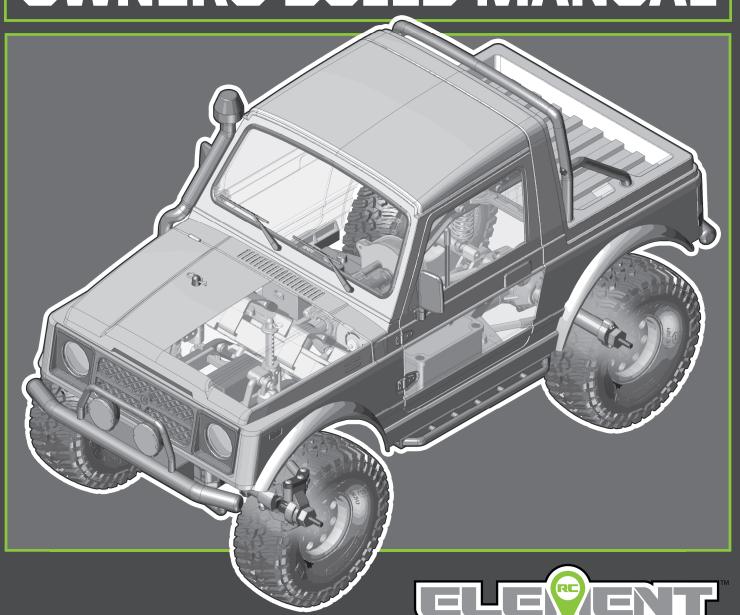




# OWNERS BUILD MANUAL







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

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 $\label{thm:pactor} \mbox{FACTORY TEAM is a Registered Trademark of Associated Electrics, Inc.}$ 

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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 Trail Truck.

- 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 Trail Truck.

- Threadlock (#1596
- Green Slime (#1105)

## 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.

## ENDURO TRAIL TRUCK

All in the details. Modeled after the small 1980s 4x4 kei car designs out of Japan, the Bushido features awesome looks on a capable chassis.

The single-piece polycarbonate body comes prepainted with clear windows and includes a highly-detailed decal sheet along with extra decals for making the Bushido your own. With injection-molded mirrors, grill, wipers, snorkle, bumpers, and rear bed cage for added scale realism, this rig is sure to look great on the trail.

Out of the box, the Bushido Off-Road 4X4 is ready to tackle the elements - your journey begins here!

OFFICIALLY LICENSED TIRES: Gripping the trail is a set of officially licensed General Grabber  $^{\text{TM}}$  X3 tires molded in a high-performance, soft compound rubber. The General Grabber  $^{\text{TM}}$  X3 tires are mounted on a set of Element RC Ocho beadlock wheels. No more worrying if your RTR tires will come unglued.

The Enduro Trail Truck comes ready for adventure right out of the box, with performance-driven Reedy Power electronics. The all-new, ultra-smooth and powerful, 16-turn 5-slot brushed crawler motor and Reedy Power SC480X electronic speed controller with T-plug connector, supply ample power to this tough rig. Controlling the beast on the trail is our 3-channel XP130 2.4GHz radio and Reedy Power high-torque 1320MG metal gear servo.

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

## **FEATURES**

- Stealth X Gearbox with adjustable overdrive gears
- BTA steering [Behind the Axle]
- CMS [Chassis Mounted Servo]
- Integrated servo winch mount
- · Adjustable front track bar
- Universal front drive axles
- Stamped steel C-Channel frame
- · Enclosed receiver box
- 12mm wheel hexes
- Adjustable front and rear bumper mounts
- · Adjustable width rock sliders
- Two battery boxes (Shorty and regular size!)
- Threaded aluminum shock bodies
- · Aluminum steering plates
- Aluminum motor plate
- · Adjustable body posts
- Optimized rod ends for more fluid axle articulation

- Adjustable rear shock mount positions
- Telescopic driveshaft's front and
- Extruded aluminum driveshaft splines
- One-piece rear axle design
- Splined front axle with adjustable caster
- Machined input pinion gear
- · Metal ring gear
- Machined steel top shaft
- Metal idler gears
- Heavy duty 5mm diameter steel links
- Precision metal ball bearings included
- Steel servo horn
- Licensed 1.9"x4.65" General Grabber X3 tires
- 11.8" (299mm) wheelbase

#### **ELECTRONICS:**

- Water resistant 2S-3S LiPo compatible Reedy SC480X brushed electronic speed control with adjustable drag brake and T-plug battery connector
- Smooth and powerful Reedy
   Crawler 16T 5-slot brushed motor
- XPI30 2.4GHz radio system (3 Channel)
- Reedy high-torque 1320MG metal gear servo (13kg/180 oz.)

