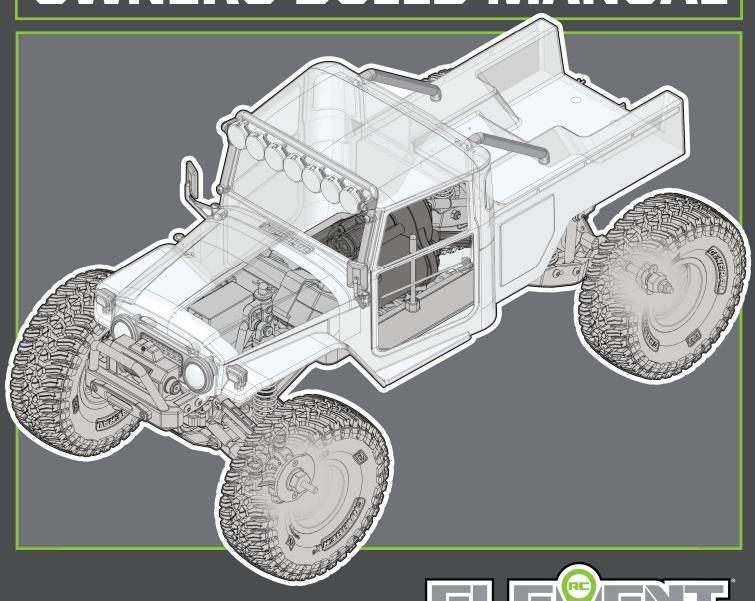




OWNERS BUILD MANUAL







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)
- 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 Include
- Black Grease (#6588)

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.

FEATURES

IFS2 ZUUL RTR CHASSIS FEATURES:

- STEALTHR X TRANSMISSION: Our transmission features the ability to adjust the rear drive ratio independently of the front drive in 3 levels: stock overdrives the front 5.7%, option 1 (not included) is a one-to-one drive ratio, and option 2 overdrives the front 11.83%.
- ALUMINUM TRACK BAR MOUNT: The GKSTM package includes an aluminum track bar mount bolted directly to the steel frame rail, making the front suspension more rigid and flex-free with a more precise steering feel.
- SHOCK MOUNT INSERTS: GKSTM shock mount inserts provide drivers with the ability to tune shock angle, droop and vehicle ride height without affecting spring preload.
- REAR ANTI-ROLL BAR: The rear anti-roll bar helps keep the rear suspension stable while driving over rough terrain and improves climbing ability on steep inclines or side hills.
- REEDY POWER CRAWLER MOTOR: The Reedy Power 5-slot 14-turn brushed 550 crawler motor provides ample torque with a smooth power delivery. This allows for slow precise acceleration while maintaining consistent power over rough terrain and obstacles.
- FLYSKY 2-in-I ESC/ RECIEVER UNIT:The IFS2 Zuul RTR comes equipped with a Flysky 2-in-I brushed electronic speed control (ESC) and receiver unit with built-in LED lighting controller.
- TRAILING ARM REAR SUSPENSION: At the heart
 of the Gatekeeper Suspension (GKSTM) are the rear
 trailing arms. This design moves the shocks forward,
 thus improving weight bias. Because the shock mounting
 points are farther forward on the lower links and
 chassis, this allows for a larger window for shock tuning
 and an optimized anti-roll bar mounting position.

ADDITIONAL FEATURES:

- IFS2 Independent Front Suspension
- Symmetrical (left to right) upper and lower control arms
- Flipped lower pivot ball mount for increased ground clearance

- Traditional CMS steering servo mounting location
- Servo winch mount location
- · Heavy duty steel suspension balls
- Metal ring and pinion gears
- Universal front drive axles
- · Larger input bearing/bushing cavity
- 45 deg. steering throw
- · Integrated servo winch mount
- Threaded aluminum shock bodies
- · Stamped steel frame rails
- I2mm wheel hexes
- 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
- Machined input pinion gear
- · Machined steel top shaft
- Heavy duty 5mm diameter steel links
- · Metal ball bearings included
- Steel 25T servo horn

ADDITIONAL BODY EATURES:

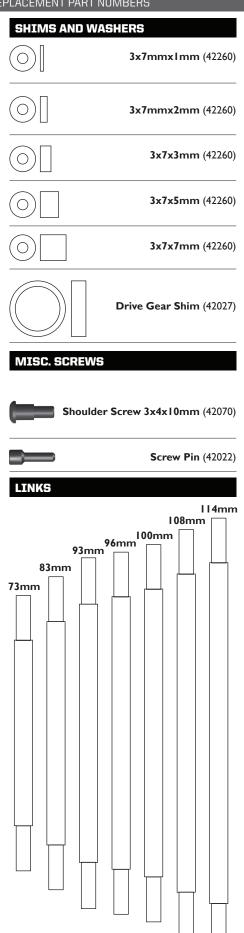
- Thermoformed polycarbonate body styled after early pickup trucks
- Scratch and Weather Customizable Body Paint
- Narrow body design for increased performance and clearance
- Clear windows
- Dropped bed design
- · Adjustable injection-molded front bumper
- Injection-molded fairlead
- Injection-molded mock winch
- Injection-molded grill and signal lights with clear lenses
- Licensed 1.9"x4.19"x1.4" General Grabber A/TX tires
- · Licensed 1.9" Method 701 Trail Series wheels

