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#### **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.

# **ZUUL RTR**

A PERFORMANCE RIG BUILT TO ENDURE. When hitting the trail, you want to do it with performance and confidence. So, we bring you the all-new Enduro Zuul Trail Truck RTR!

Aimed towards the serious RC rock crawler enthusiast, the new Enduro Zuul Trail Truck RTR is packed full of performance features that are sure to impress.

What makes the Enduro Zuul Trail Truck special? The all-new Gatekeeper Suspension package (GKS<sup>™</sup>)! This package consists of rear trailing arms that move the shocks forward, allowing a larger window for shock tuning and providing improved weight bias. The trailing arms are paired with a rear anti-roll bar for a more stable and consistent suspension when crawling on the rocks. An adjustable aluminum track bar mount firmly bolted to the chassis rail gives the Enduro Zuul more reliable and responsive steering without the flex. Our shock mount inserts with multiple mounting positions allow for precise suspension tuning, whether they're moving the shocks up, down, forward, or back.

The performance doesn't stop there. The Enduro Zuul Trail Truck is built on our proven stamped steel C-channel Enduro chassis and retains the same awesome features as before.

The behind-the-axle (BTA) steering link greatly improves approach angle and front-end clearance, making rough terrain much easier to handle. 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 and reliable power will not be an issue.

With all these amazing features packed in one box, we know the Enduro Zuul Trail Truck RTR is a high-performance rock crawling machine that's ready to take on the terrain. – Are you?

# **FEATURES**

- Behind-the-axle (BTA) steering
- Aluminum steering plates
- CMS (Chassis Mounted Steering)
- Steel 25T servo horn
- Integrated servo winch mount
- Threaded aluminum shock bodies
- Stamped steel frame rails
- Aluminum motor plate
- Optimized ball cups for more fluid axle articulation
- Telescopic driveshafts front and rear
- · Extruded aluminum driveshaft splines
- One-piece rear axle design
- · Splined front axle with adjustable caster

- Universal front drive axles
- Machined input pinion gear
- Metal ring gear
- Machined steel top shaft
- Heavy duty 5mm diameter steel links
- · Metal ball bearings
- · 12mm steel wheel hexes
- Shock mount inserts
- Aluminum track bar that is mounting directly to the steel frame rail
- Adjustable front track bar
- GKS [trailing arm rear suspension]
- Anti-roll bar included for the rear

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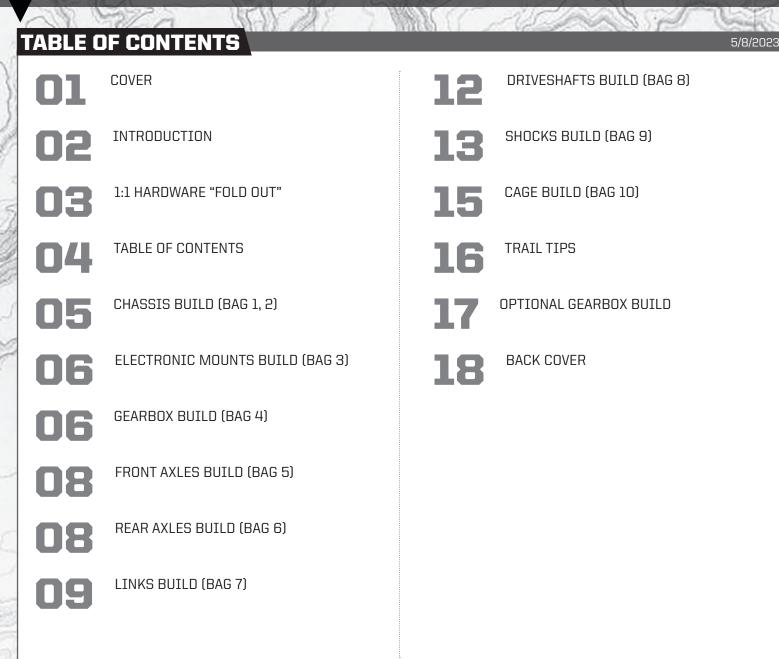
03

ARDWARE	1:1 SCALE \
FLAT HEAD SCREWS	S (FHCS)
	<b>2.5x10mm</b> (31350)
	<b>2.5x14</b> mm (41077)
	<b>3x8mm</b> (25201)
	<b>3x10mm</b> (25202)
	<b>3x12</b> mm (25203)
	<b>3x14mm</b> (89208)
	<b>3x20mm</b> (89210)
	<b>3x24mm</b> (89233)
SOCKET HEAD SCR	EWS (SHCS)
	Aluminum (8566)
	<b>2x8mm</b> (7187)
	<b>2.5x6mm</b> (41079)
	<b>2.5x8</b> (89222)
	<b>2.5×10</b> (41087)
	<b>2.5×14</b> (71032)
	<b>2.5x16</b> (41086)

LP SOCKET HEAD	SCREWS (LP SHCS)
	<b>3x6mm</b> (41089)
	<b>3x10mm</b> (41090)
	<b>3x20mm</b> (41091)
SET SCREWS	
	<b>3x3mm</b> (25225)
	<b>3x16</b> mm (4689)
PIVOT BALLS	
	Pivot Ball, 6mm (42041)
FT FT	<b>Pivot Ball, 6</b> mm (42056)
Pivot B	Ball, Upper Shock (42041)
FT Pivot B	Ball, Upper Shock (42055)

