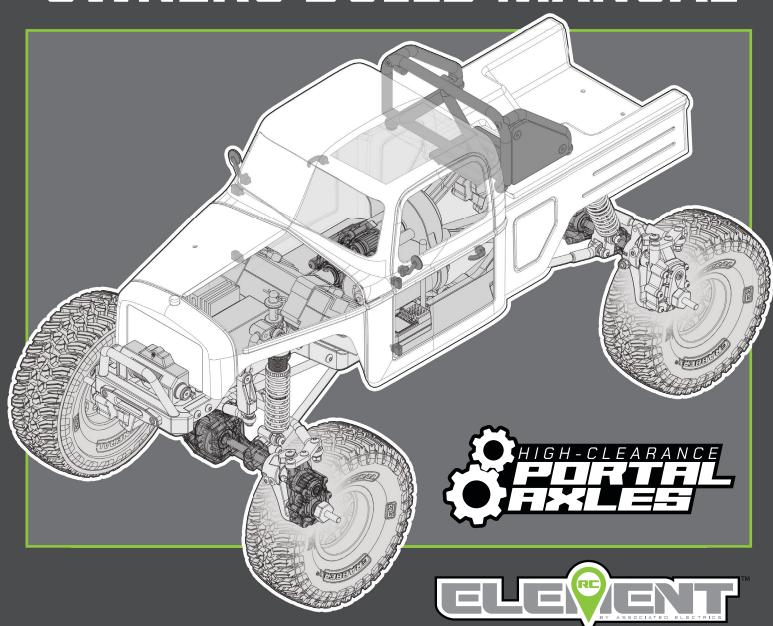


ECTO PORTAL 4X4



OWNERS BUILD MANUAL







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

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AREA 51 is a Registered Trademark of Associated Electrics, Inc.
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.

- I.5mm Allen Wrench (#1500)
- 2mm Allen Wrench (#1501)
- 2.5mm Allen Wrench (#1503)
- Plier
- 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 Include
- 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.

ECTO PORTAL 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 Ecto Portal RTR Trail Truck!

At the heart of the Enduro Ecto Portal RTR 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 I provides a one-to-one drive ratio front-to-rear (available separately), and option 2 overdrives the front end II.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 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 with built-in LED controller. 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
- CMS (Chassis Mounted Servo)
- · Adjustable front track bar
- Universal front drive axles
- Stamped steel frame rails
- 12mm wheel hexes
- · Adjustable front bumper mount
- Two battery boxes
- Aluminum motor plate
- Adjustable body posts
- Optimized ball cups for more fluid axle articulation
- · Adjustable rear shock tower mount positions
- Telescopic driveshafts front and rear

- Extruded aluminum driveshaft splines
- · Splined front axle with adjustable caster
- Metal gears throughout axles
- · Increased inner axle input bearing
- Machined steel top shaft
- Steel servo horn
- · Heavy-duty 5mm diameter steel links
- Metal ball bearings included

HARDWARE 1:1 SCALE VIEW

HARDWARE USED WITH OPTIONAL REPLACEMENT PART NUMBERS

FLAT HEAD SCREWS (FHCS)	
	2.5×10 mm (31350)
	2.5x14mm (41077)
	3x6mm (31541)
	3x8mm (25201)
	3x10mm (25202)
	3x12mm (25203)
	3x14mm (89208)
	3x20mm (89210)
	3x24mm (89233)

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)

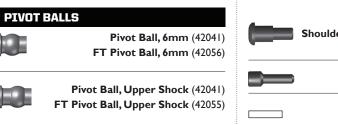
BEARINGS	
	5x10x4mm (91560)
	5x12x4 mm (91567)
	7x14x3.5 mm (91474)
	10x15x4 mm (91563)

BUTTON HEAD SCREW	(BHCS)
	2x3mm (31509)
2.6x10mm,	Self Tapping (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)

	3x6mm (41089)
LP SOCKET HEAD SC	REWS (LP SHCS)
	3x6mm (41089)
	3×10mm (41090)
	3x16mm (41092)
	3x20mm (41091)
SET SCREWS	
	3x3mm (25225)
	3x6mm (81257)
	3x16mm (4689)
	4x16mm (4677)

LOCK NUTS

SHIMS AND WASHERS		
	3x7mmx1mm (42260)	
	3x7 mmx 2 mm (42260)	
	3x7x3mm (42260)	
	3x7x5mm (42260)	
	3x7x7mm (42260)	
	Drive Gear Shim (42027)	



M3 Locknuts (25215) **Aluminum** (31550)

M4 Locknut W/Flange (25391)



MISC. SCREWS



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7/30/2024

COVER

INTRODUCTION

1:1 HARDWARE "FOLD OUT"

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CHASSIS BUILD

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GEARBOX BUILD

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LINKS BUILD

DRIVESHAFTS BUILD

SHOCKS BUILD

BUMPER / WHEELS & TIRES / BODY BUILD

OPTIONAL GEARBOX BUILD

BACK COVER

USING THIS MANUAL



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 Green Slime can be applied.