#### BUSHIDO BODY FEATURES:

- Bushido I-piece body thermoformed in high-strength polycarbonate
- Clear windows
- Injection-molded snorkel, wipers, and pivoting side mirrors
- Injection-molded rear bed cage
- Molded grill
- Adjustable front / rear bumpers

# 03

## **HARDWARE 1:1 SCALE VIEW**

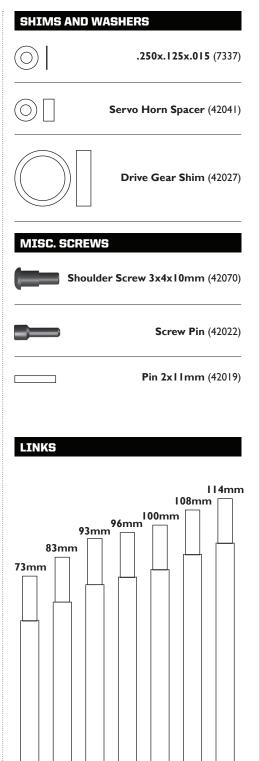
#### HARDWARE USED WITH OPTIONAL REPLACEMENT PART NUMBERS

FLAT HEAD SCREWS	
	<b>2.5x10</b> mm (31350)
	2.5x14mm (41077)
	<b>3x8mm</b> (25201)
	3x10mm (25202)
	<b>3x12mm</b> (25203)
	3x14mm (89208)
BUTTON HEAD SCRE	WS (BHCS)
	2.6×10mm (41088) Self Tapping Thread
	3x5mm (31530)
	<b>3x6mm</b> (31531)
	3x8mm (31532) Aluminum (8552)
	3x10mm (25211) Aluminum (8554)
	3x12mm (89202)
	<b>3x14mm</b> (25187)
	<b>3x16mm</b> (89203)
	3x18mm (2308)
	<b>3x20mm</b> (25188)
	3x28mm (41078)

SOCKET HEAD	SCREWS (SHCS)
	2x5mm (31511) Aluminum (8566)
	2x8mm (7187)
	<b>2.5x6mm</b> (41079)
	<b>2.5×10</b> (41087)
	<b>2.5×14</b> (71032)
	<b>2.5×16</b> (41086)
SET SCREWS	
	<b>3x3mm</b> (25225)
	3x16mm (4689)
PIVOT BALLS	
	Pivot Ball, Short (42041)
Pivot Ba	III, Long, Upper Shock (42041)
LOCK NUTS	
LUGKINUTS	<b>M3 Locknuts</b> (25215)
	Aluminum (31550)
	M4 Locknut W/Flange (25391)
BEARINGS	
	<b>5x10x4mm</b> (91560)
	7-14-2 France (01474)

7x14x3.5mm (91474)

10x15x4mm (91563)





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4/18/2023

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**OPTIONAL GEARBOX BUILD** 

TRAIL TIPS

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. \*not included



This symbol indicates where Thread Lock Adhesive should be applied. \*not included



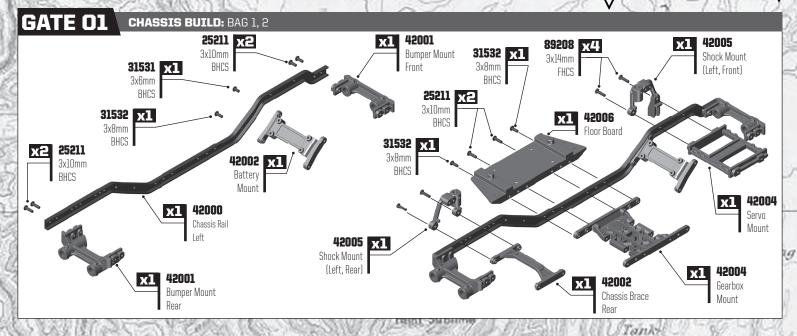
This symbol indicates where Shock Fluid should be applied.