BUTTON HEAD SCREW	ED WITH OPTIONAL	S
	2.5x10mm (41088)	(
	<b>3x5mm</b> (31530)	
	<b>3x6</b> mm (31531) <b>Titanium</b> (91580)	
	<b>3x8mm</b> (31532) <b>Titanium</b> (91581)	
	3x10mm (25211) Titanium (91582)	
	<b>3x12</b> mm (89202) Titanium (91583)	
	<b>3x14mm</b> (25187) <b>Titanium</b> (91584)	
	<b>3x16</b> mm (89203) <b>Titanium</b> (91585)	ſ
	<b>3x18mm</b> (2308)	
	<b>3x20</b> mm (25188) <b>Titanium</b> (91587)	
	<b>3x22</b> mm (25189)	
	<b>3x24</b> mm (89204)	
	<b>3x28</b> mm (41078)	73r
	M3 Nuts (91477) M3 Locknuts (25215) Aluminum (31550)	
M4 Lock	nut W/Flange (25391)	
BEARINGS		
	5x10x4mm (91560)	
$\bigcap$	7x14x3.5mm (91474)	

1512	ASSE RA
EPLACEMENT PAR	TNUMBERS
SHIMS AND	WASHERS
	<b>3x7mmx1mm</b> (42260)
$\bigcirc [$	<b>3x7mmx2mm</b> (42260)
0	<b>3x7x3mm</b> (42260)
$\bigcirc \square$	<b>3x7x5mm</b> (42260)
$\bigcirc \square$	<b>3x7x7mm</b> (42260)
	Drive Gear Shim (42027)
MISC. SCRE	WS
Shou	lder Screw 3x4x10mm (42070)
	<b>Screw Pin</b> (42022)
LINKS	
93r 83mm 73mm	114mm



# **USING THIS MANUAL**



04

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



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



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

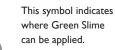


This symbol indicates a Trail Tip.





This symbol indicates where Black Grease should be applied.