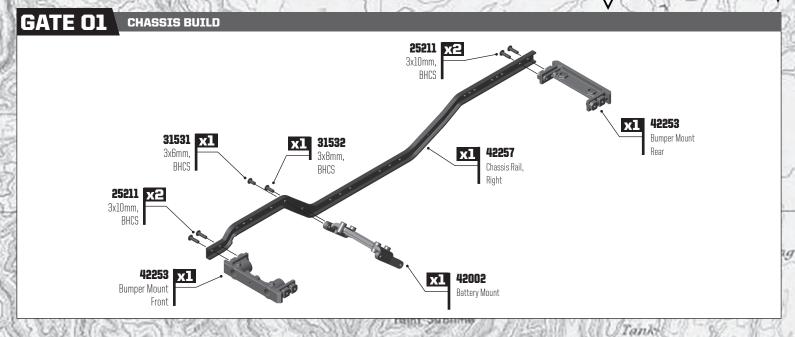
This symbol indicates where Thread Lock Adhesive should be applied.

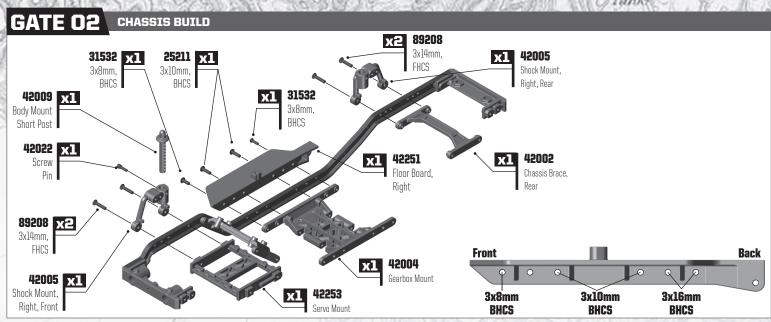


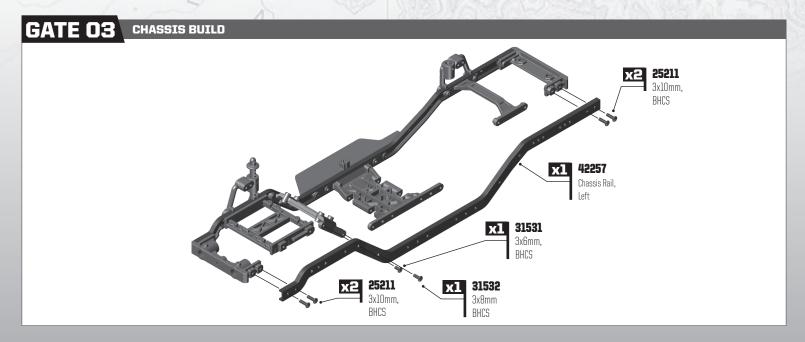
This symbol indicates where Shock Fluid should be applied.



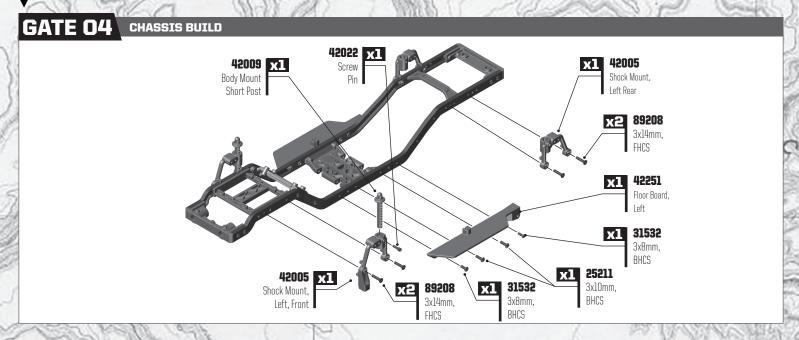
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.

