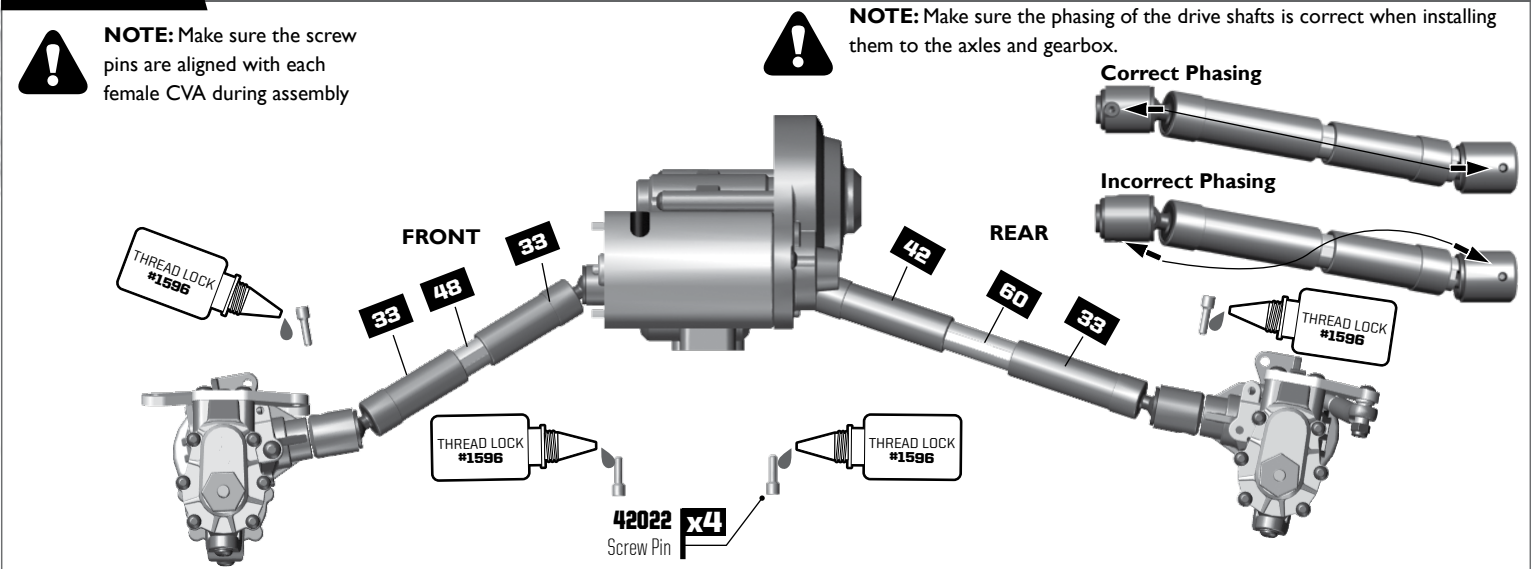
BAG 5 - LINKS BUILD



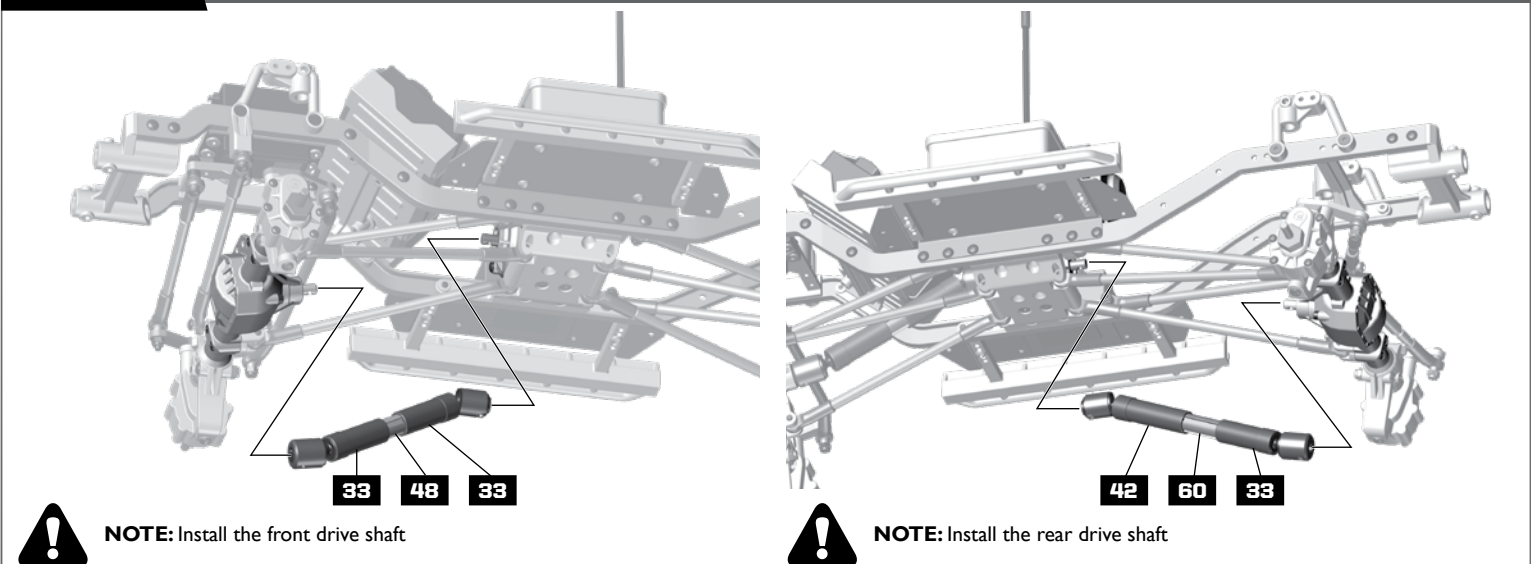
GATE 01



GATE 02 BAG 6 -DRIVE SHAFTS BUILD

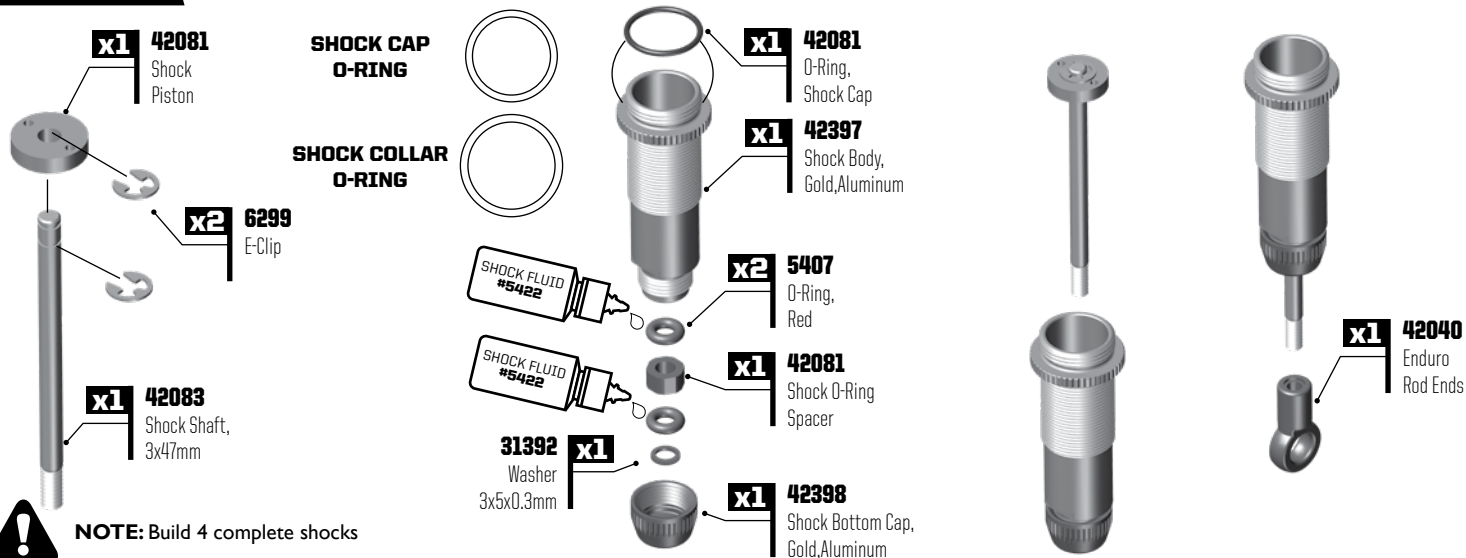


GATE 03 BAG 6 -DRIVE SHAFTS BUILD



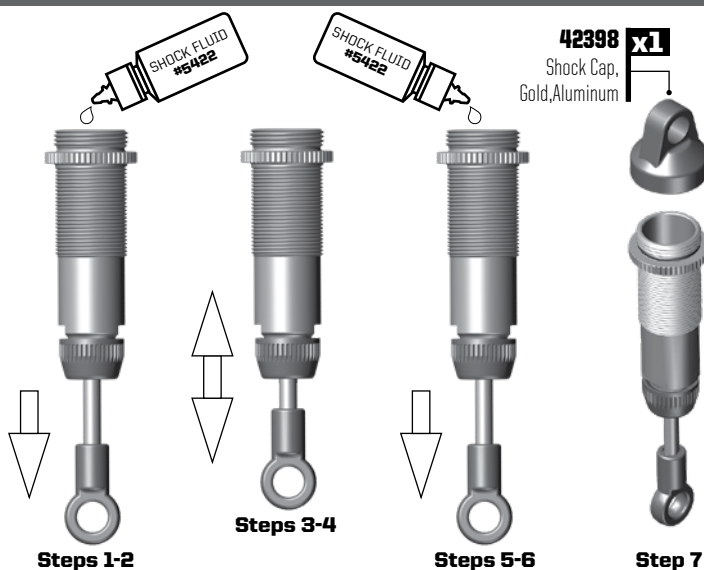
GATE 01