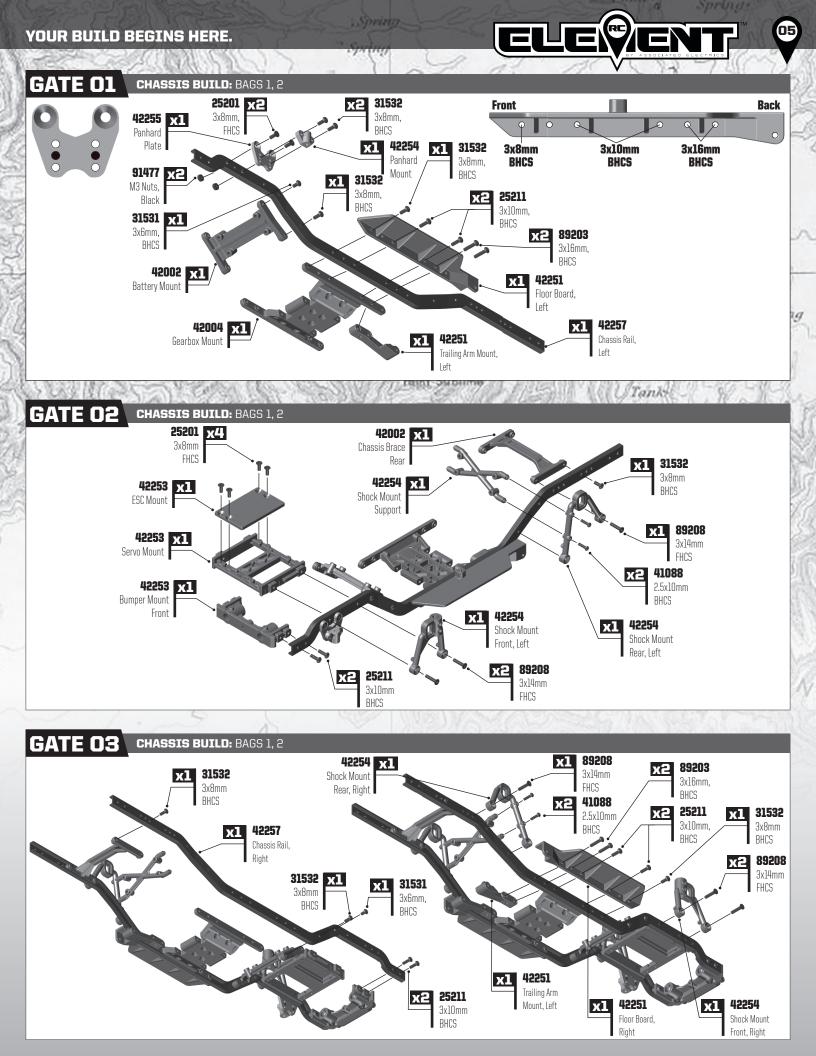


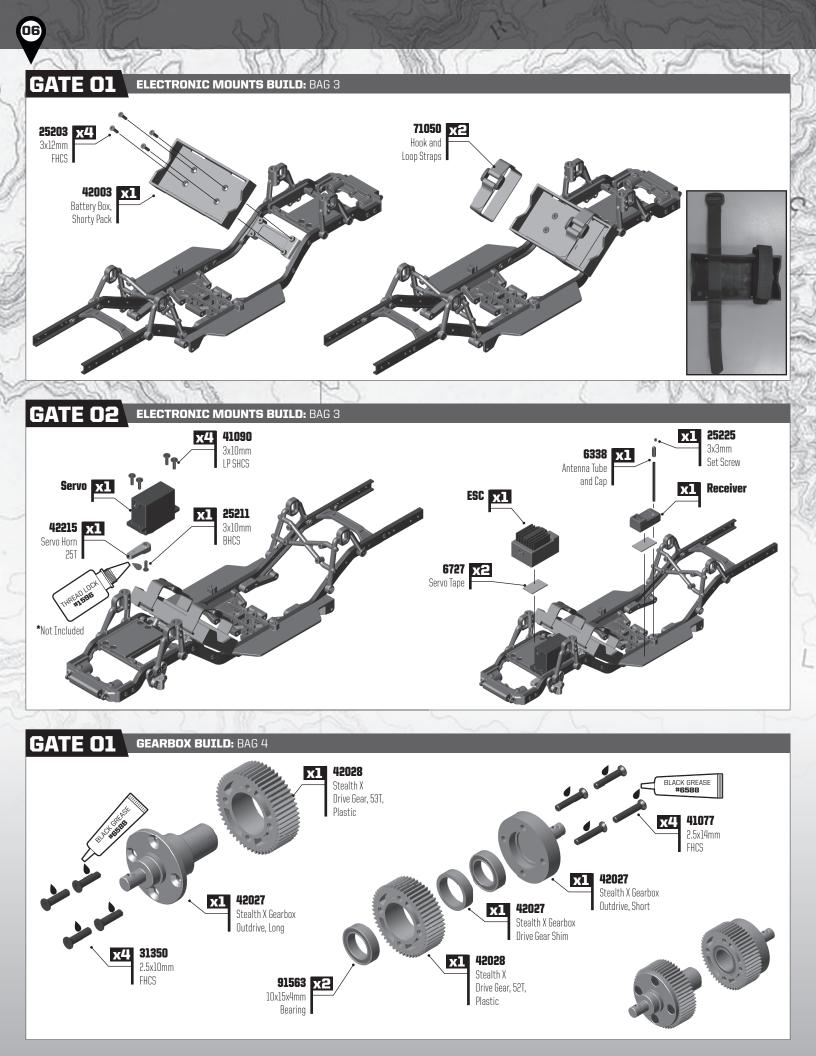
This symbol indicates where Thread Lock Adhesive should be applied.

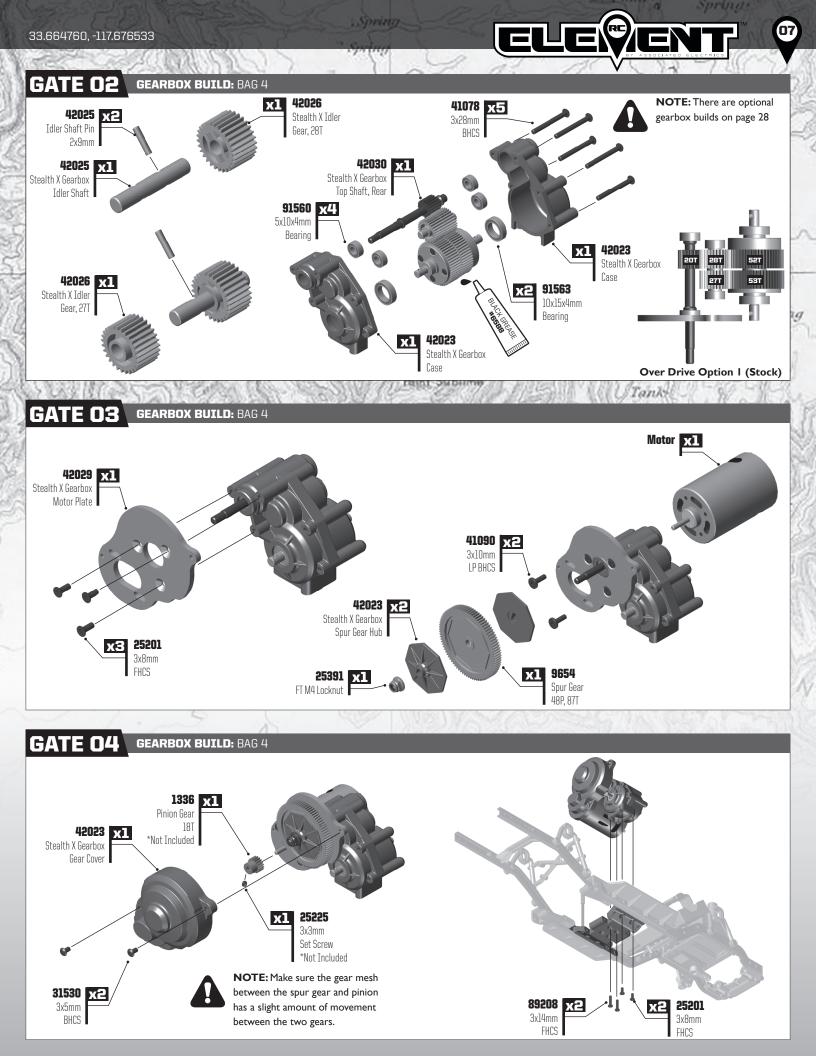
This symbol indicates where Shock Fluid should be applied.