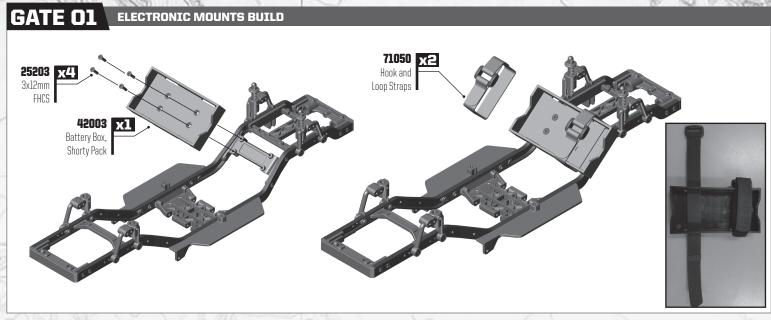


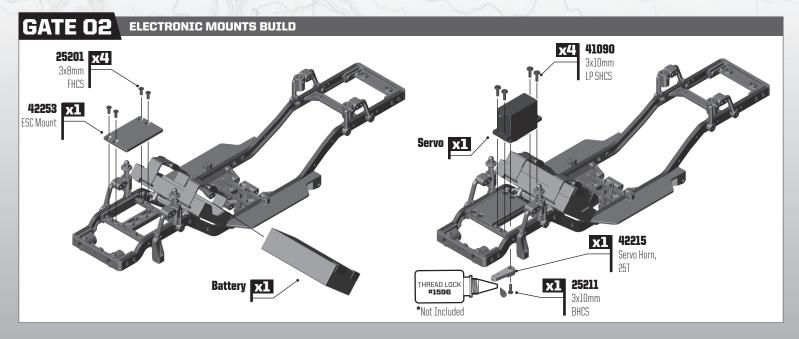




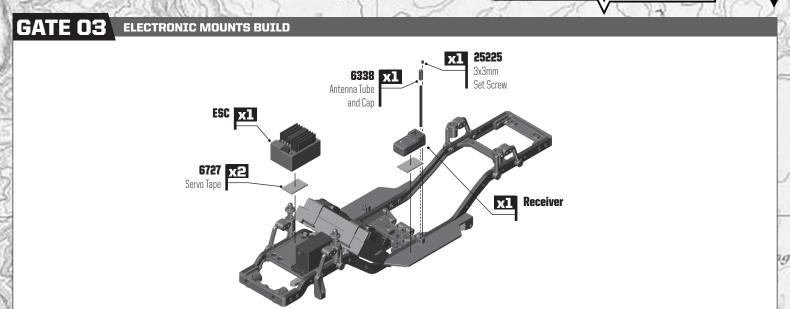


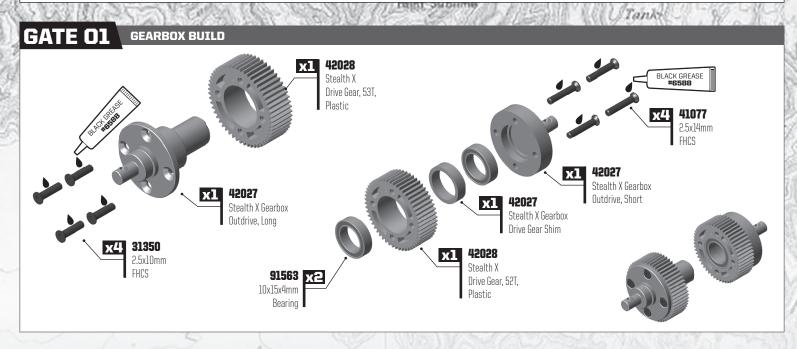


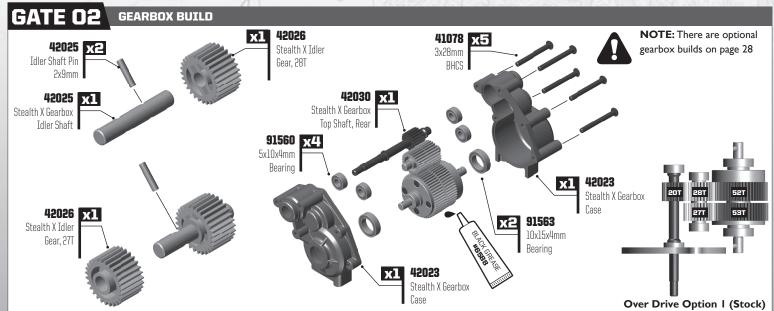


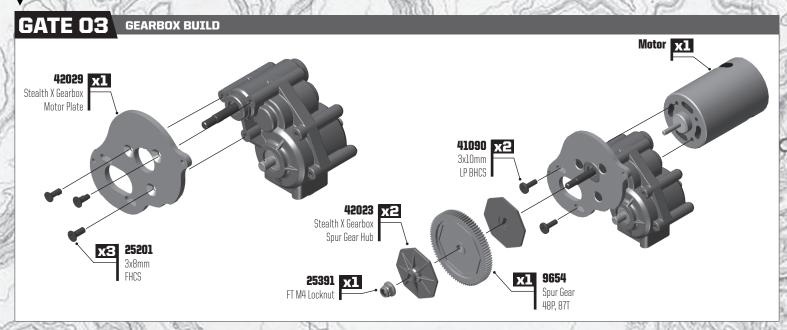


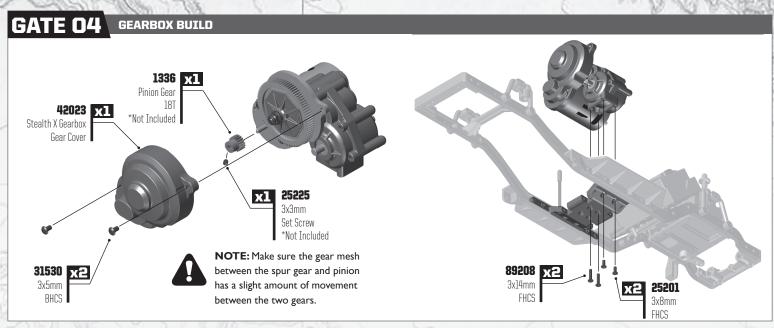


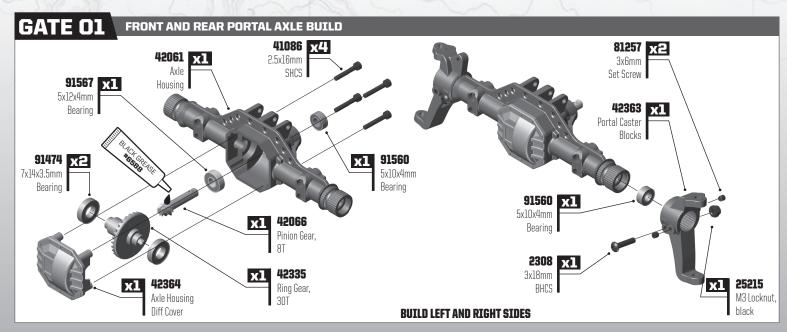