BAG 7 - SHOCK BUILD



GATE 02

BAG 7 - SHOCK BUILD

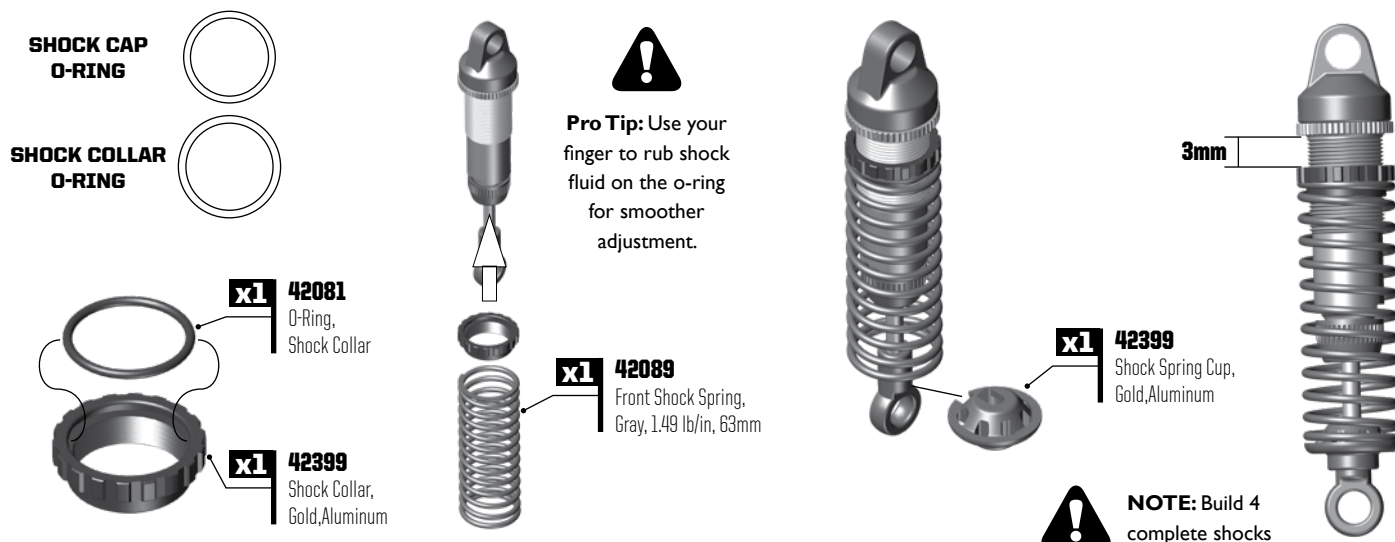


Shock Bleeding Steps:

1. Pull shock shaft down.
2. Fill shock body 3/4 full with silicone 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. 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.
- 12.