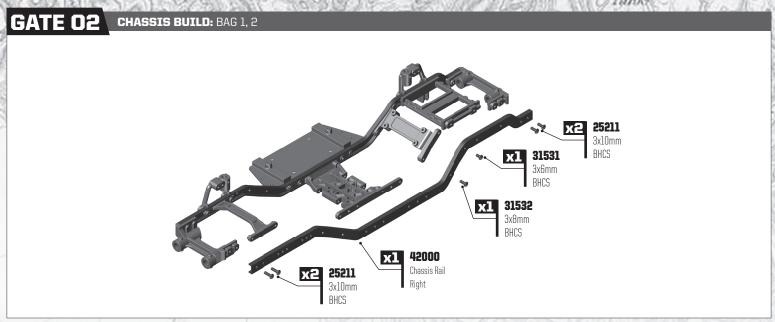


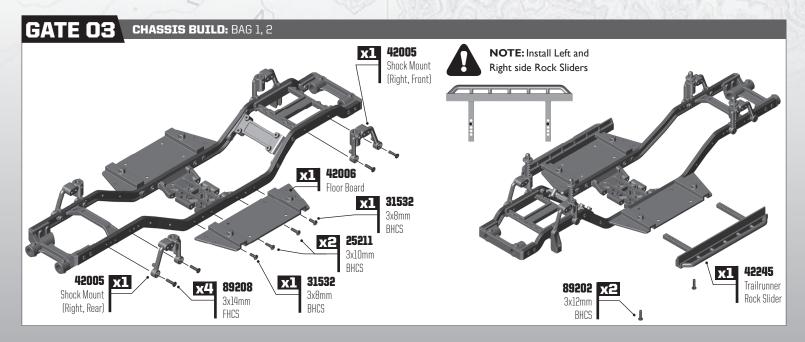
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.