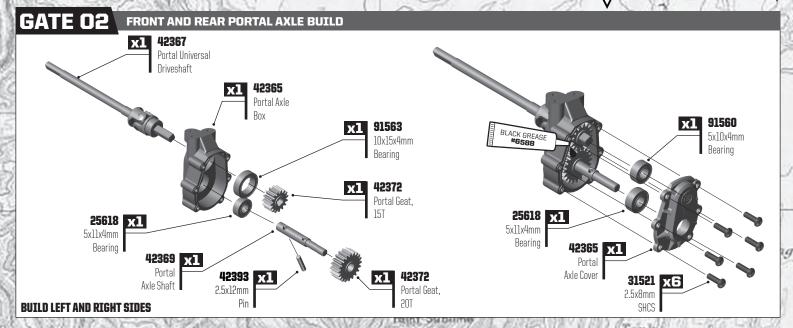


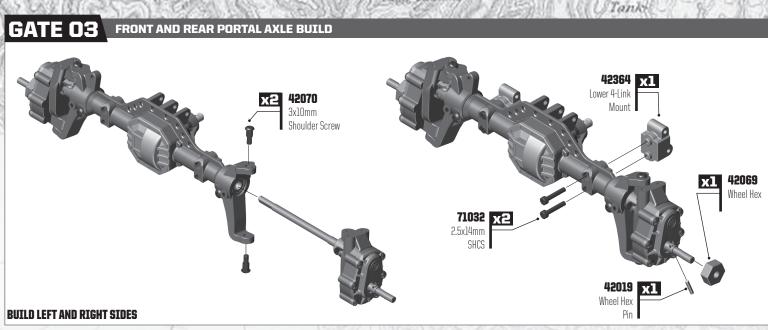


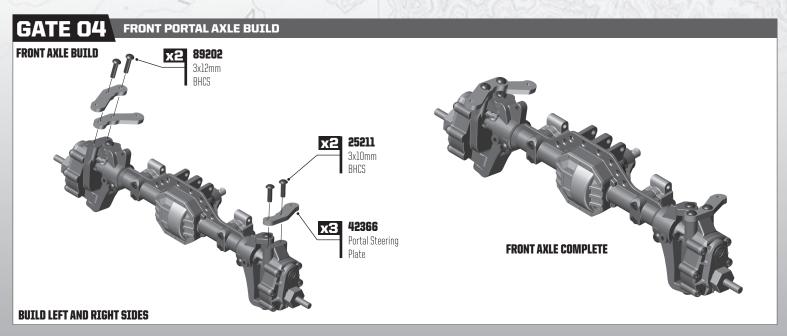


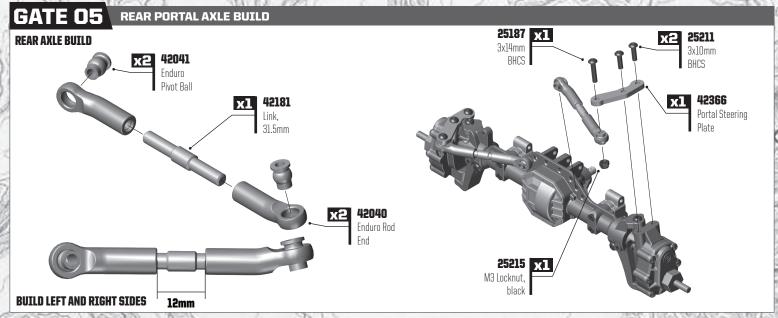


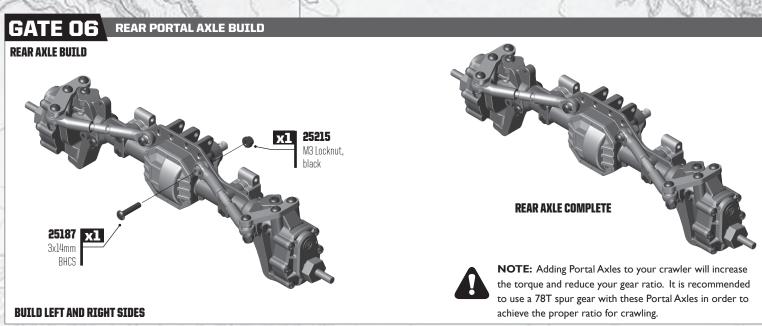


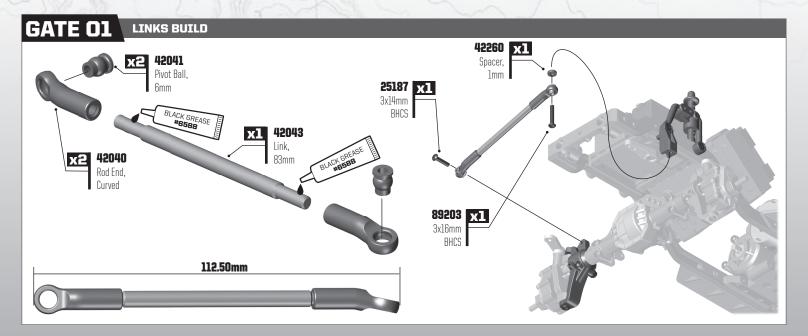




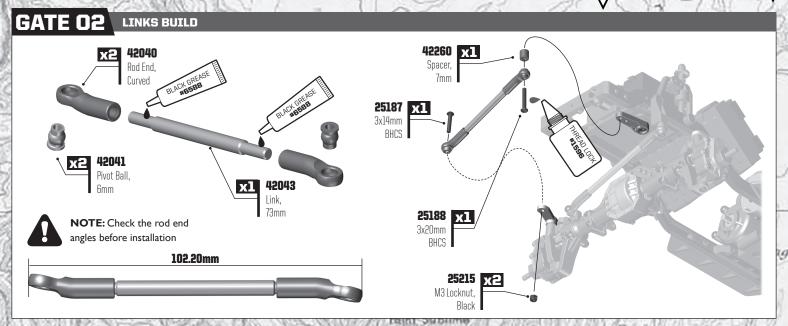


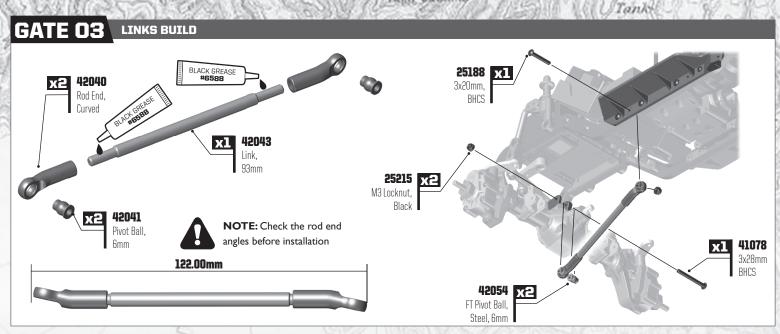


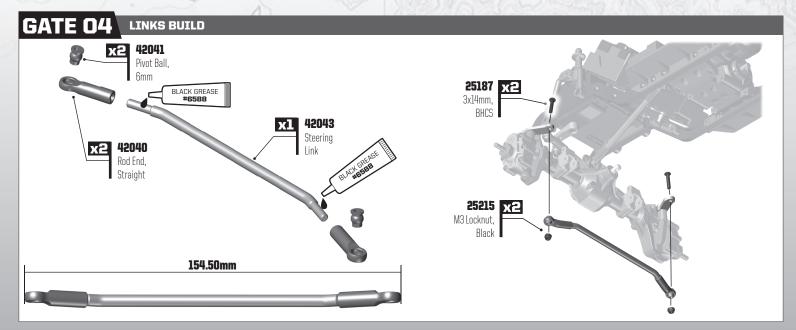