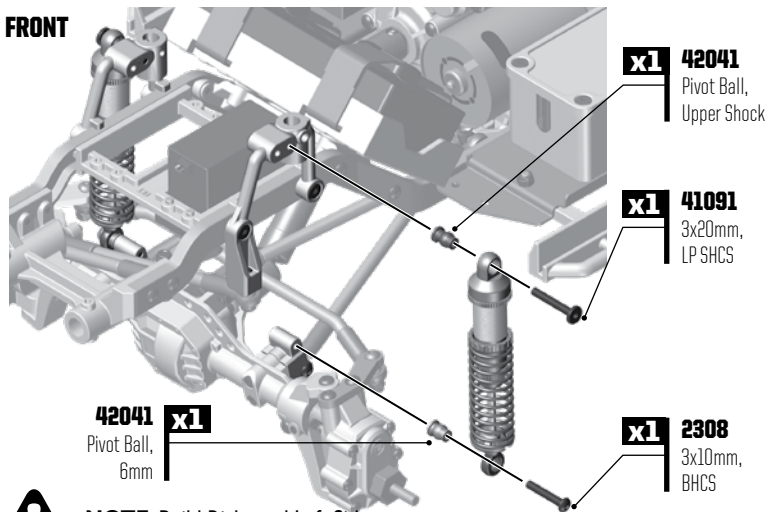
GATE 03

BAG 7 - SHOCK BUILD



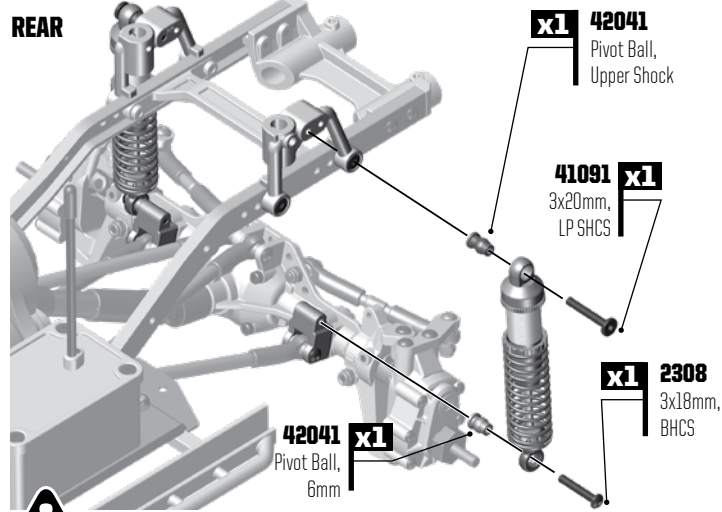
GATE 04 BAG 7 - SHOCK BUILD

FRONT



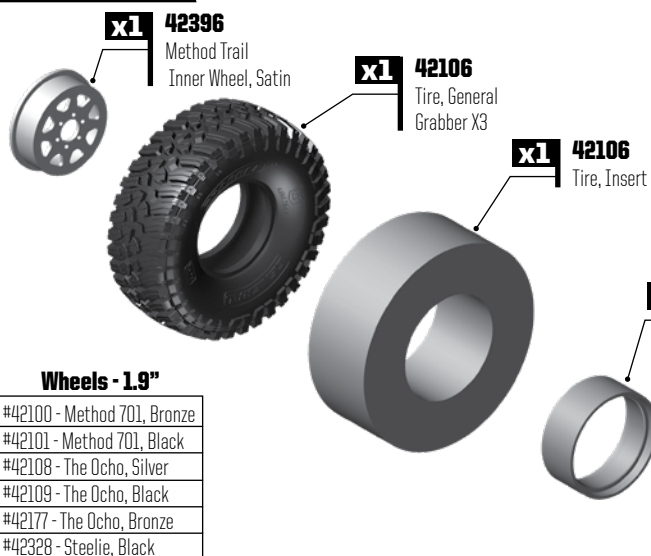
NOTE: Build Right and Left Sides

REAR



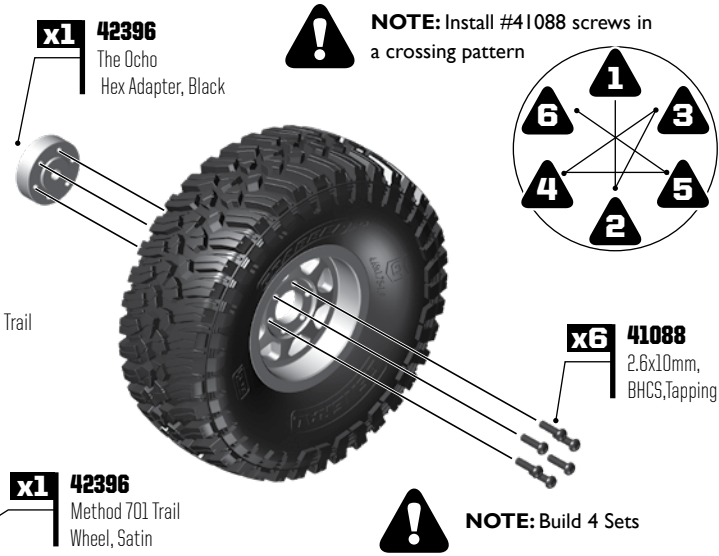
NOTE: Build Right and Left Sides

GATE 01 BAG 8 - WHEELS & TIRES

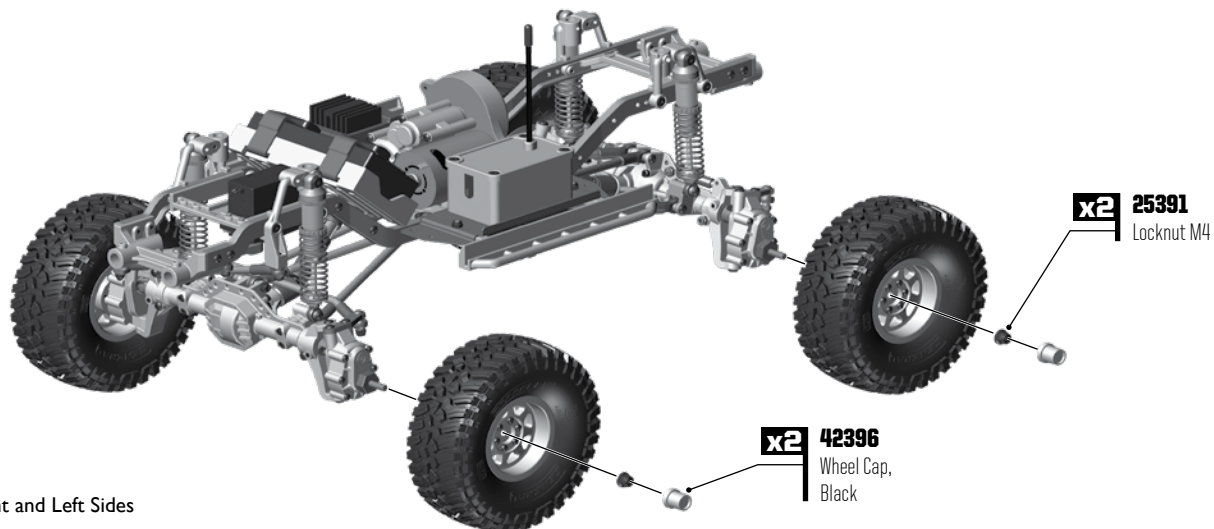


Wheels - 1.9"

| |
|-----------------------------|
| #42100 - Method 701, Bronze |
| #42101 - Method 701, Black |
| #42108 - The Ocho, Silver |
| #42109 - The Ocho, Black |
| #42177 - The Ocho, Bronze |
| #42328 - Steelie, Black |