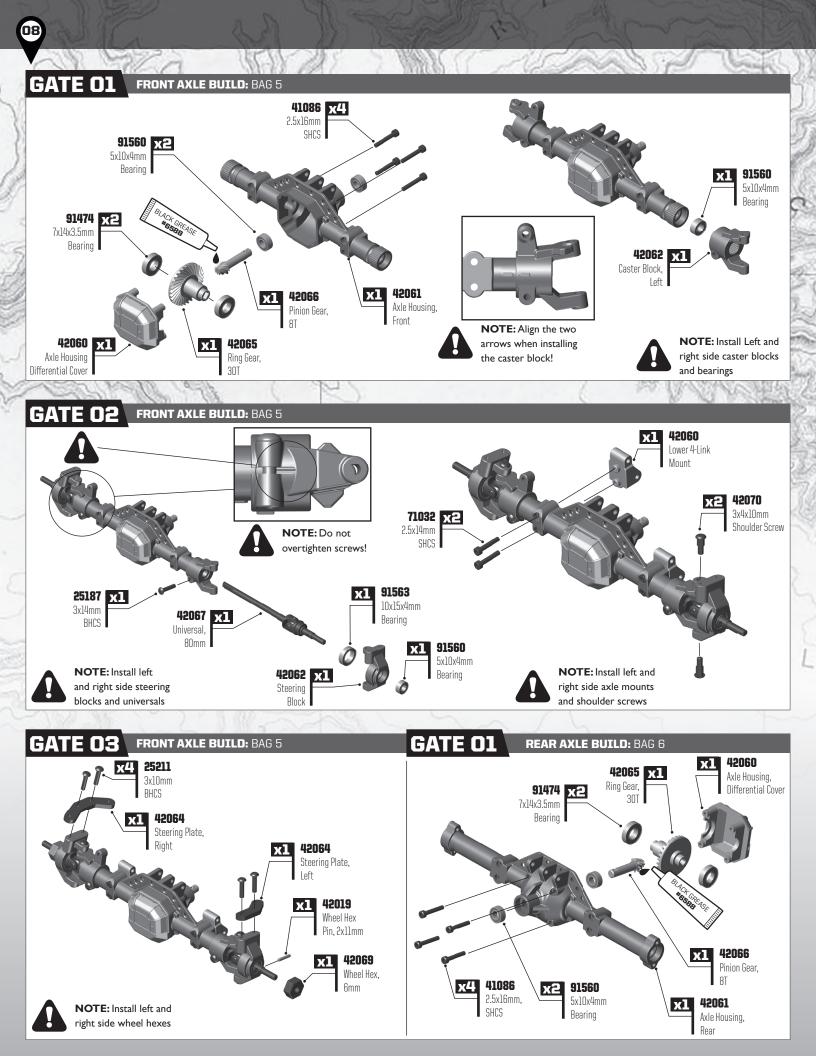


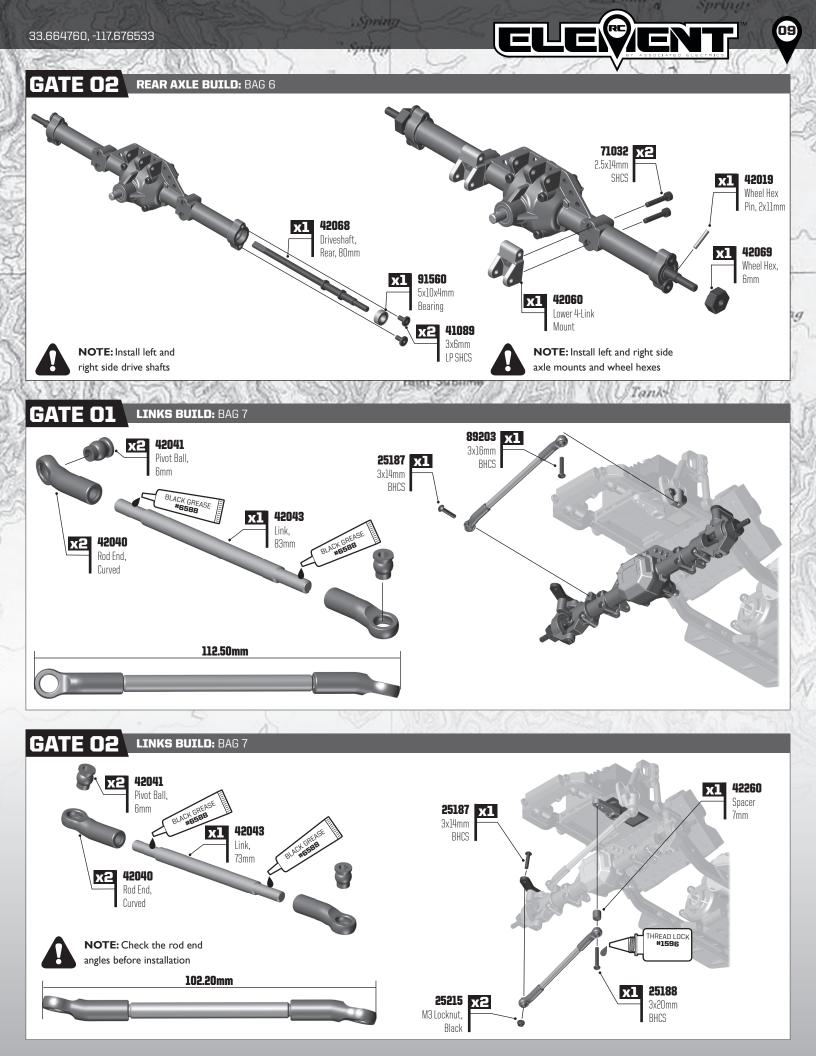
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.