REPLACEMENT PART NUMBERS

	1:1 SCALE
FLAT HEAD SCREV	NS (FHCS)
	2.5×10 mm (31350)
	2.5x14 mm (41077)
	3x8mm (25201)
	3x10mm (25202)
	3x12mm (25203)
	3x14mm (89208)
	3x20 mm (89210)
	3x24mm (89233)
SOCKET HEAD SC	REWS (SHCS)
	Aluminum (8566)
	2x8mm (7187)
	2.5 x6mm (41079)
	2.5×8 (89222)
	2.5×10 (41087)
	2.5×14 (71032)
	2.5×16 (41086)
LP SOCKET HEAD	SCREWS (LP SHCS)
	3x6mm (41089)
	3x10 mm (41090)
	3x20mm (41091)
SET SCREWS	
	3x3mm (25225)
	3x16mm (4689)
	4x16 mm (4677)
PIVOT BALLS	
FT	Pivot Ball, 6mm (42041) Γ Pivot Ball, 6mm (42056)

HARDWARE L	JSED WITH OPTIONAL I
BUTTON HEAD SCRI	EWS (BHCS)
	2.5x10 mm (41088)
	3x5mm (31530)
	3x6mm (31531)
	3x8mm (31532)
	3x10mm (25211)
	3x12mm (89202)
	3x14mm (25187)
	3x16mm (89203)
	3x18mm (2308)
	3x20 mm (25188)
	3x22 mm (25189)
	3x24mm (89204)
	3x28mm (41078)
LOCK NUTS	
	M3 Nuts (91477) M3 Locknuts (25215) Aluminum (31550)
M4 Loc	cknut W/Flange (25391)
BEARINGS	
	5x10x4 mm (91560)
	5x12x4mm (91567)
	7x14x3.5mm (91474)

10x15x4mm (91563)





Pivot Ball, Upper Shock (42041) FT Pivot Ball, Upper Shock (42055)



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BODY BUILD

16 TRAIL TIPS

17 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.



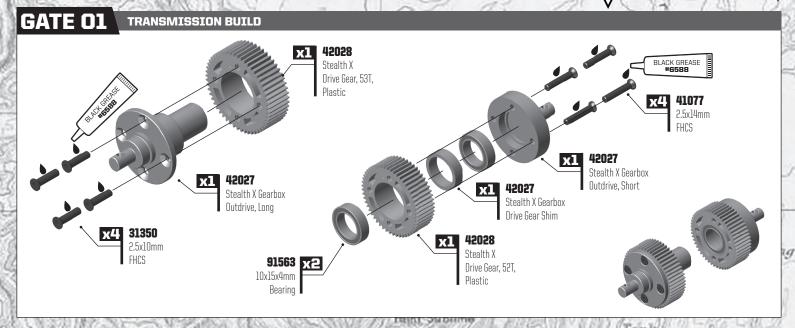
This symbol indicates where Thread Lock Adhesive should be applied.

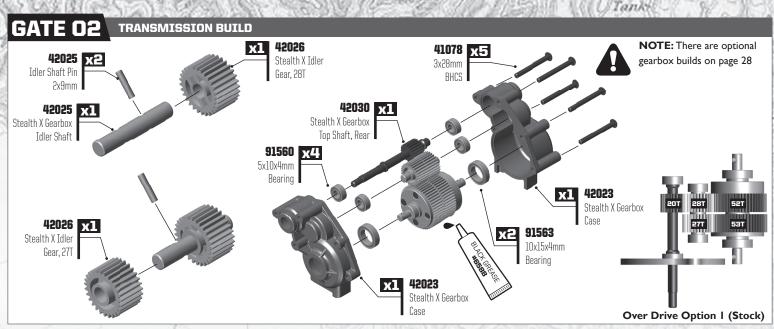


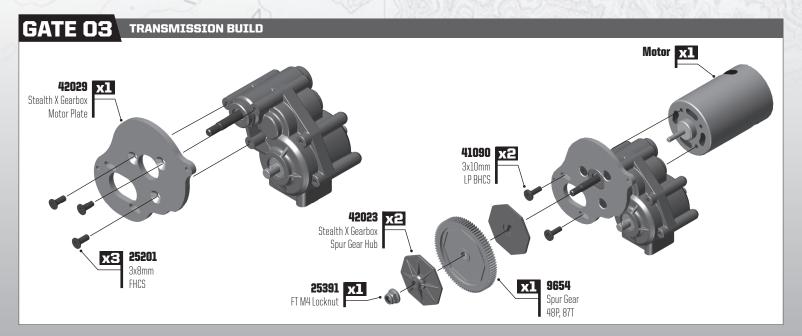
This symbol indicates where Shock Fluid should be applied.