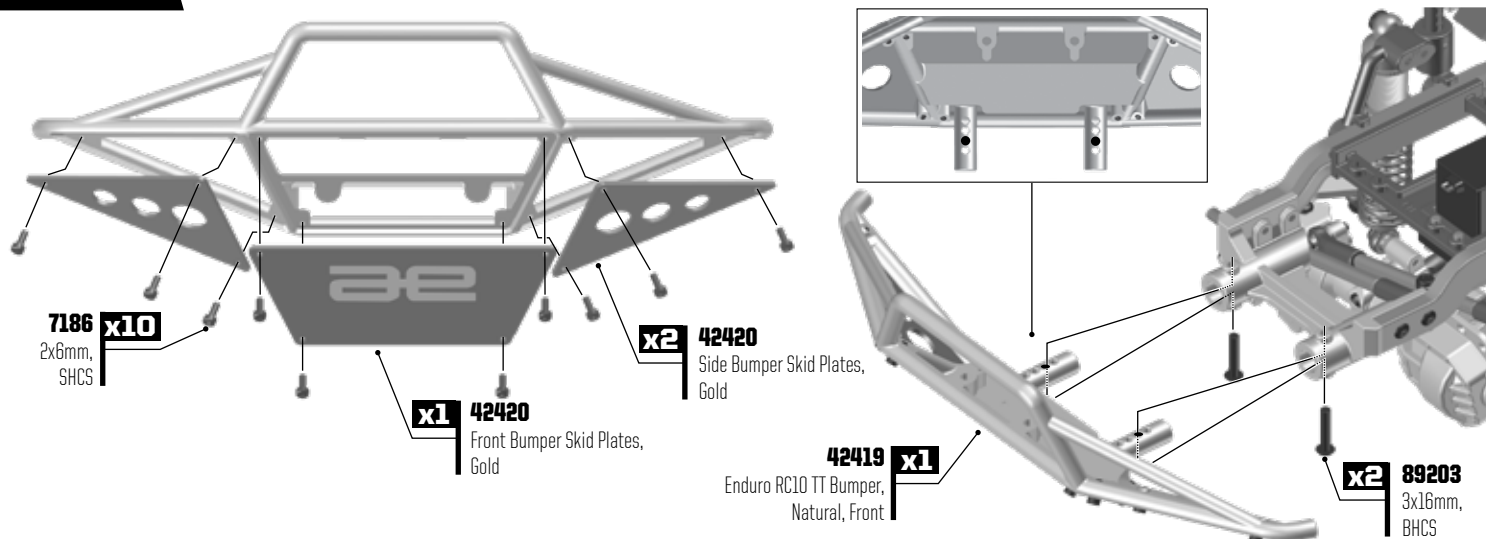
GATE 02 BAG 8 - WHEELS & TIRES



NOTE: Build Right and Left Sides

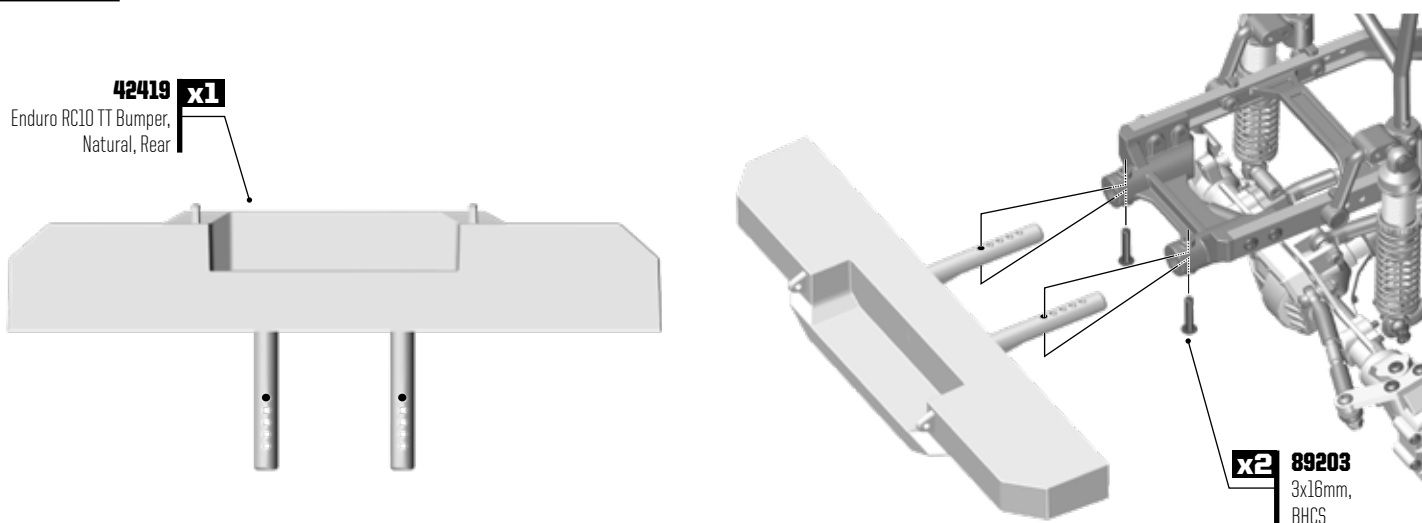
GATE 01

BAG 10 - FRONT BUMPER BUILD



GATE 02

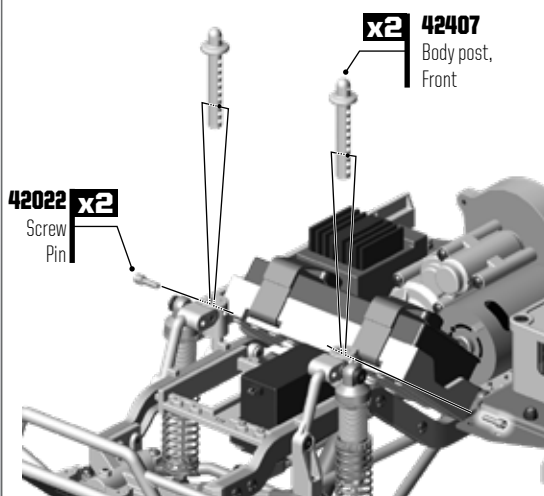
BAG 10 - REAR BUMPER BUILD



GATE 03

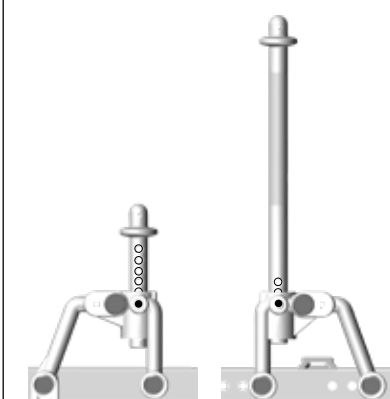
BAG 10 - BODY POST BUILD

FRONT



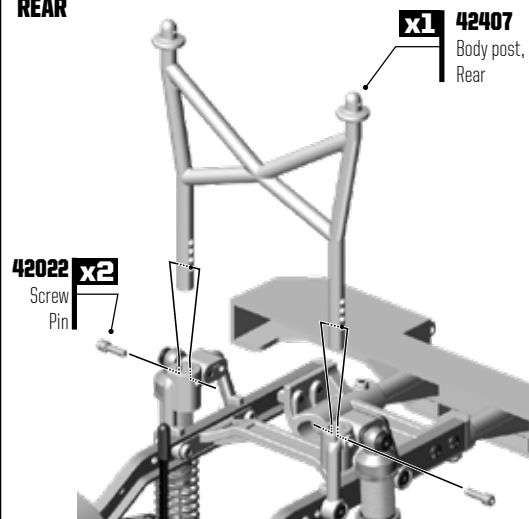
FRONT

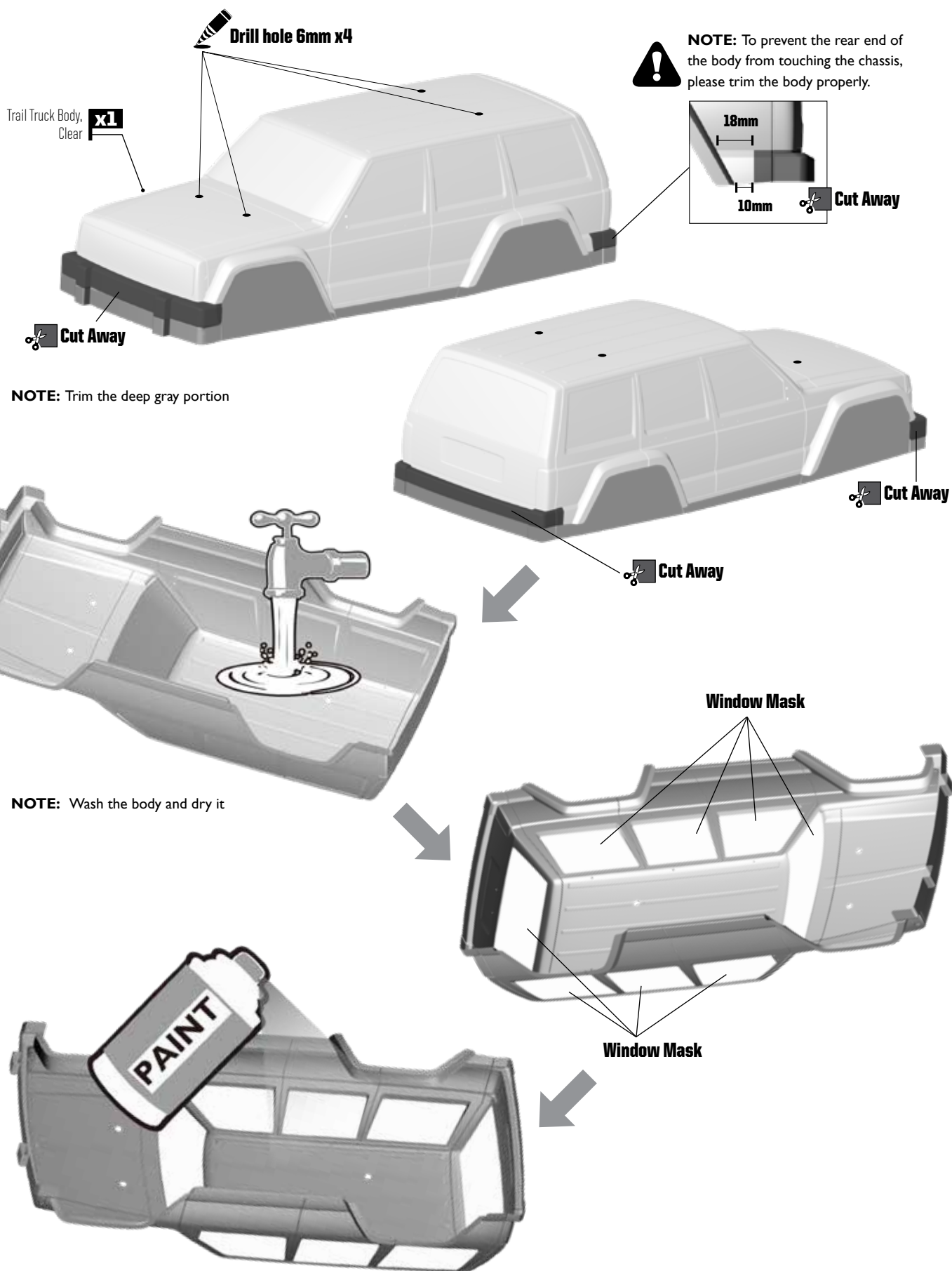
REAR



NOTE: Leave 6 holes Frnrot,