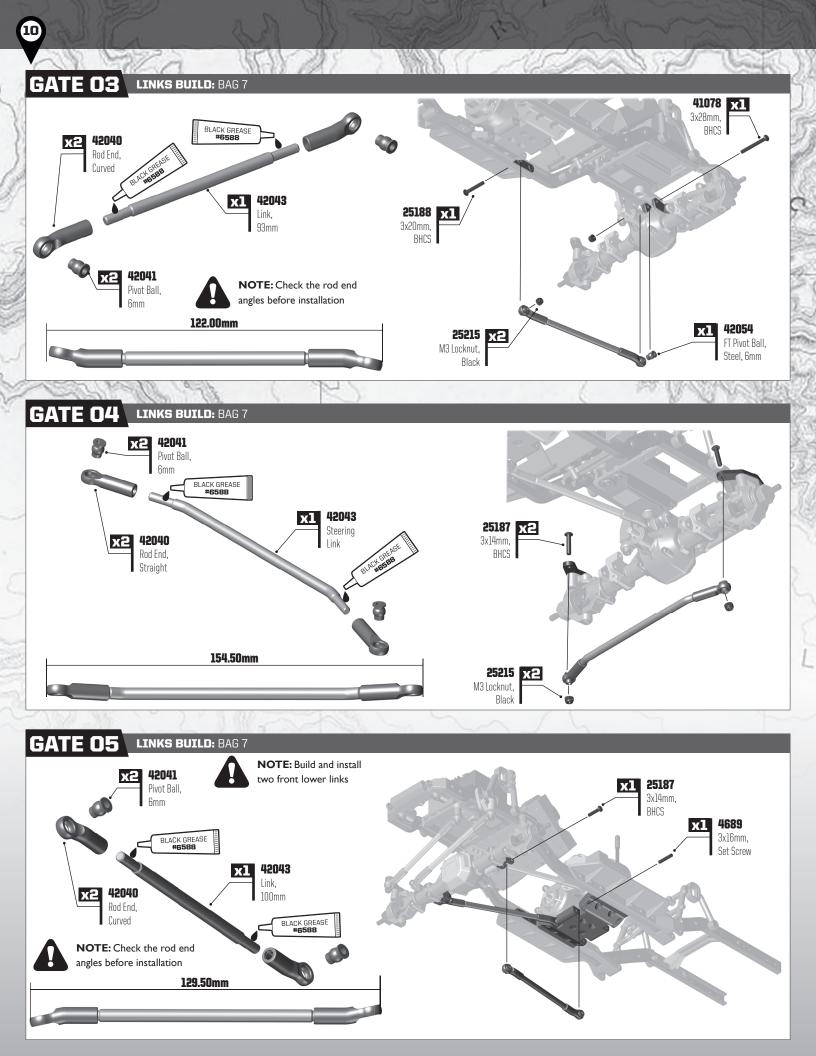


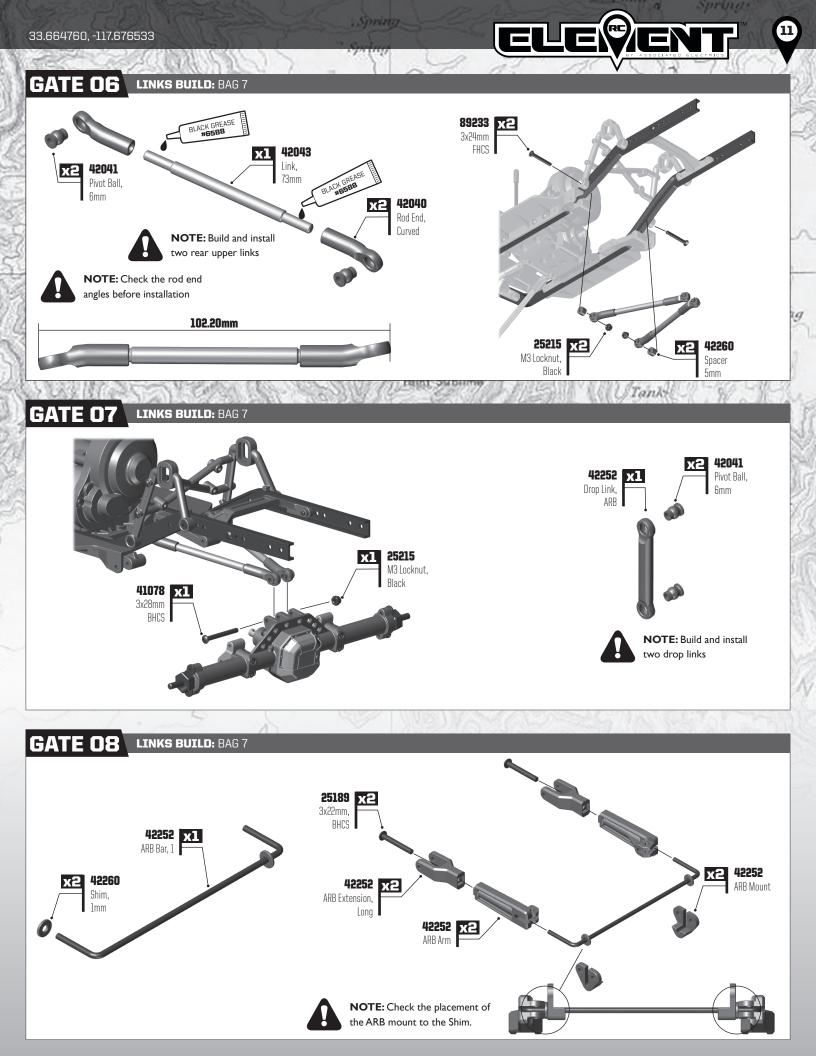


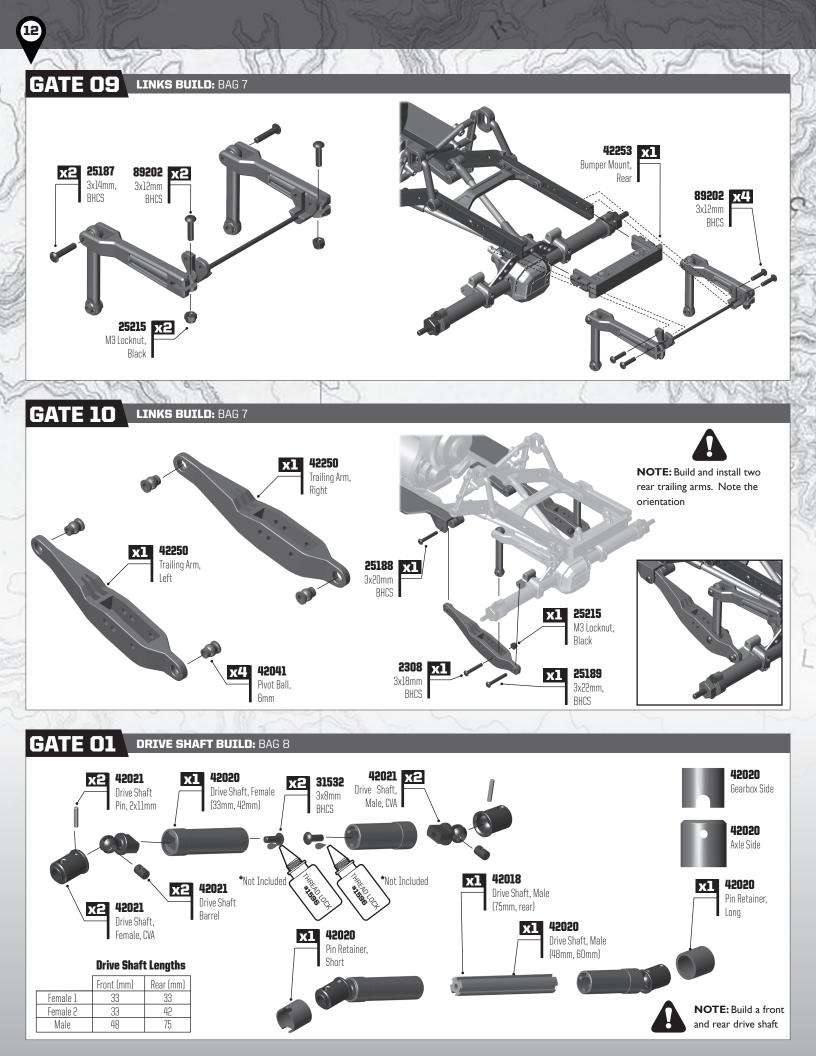




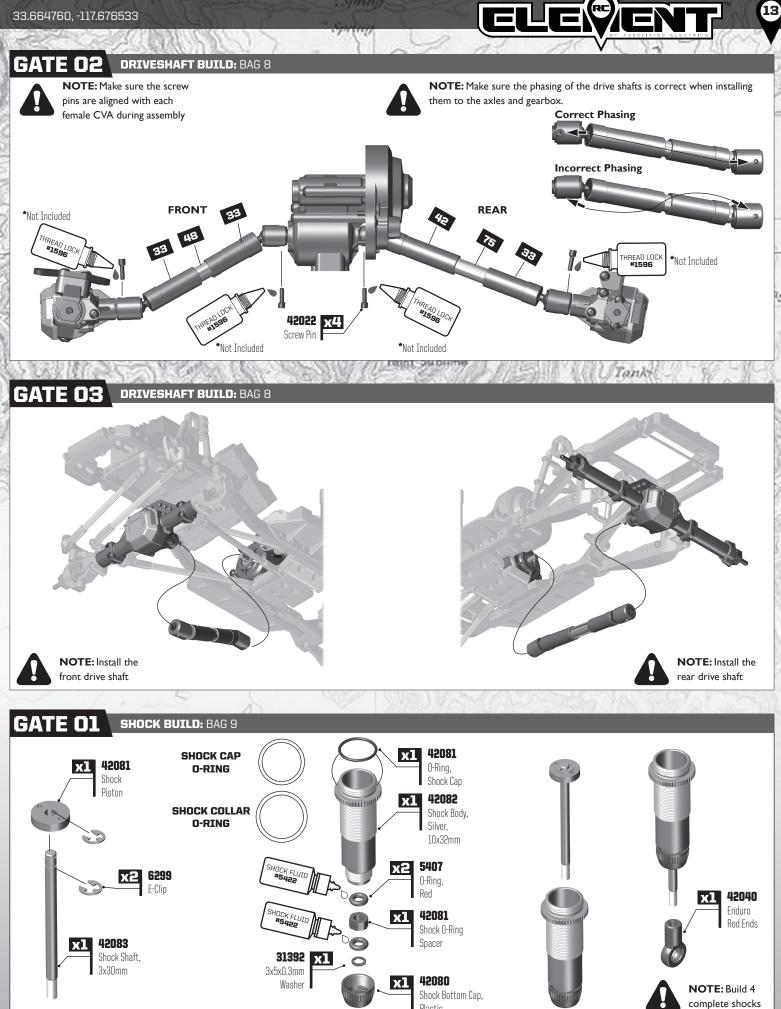




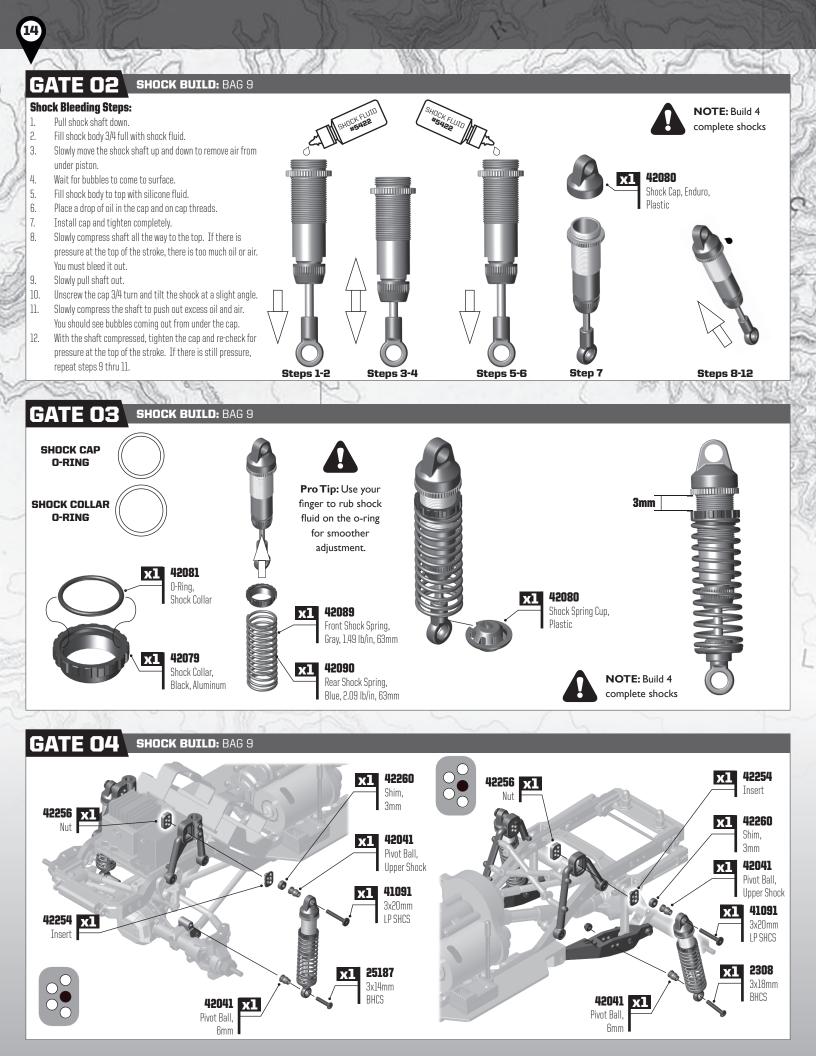


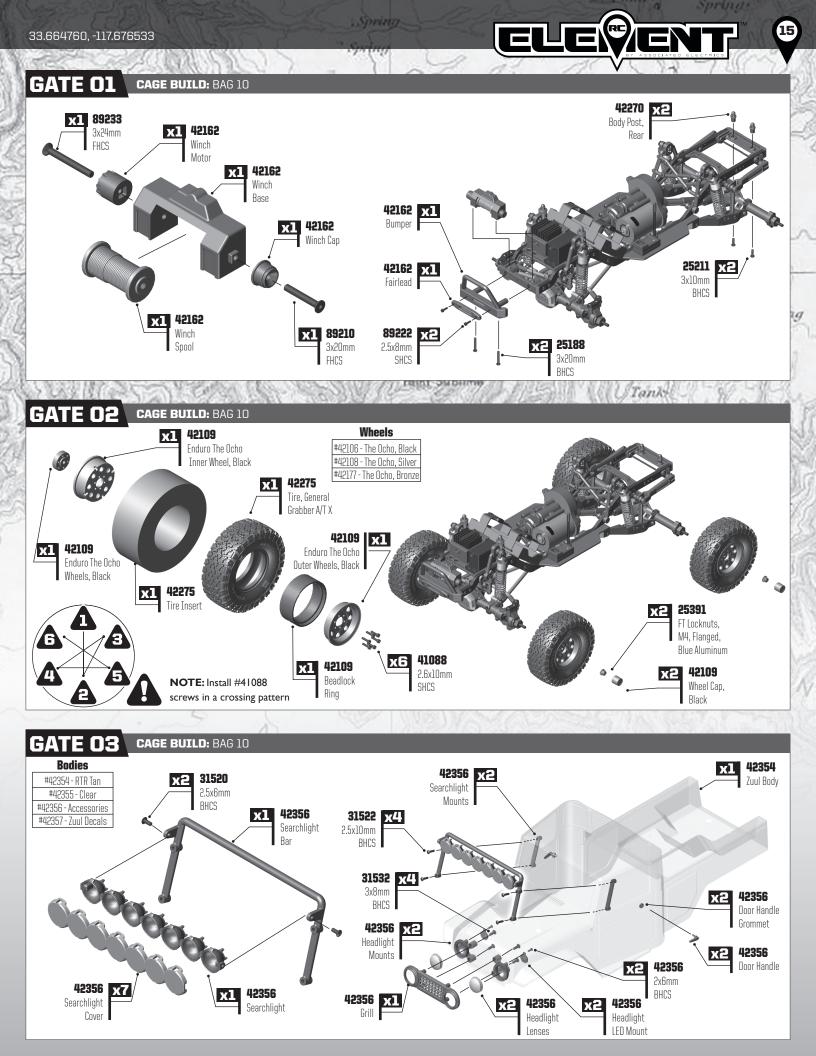


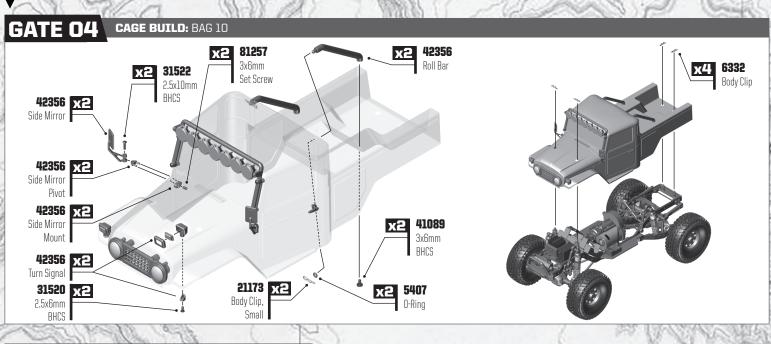




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# TRAIL TIPS AND CHECKLIST

### 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.

- $\Box$  Vehicle with charged battery