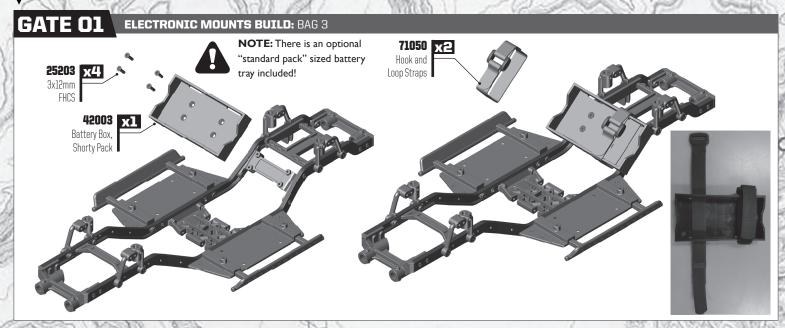


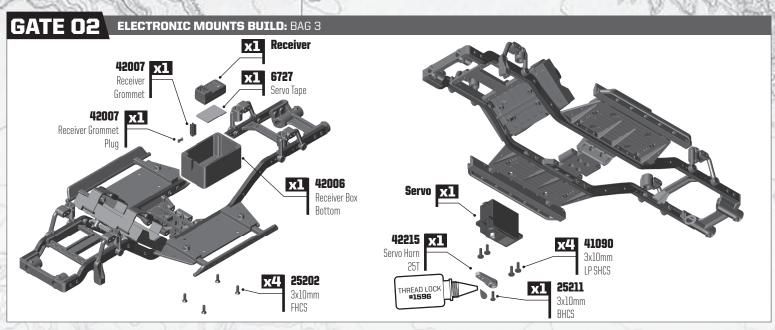


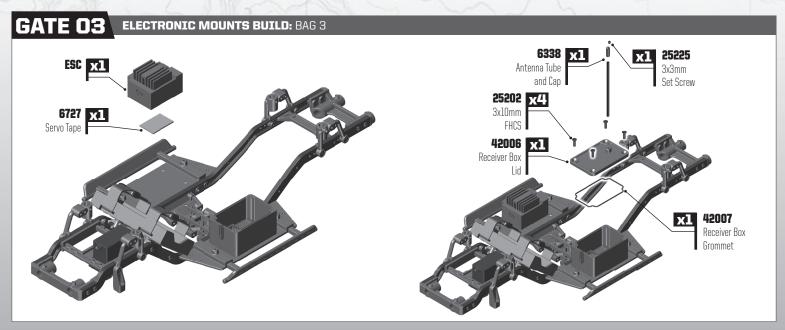






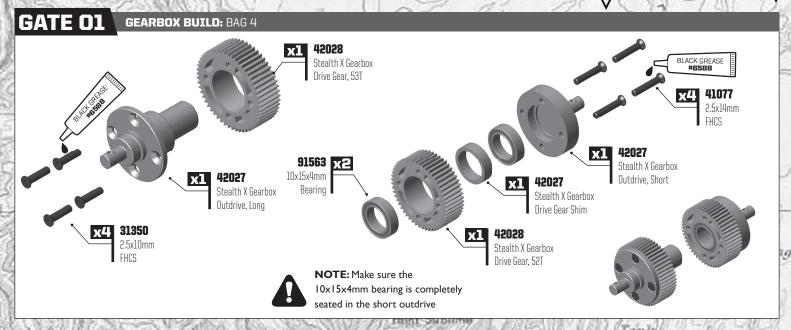


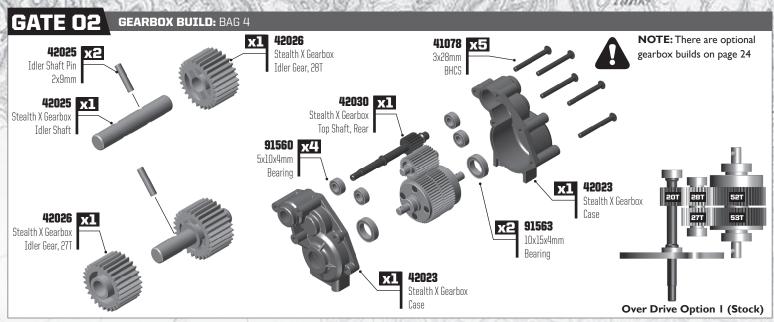


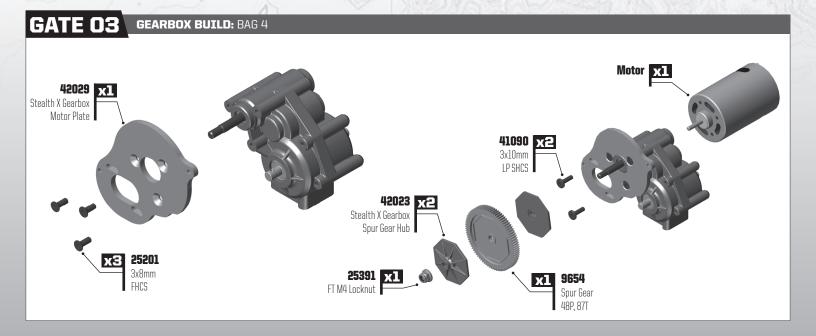