Leave 3 holes Rear

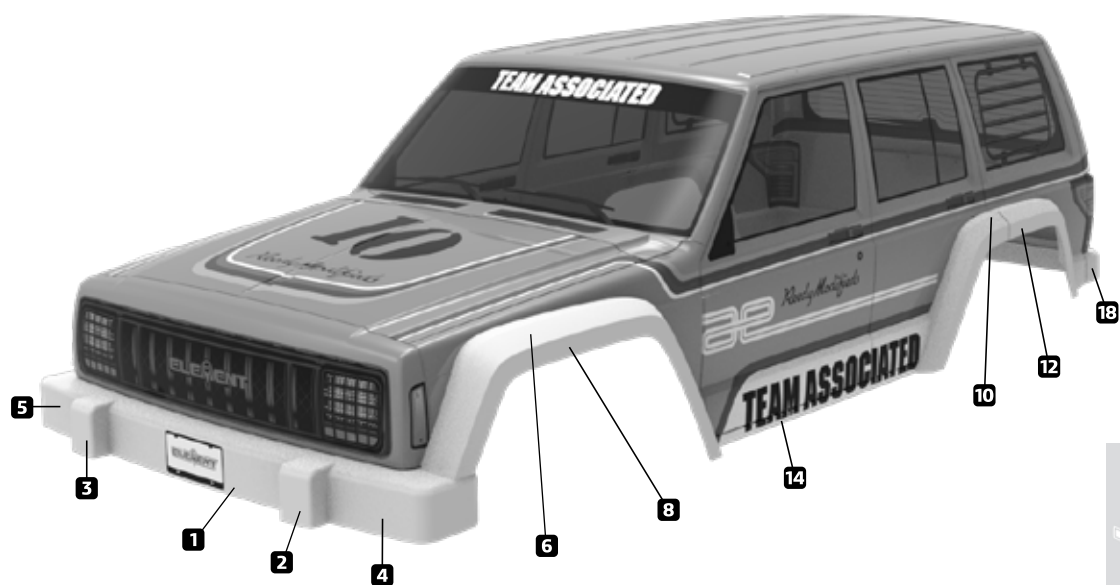
REAR



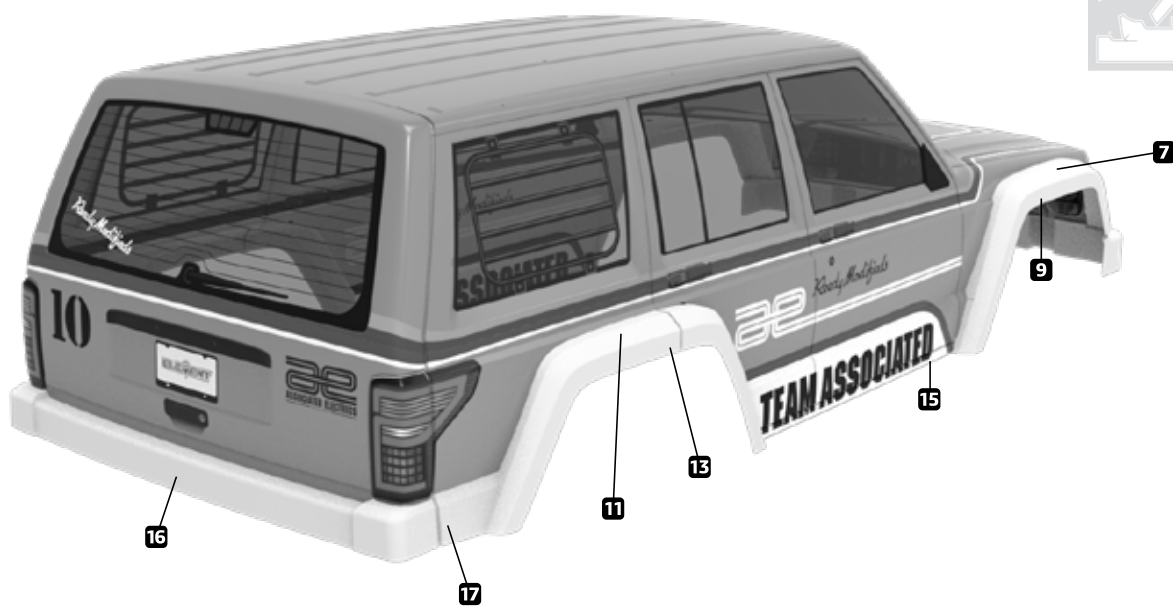
GATE 01**BODY & DECAL**

GATE 02

BODY & DECAL

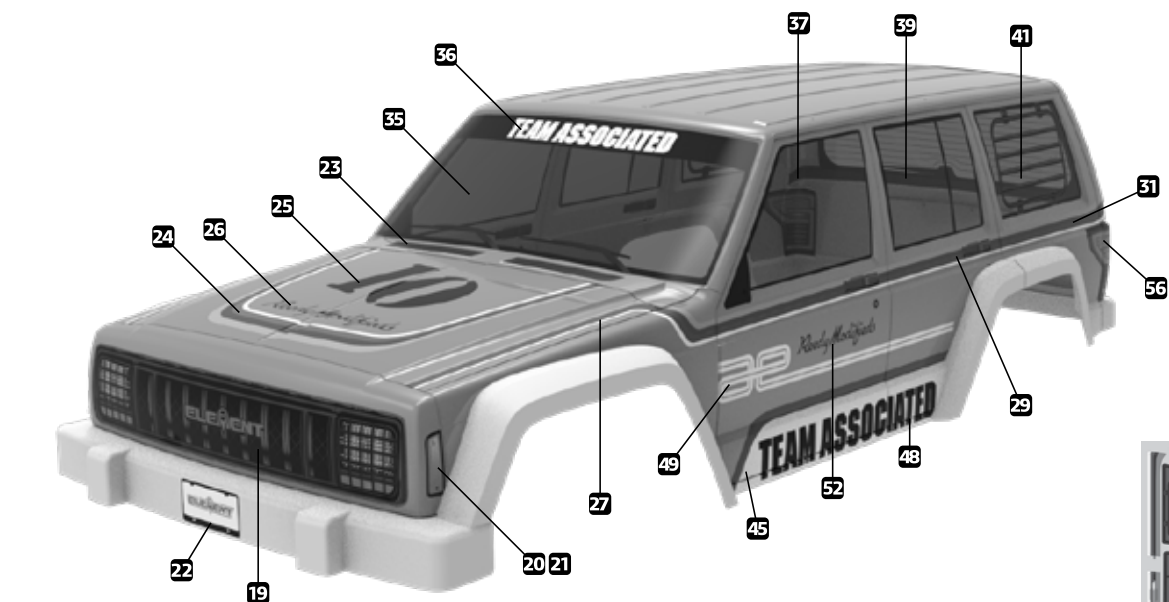


x1 42395
Body Decal-1, White

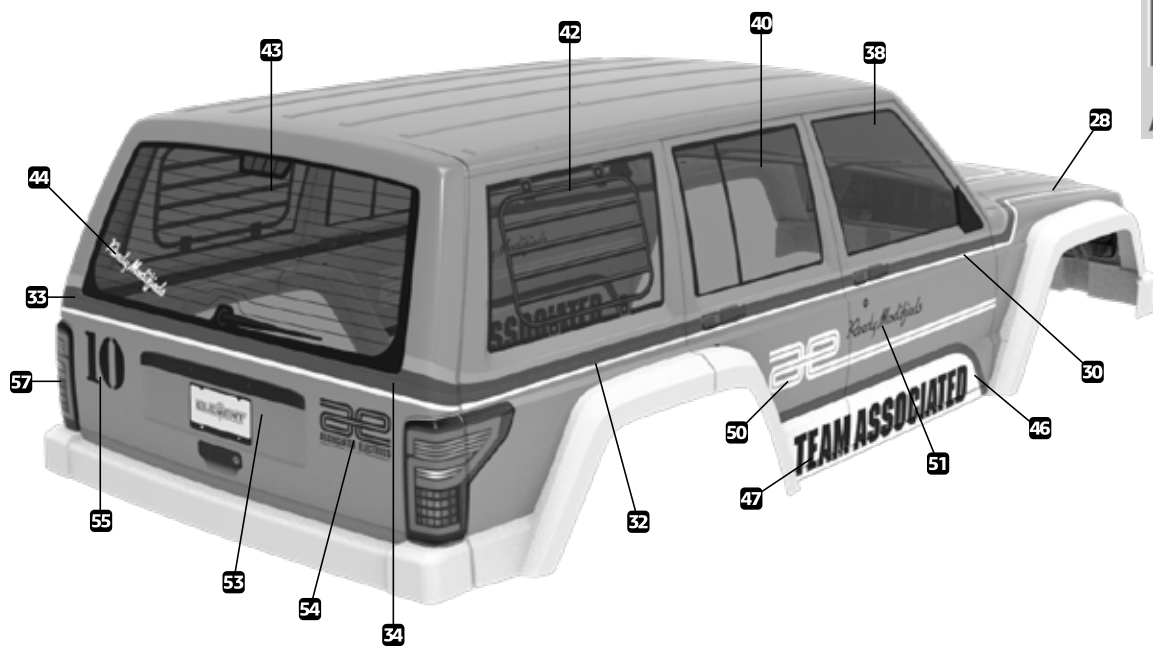
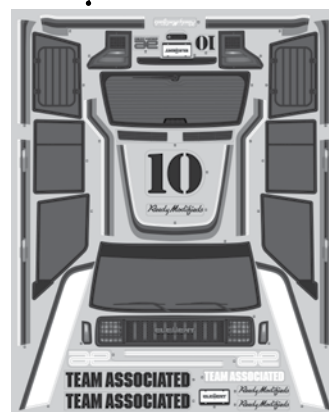


NOTE: Please follow the correct order when applying the decals

GATE 03 BODY & DECAL



x1 42395
Body Decal-2



NOTE: Please follow the correct order when applying the decals