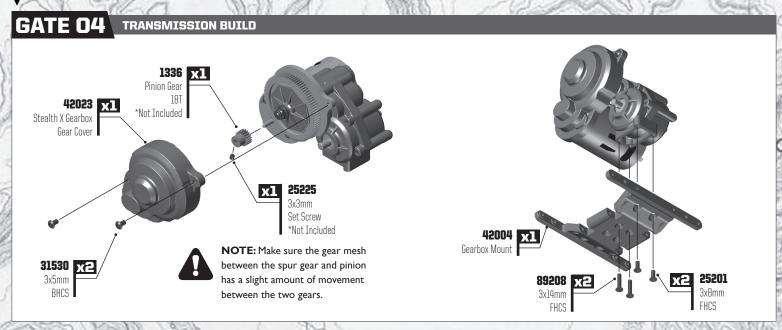


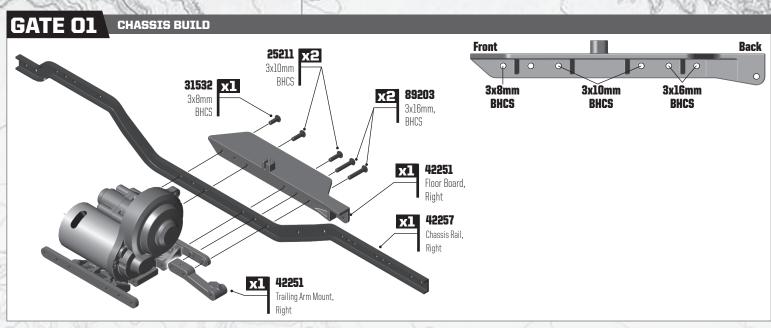
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.