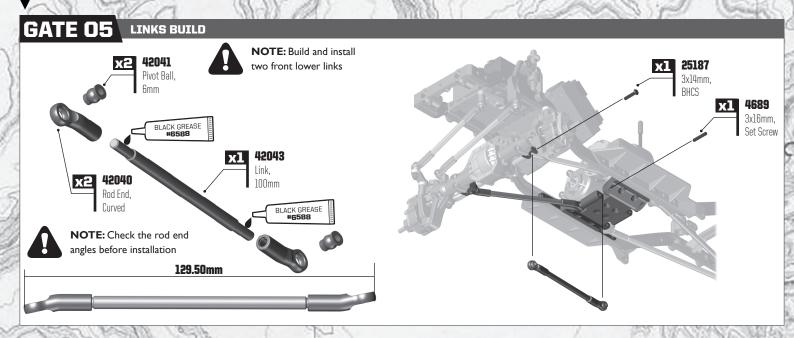


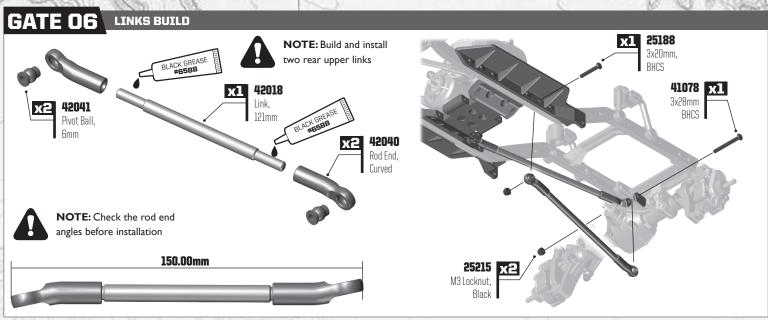


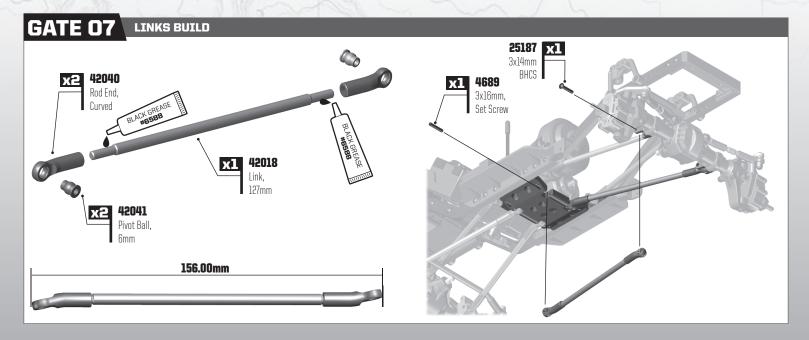






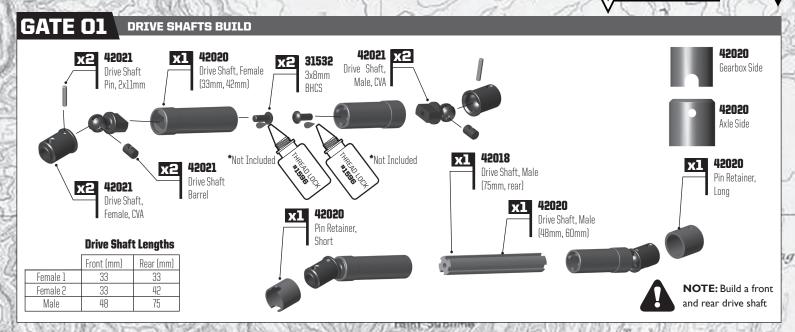


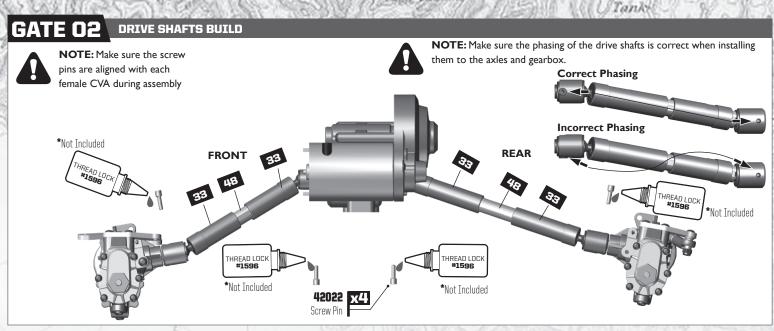


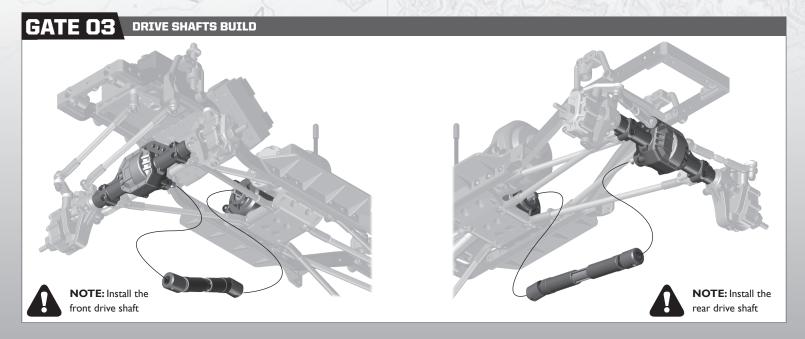


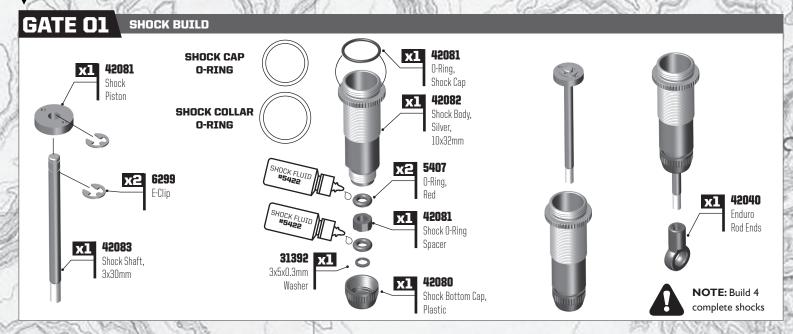


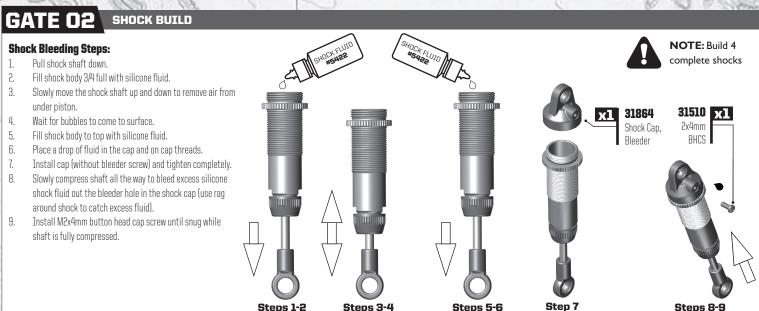