GATE 01

BAG 9 - BODY ACCESSORIES

42418 **x2**
Body
Accessories

x2 **42019**
Pin 11mm

x4 **42418**
Body
Accessories



Drill the roof hole 3.2mm x6

21173 **x6**
Body Clips,
Small

x6 **21530**
O-ring



Drill the hole for the mirror, 2mm x4

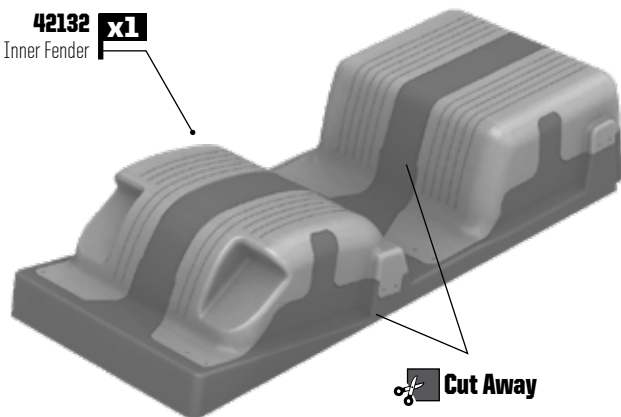


x2 **42243**
Body Accessories,
Mirror

GATE 01

INNER FENDERS

42132 **x1**
Inner Fender



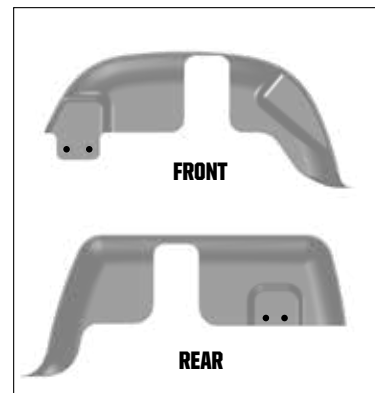
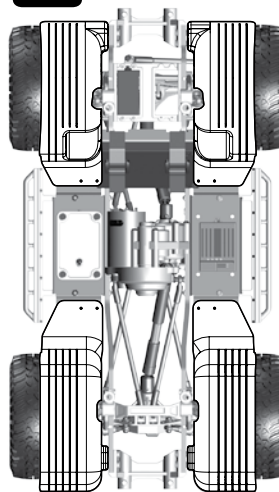
Cut Away