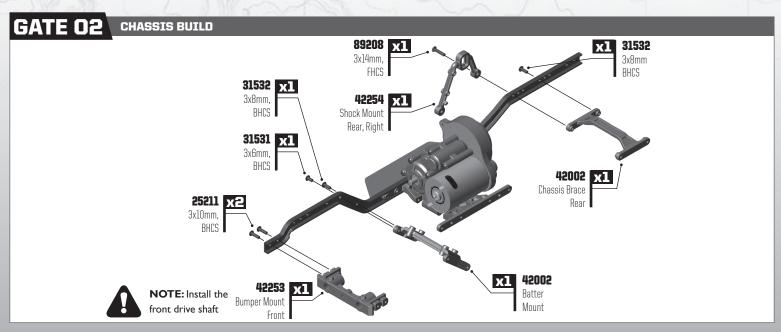




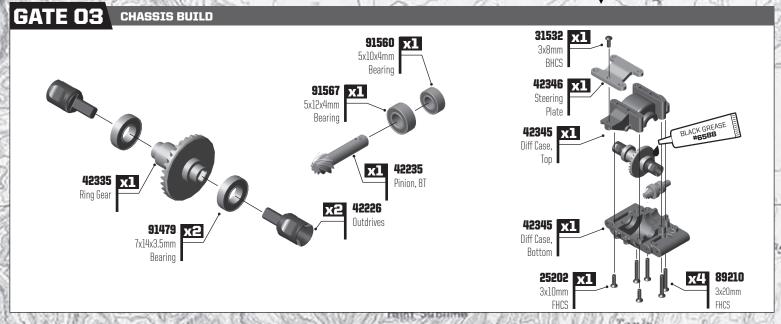


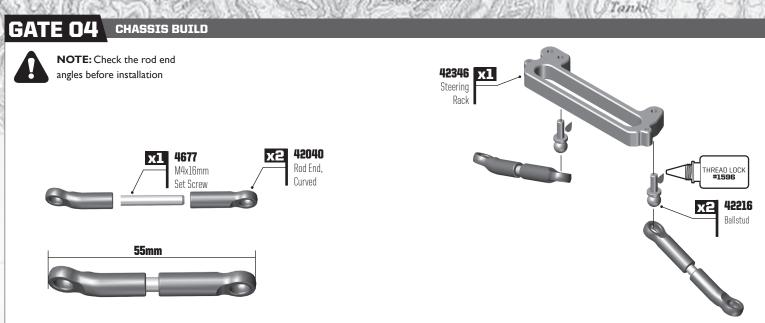


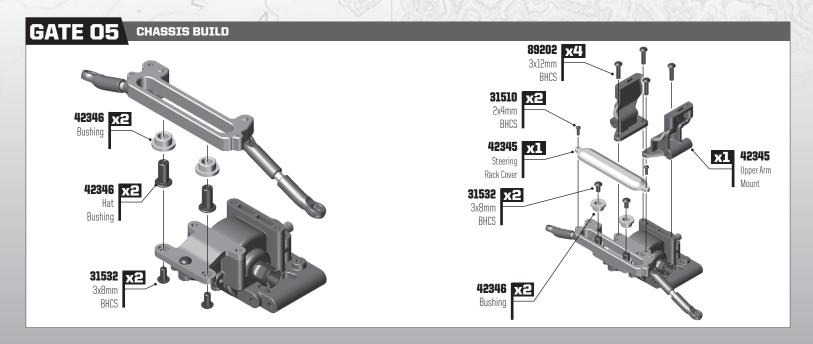


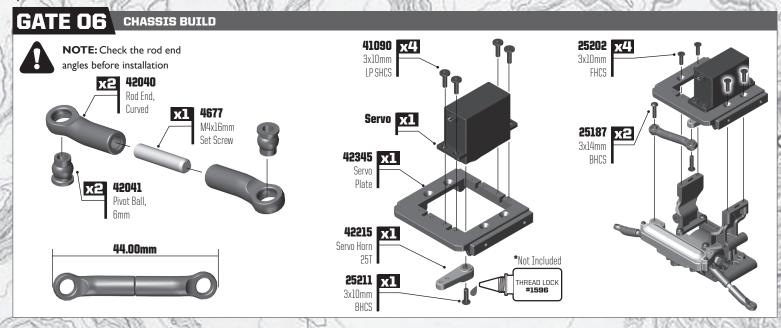


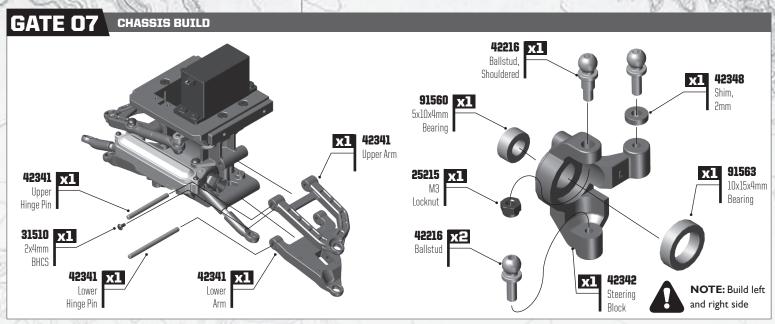


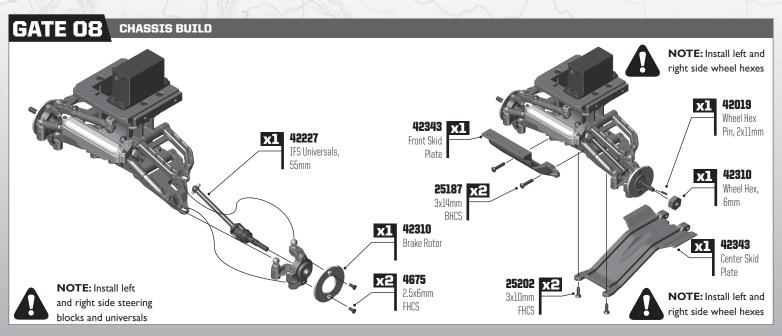






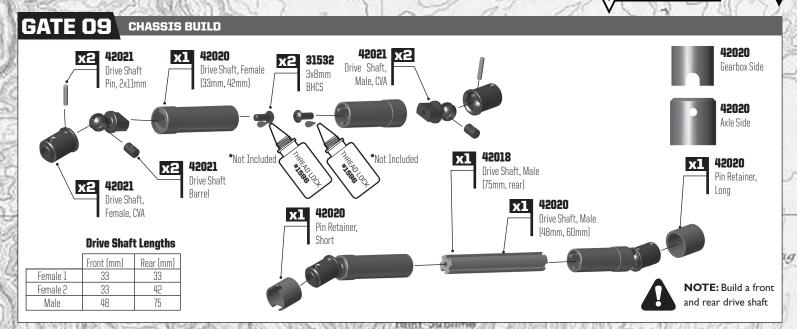


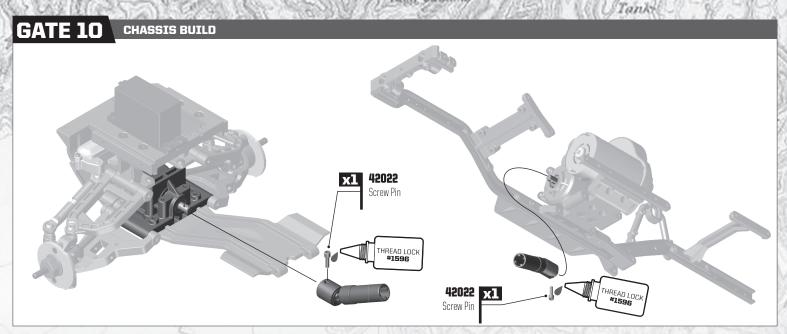