- □Radio with charged 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)
- Sturdy shoes (Hiking boots or something with grip and ankle support)
- Element hoodie or jacket
- $\Box$ Sunscreen
- □Nut drivers (Factory Team Nut Drivers #1507, 1508)
- Allen wrenches (Factory Team Hex Driver set #1655)
- $\Box$  Headlight or flashlight with spare batteries
- □Camera

I-2 spare charged batteries for your rig
Spare radio batteries
Backpack
Water (2 liters per person minimum)
Element hat or beanie
Snacks (protein bars, trailmix, etc.)
Bug spray
Lip balm
Cell phone and charger
Compact action 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 vehicles and others may not. Check with your local officials before driving in a public park.

## • Be Considerate:

Wherever 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 STEALTH X: BUILD CONFIGURATION: MOTOR MOUNT FACING REAR (STOCK)

#### **OVERDRIVE**:

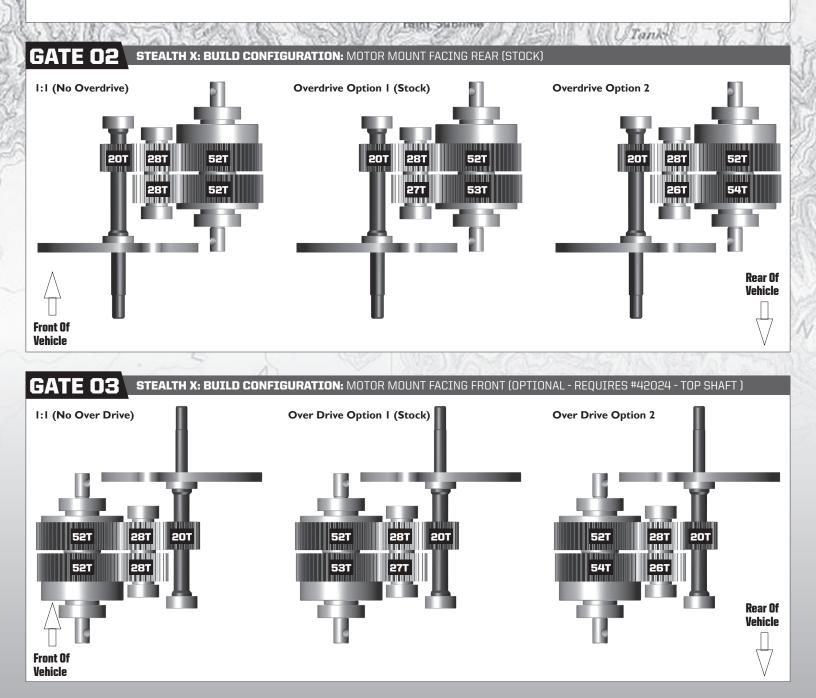