NOTE: Trim the deep gray portion



NOTE: Cut inner fender to desired size along mold lines

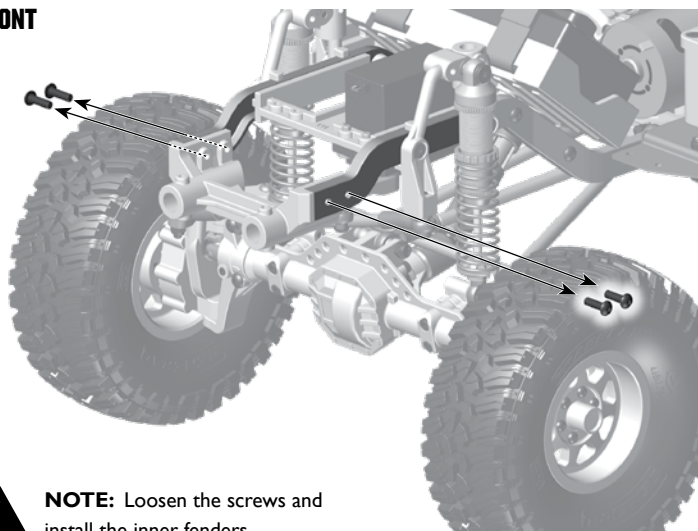


Drill the hole , 3mm x16

GATE 02

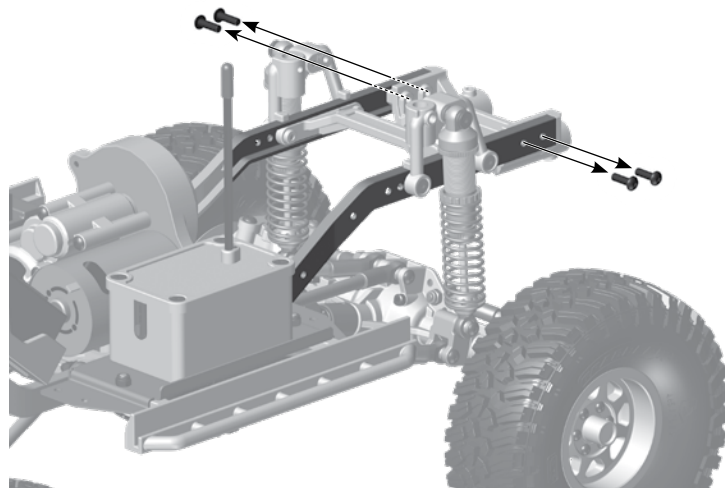
INNER FENDERS

FRONT



NOTE: Loosen the screws and install the inner fenders

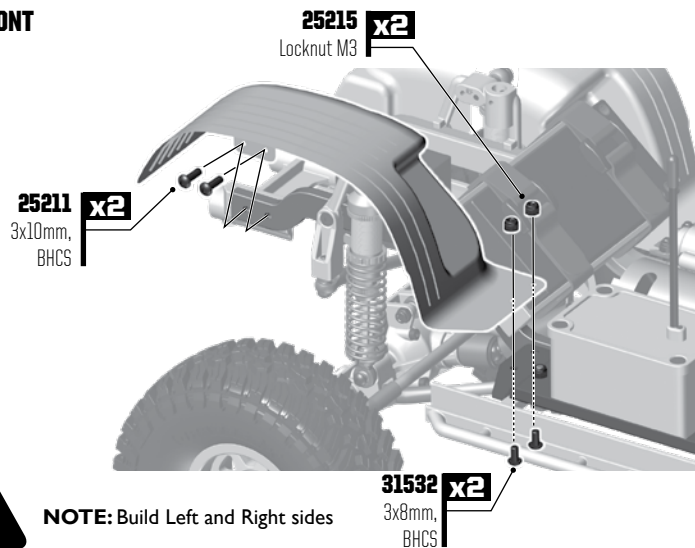
REAR



GATE 03

INNER FENDERS

FRONT



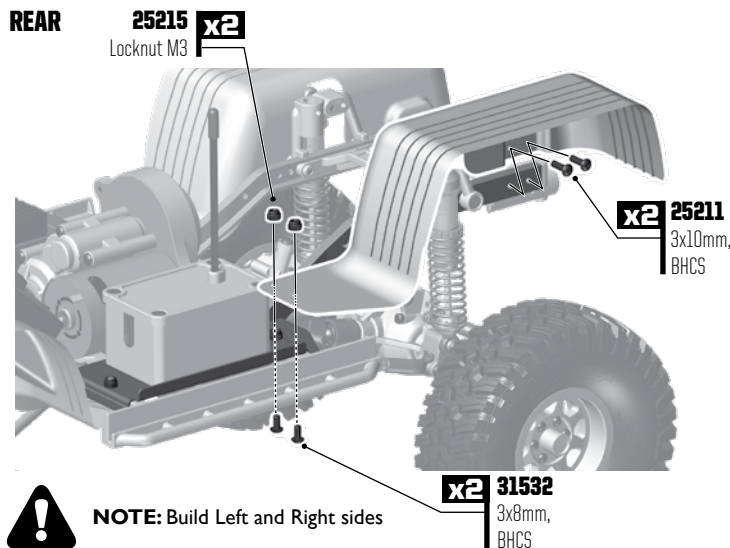
NOTE: Build Left and Right sides

25215 **x2**
Locknut M3

25211 **x2**
3x10mm,
BHCS

31532 **x2**
3x8mm,
BHCS

REAR



NOTE: Build Left and Right sides

25215 **x2**
Locknut M3

25211 **x2**
3x10mm,
BHCS

31532 **x2**
3x8mm,
BHCS

GATE 01**STEALTH X: BUILD CONFIGURATION: MOTOR MOUNT FACING REAR (STOCK)**6332
Body Clips,
Medium**x4****OVERDRIVE:**

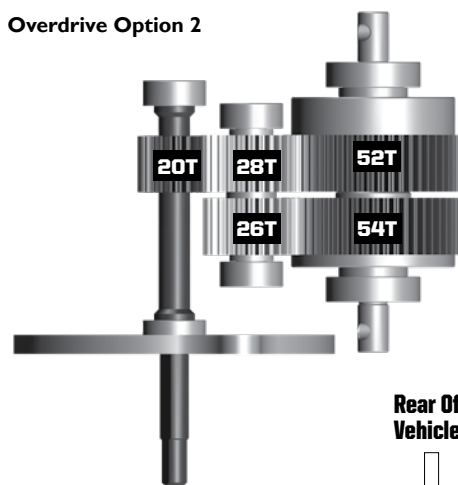
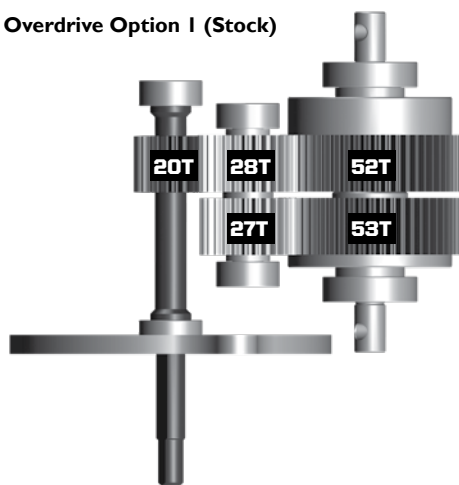
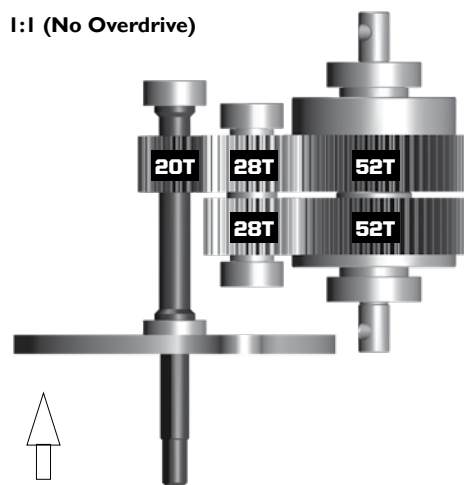
Overdrive is a scenario where the front and rear wheels do not rotate at the same speed. The Stealth X gearbox is designed to allow the front wheels to spin faster than the rear wheels. Overdrive is advantageous when climbing up rock faces because the front tires will want to pull the vehicle up the rock. On descents, the rear tires rotating slower than the front tires will help keep the chassis more stable and keep the rear tires planted on the ground.