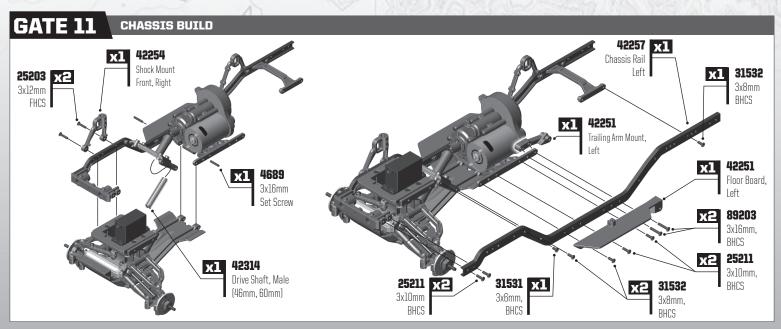


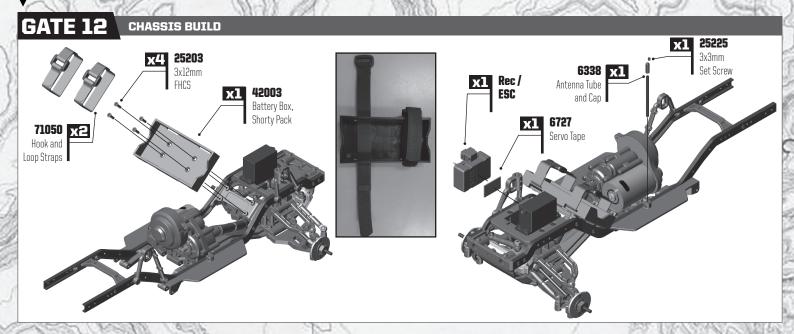


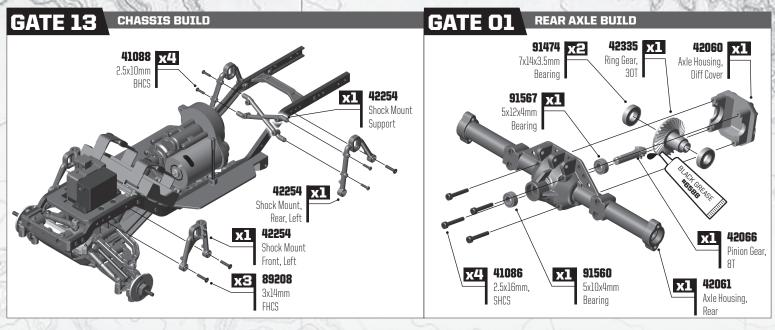


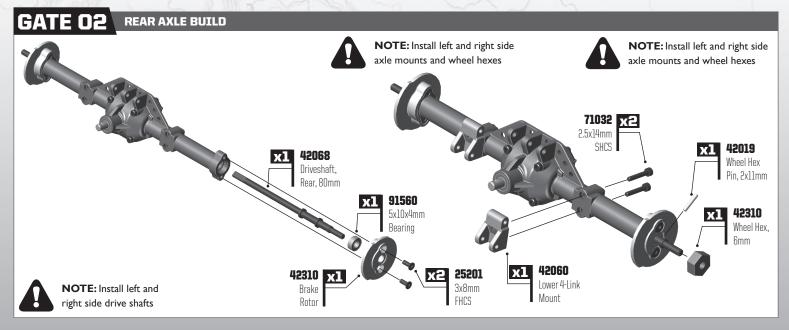






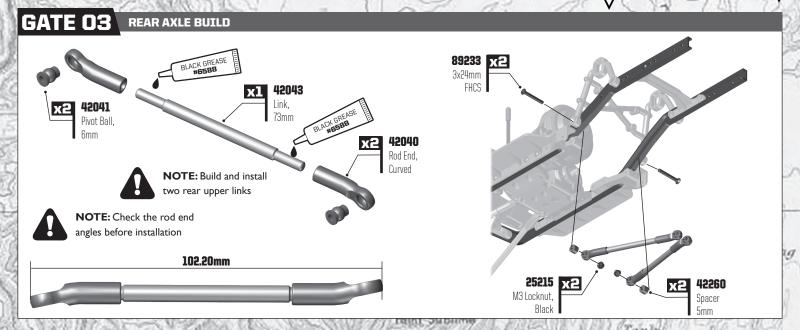


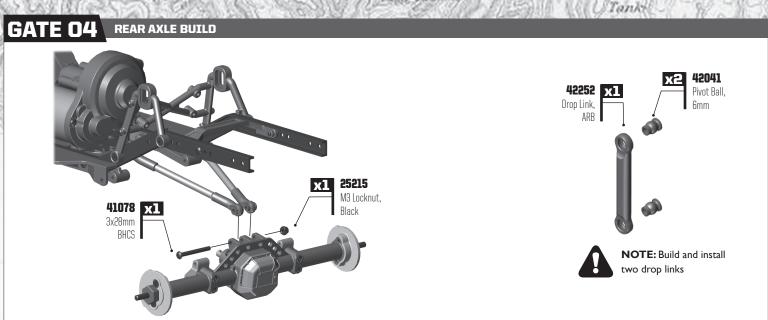


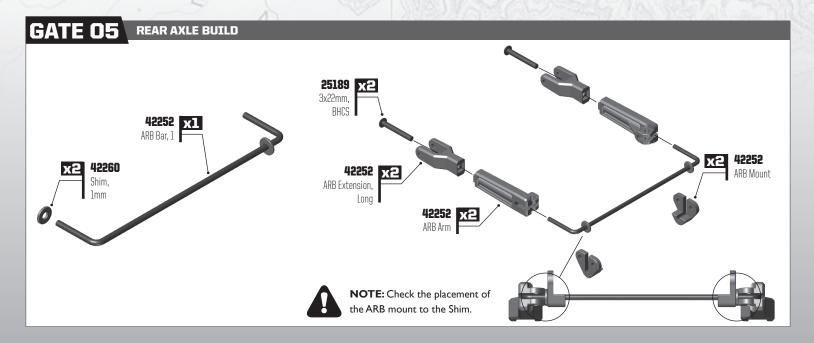






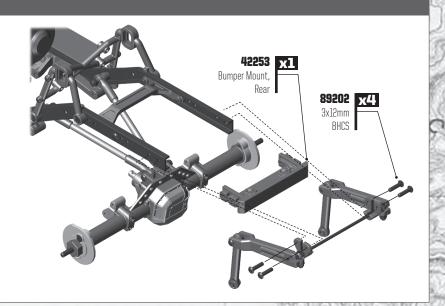