Overdrive is a scenario where the front and rear wheels do not rotate at the same speed. The Stealth X gearbox is designed to allow the front wheels to spin faster than the rear wheels. Overdrive is advantageouse when climbing up rock faces because the front tires will want to pull the vehicle up the 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.

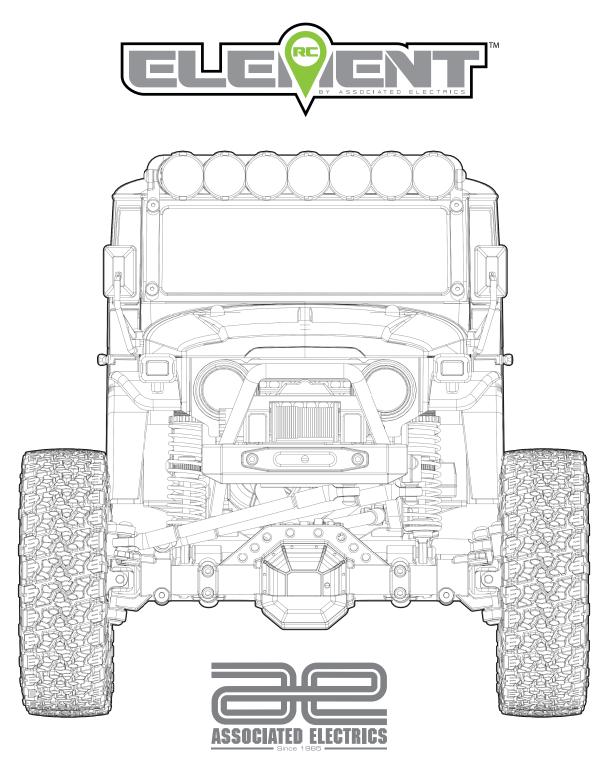
#### Stealth X:

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.





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