Stealth X:

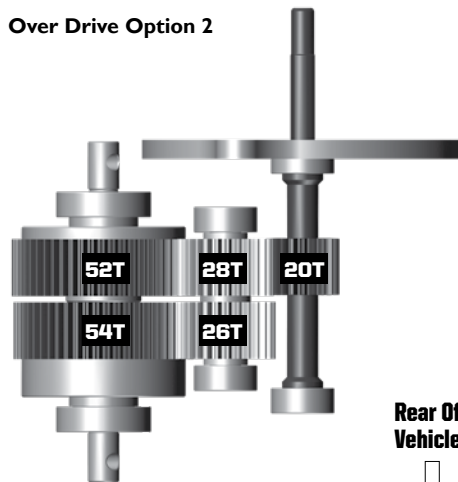
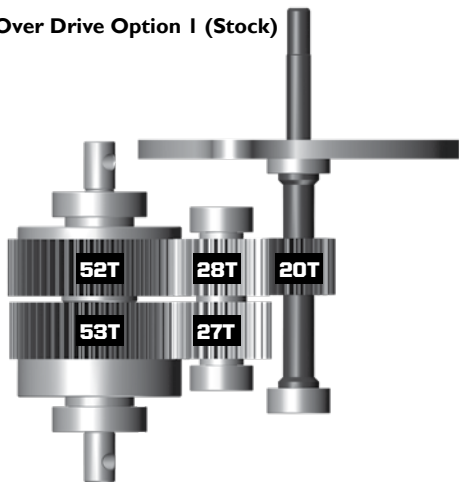
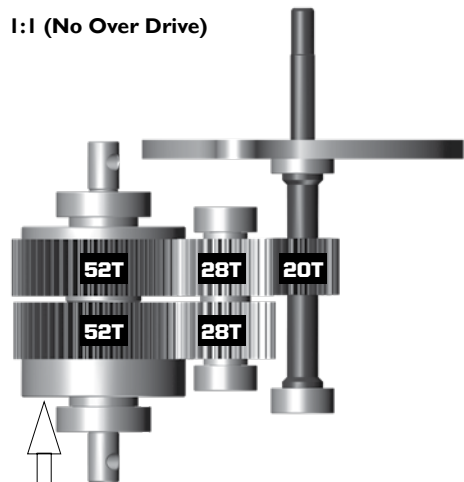
The Stealth X gearbox allows the driver to change the front-to-rear drive ratios with 3 separate ratio adjustments to the rear drive shaft. The driver has the option to flip the gearbox direction (motor mount facing the front). The optional inverse top shaft (#42024) is required.

Please Note:

The 20T top shaft, 28T idler gear, and 52T drive gear will always be meshed together in all 6 gearbox configurations.

GATE 02**STEALTH X: BUILD CONFIGURATION: MOTOR MOUNT FACING REAR (STOCK)****1:1 (No Overdrive)****Overdrive Option 1 (Stock)****Overdrive Option 2**

Front Of Vehicle

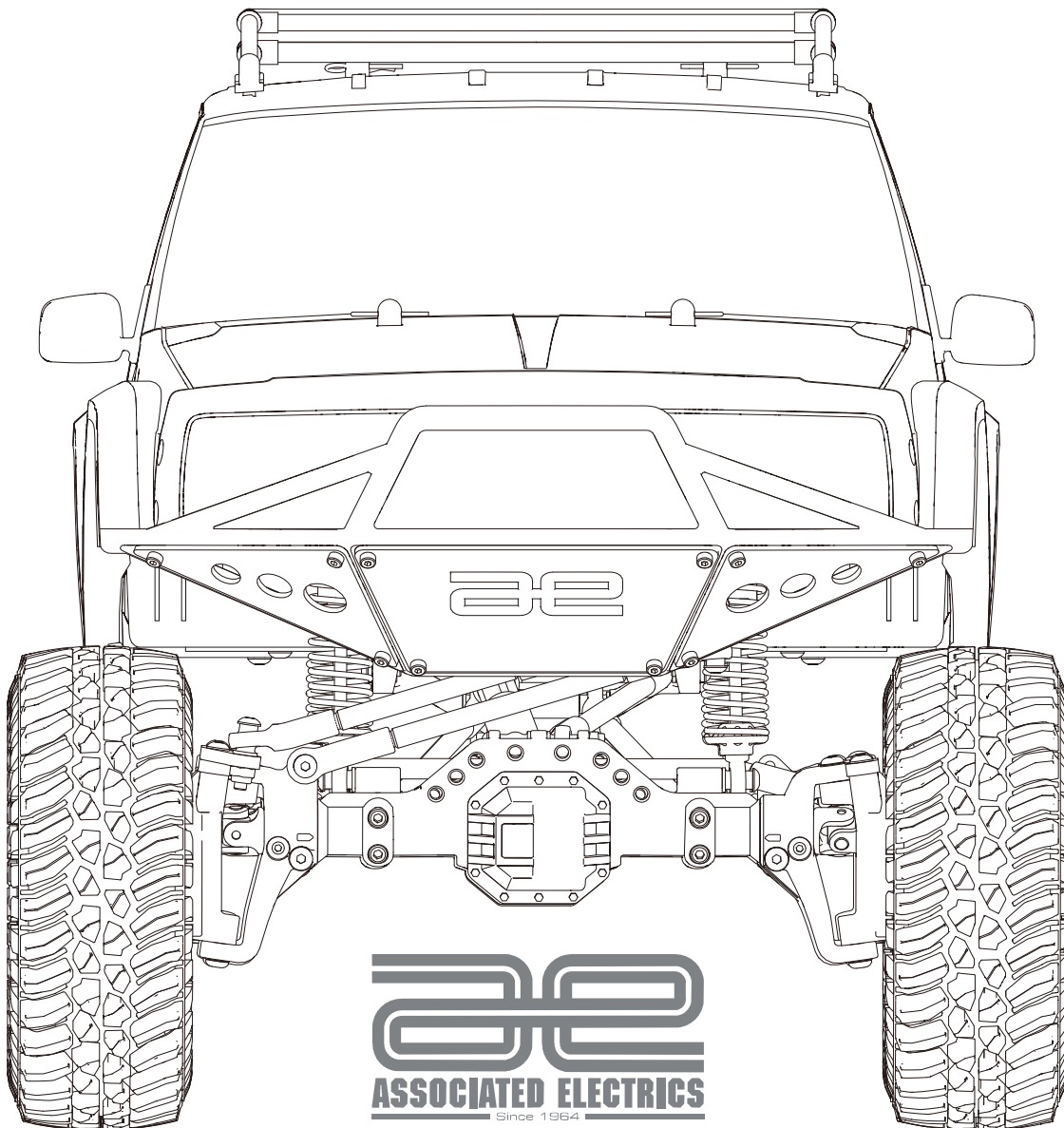
Rear Of Vehicle
GATE 03**STEALTH X: BUILD CONFIGURATION: MOTOR MOUNT FACING FRONT (OPTIONAL - REQUIRES #42024 - TOP SHAFT)****1:1 (No Over Drive)****Over Drive Option 1 (Stock)****Over Drive Option 2**

Front Of Vehicle

Rear Of Vehicle

NOTE

NOTE



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