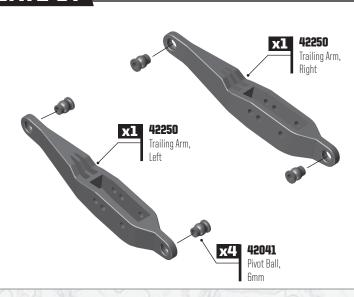


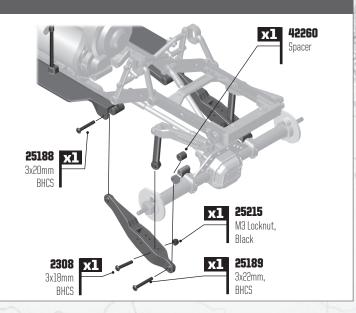
GATE 06 REAR AXLE BUILD





GATE 07 REAR AXLE BUILD





GATE 08 REAL

REAR AXLE BUILD

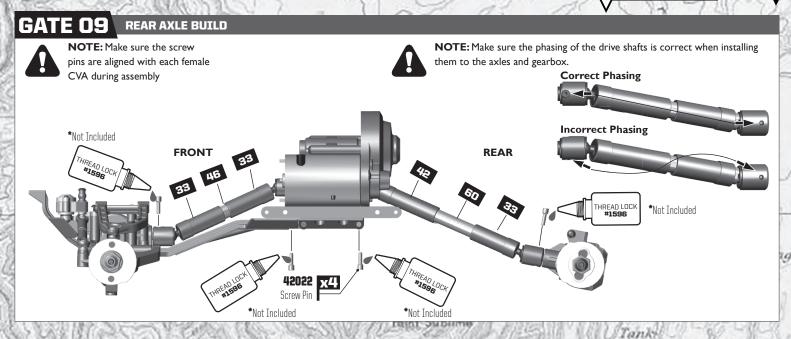


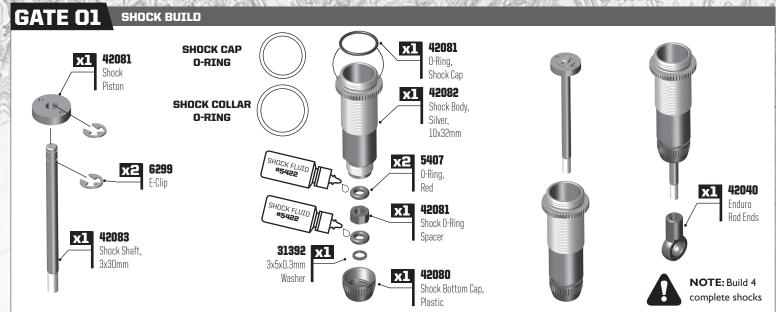
NOTE:

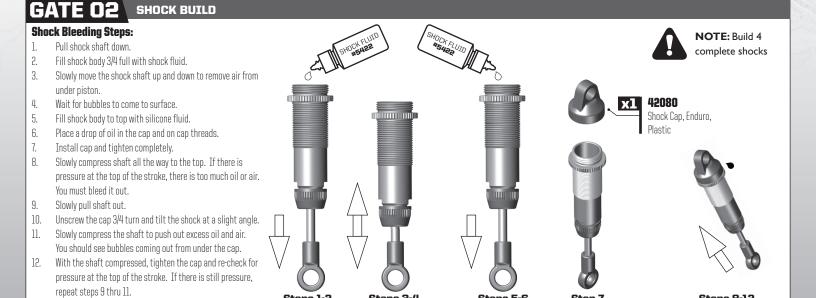
Build and install two rear trailing arms. Note the orientation