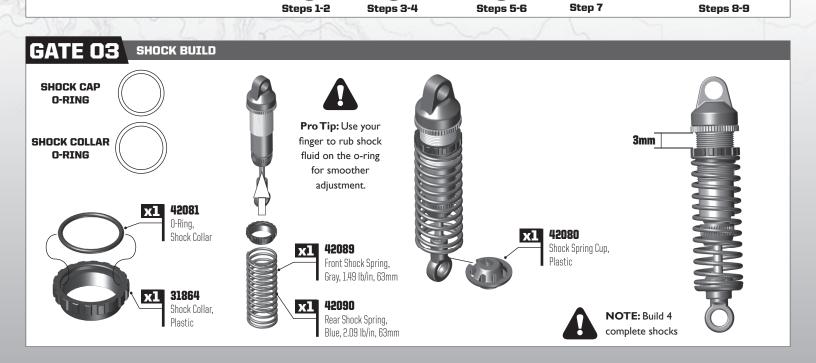




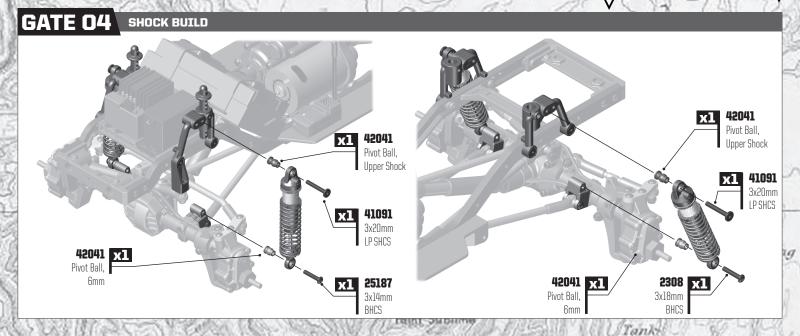


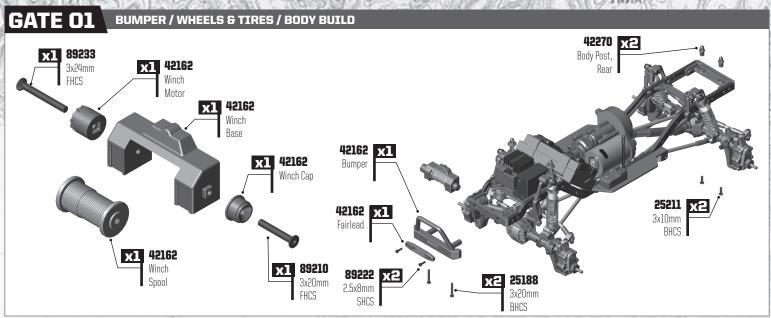


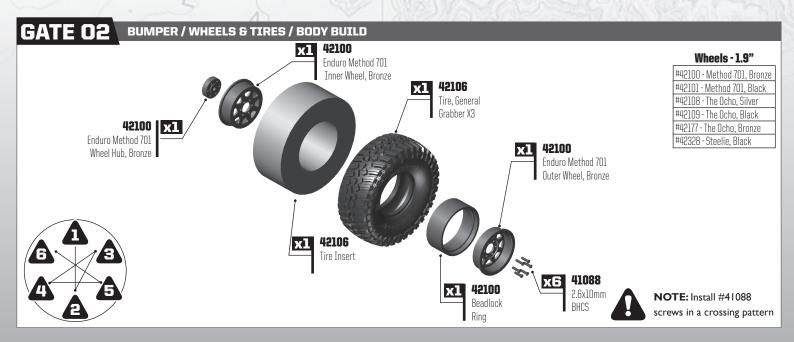




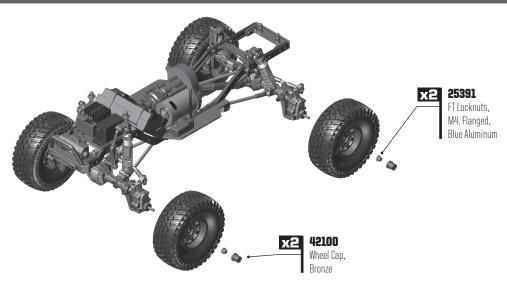


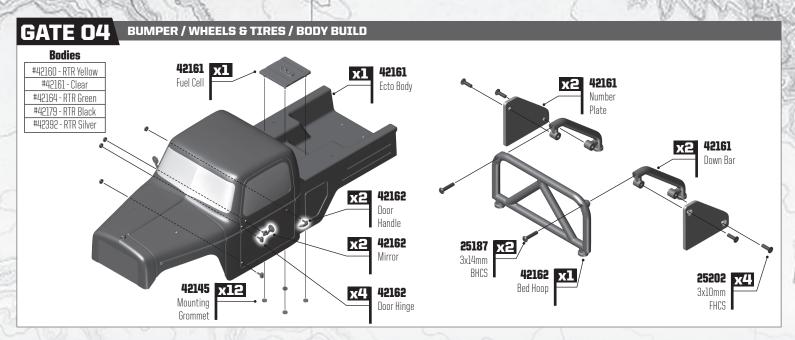


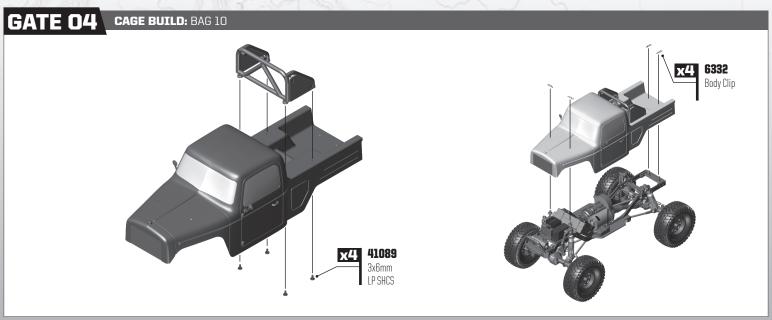




GATE O3 BUMPER / WHEELS & TIRES / BODY BUILD









T

GATE 01