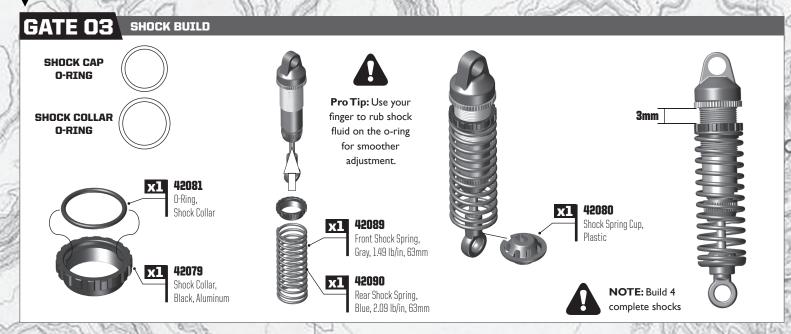
Steps 3-4

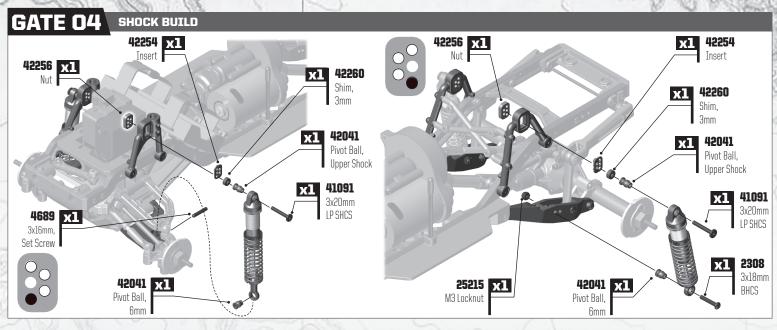
Steps 5-6

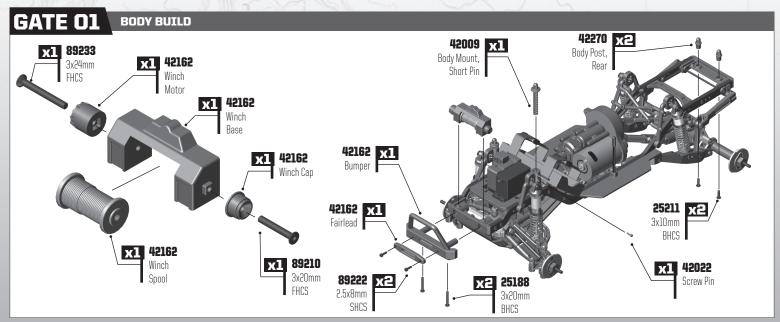
Step 7

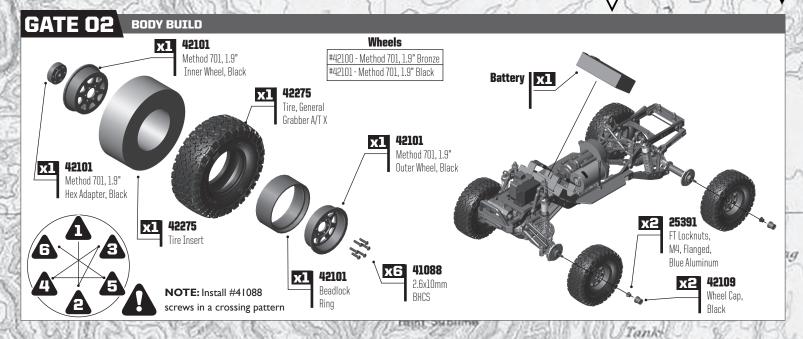
Steps 8-12

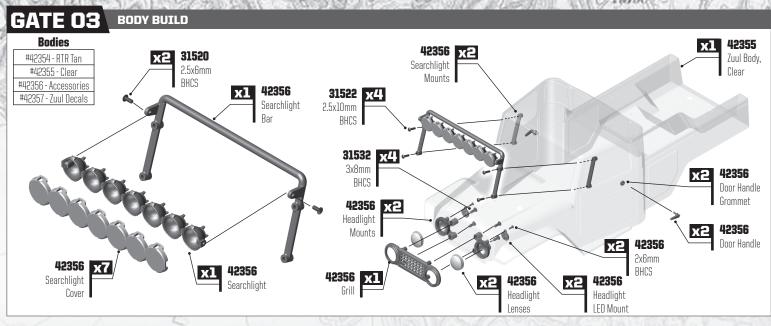
Steps 1-2

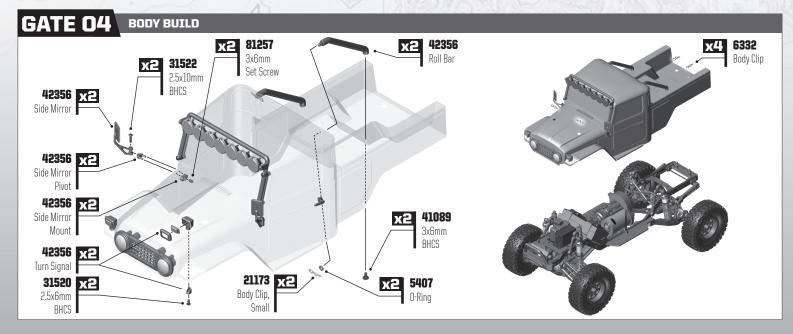














TRAIL TIPS AND CHECKLIST

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.

wenicle 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!	□Backpack
☐ Spare parts (nuts, screws, body clips, and anything that may wear or break)	□Water (2 liters per person minimum)
☐ Sturdy shoes (Hiking boots or something with grip and ankle support)	☐ Element hat or beanie
□ Element hoodie or jacket	☐ Snacks (protein bars, trailmix, etc.)
□Sunscreen	☐ Bug spray
□ Nut drivers (Factory Team Nut Drivers #1507, 1508)	□Lip balm