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



OVERDRIVE:

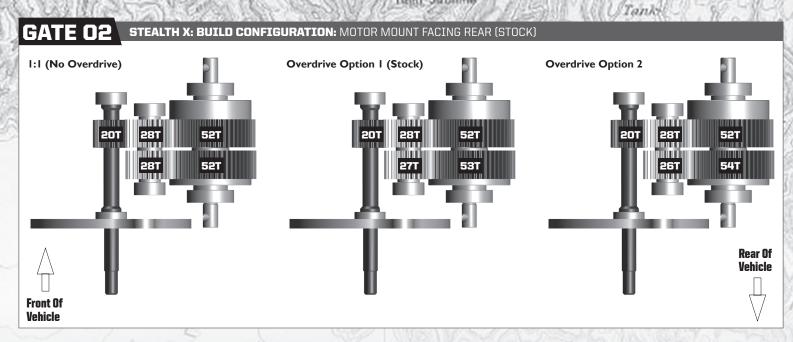
Overdrive is a scenario where the front and rear wheels do not rotate at the same speed. The Stealth X gearbox is designed to allow the front wheels to spin faster than the rear wheels. Overdrive is advantageouse when climbing up rock faces because the front tires will want to pull the vehicle up the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

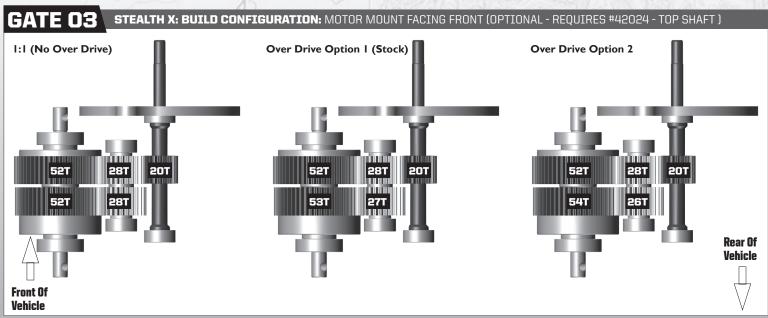
Stealth X:

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.

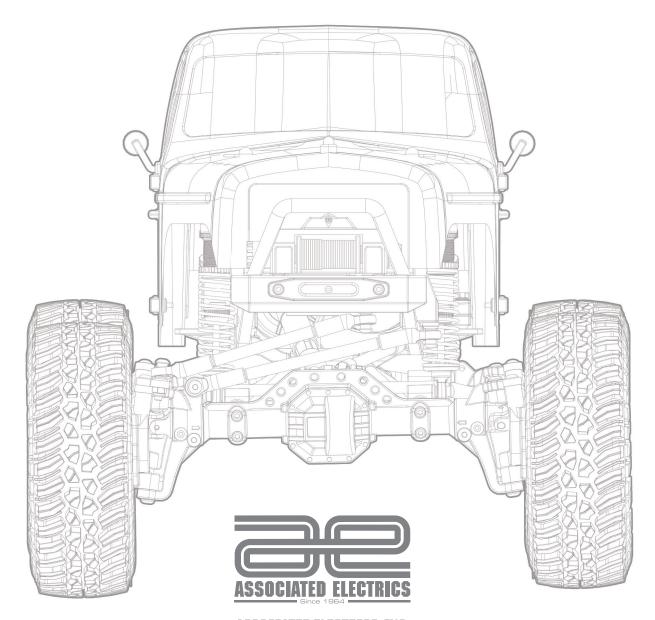
Please Note:

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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