□ 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 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.



T

GATE 01

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



OVERDRIVE:

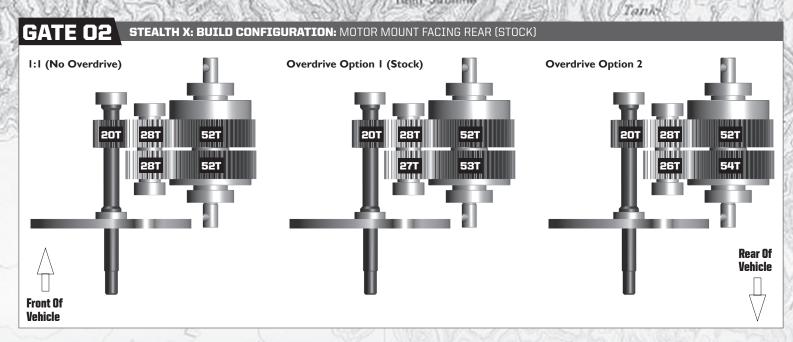
Overdrive is a scenario where the front and rear wheels do not rotate at the same speed. The Stealth X gearbox is designed to allow the front wheels to spin faster than the rear wheels. Overdrive is advantageouse when climbing up rock faces because the front tires will want to pull the vehicle up the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

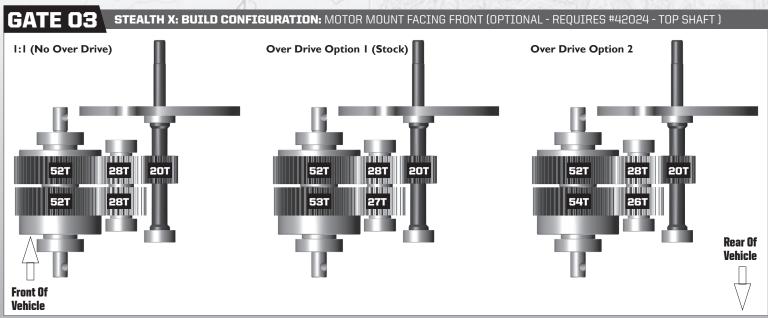
Stealth X:

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.

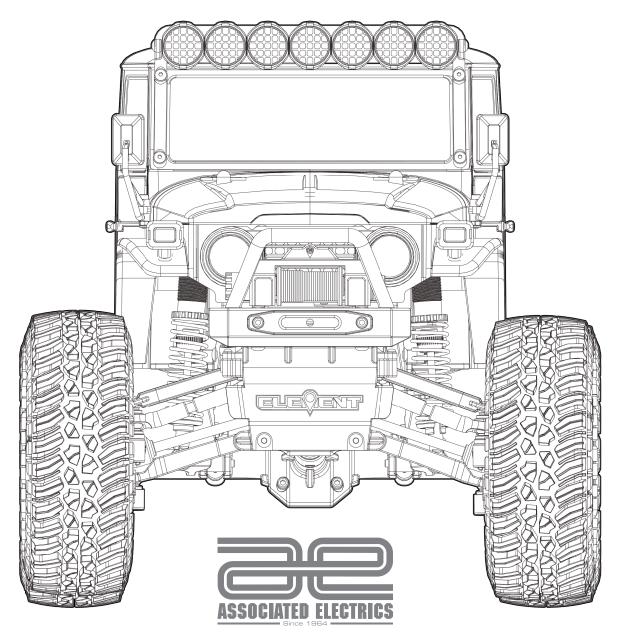
Please Note:

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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