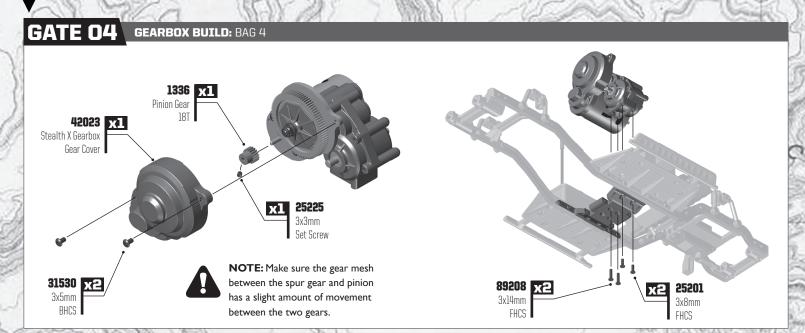


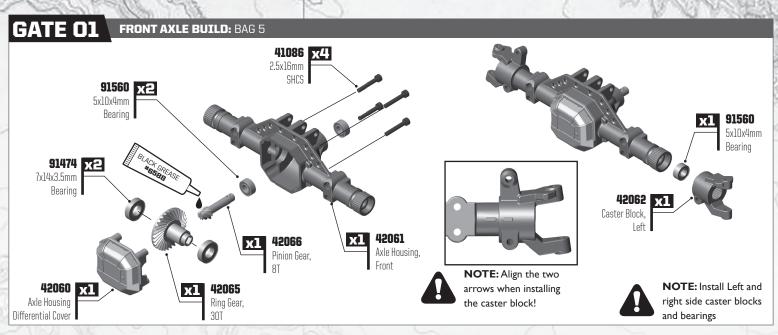


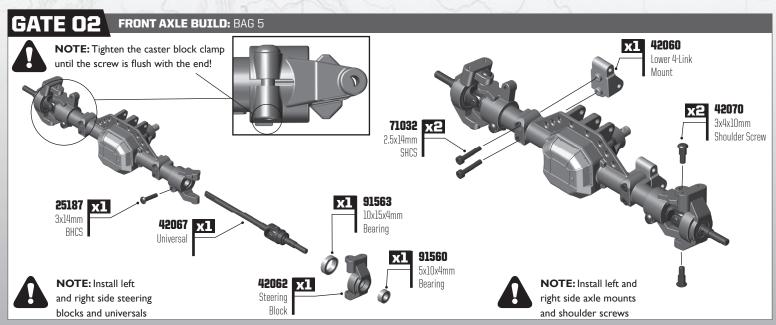






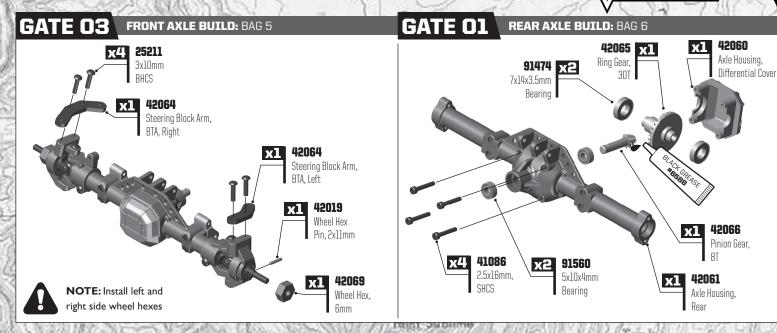


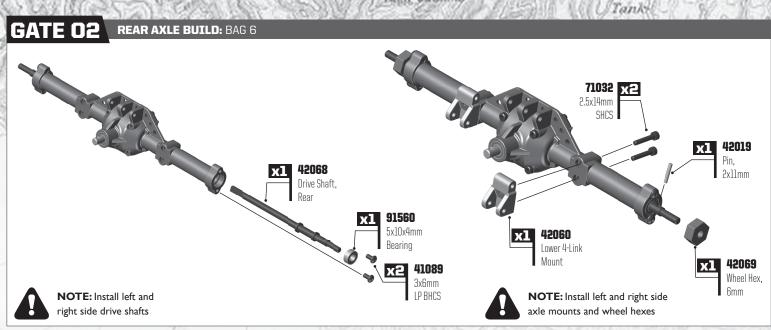


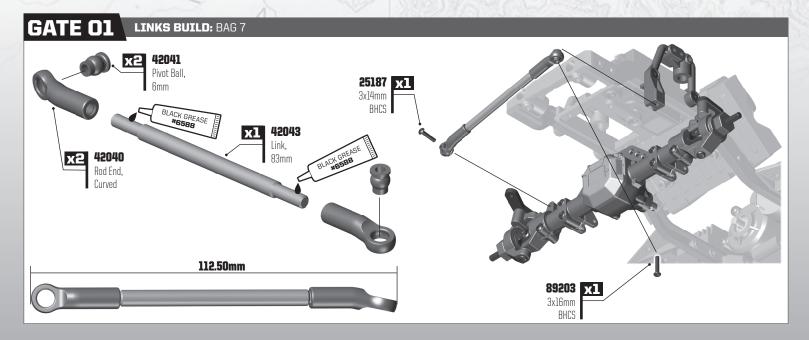


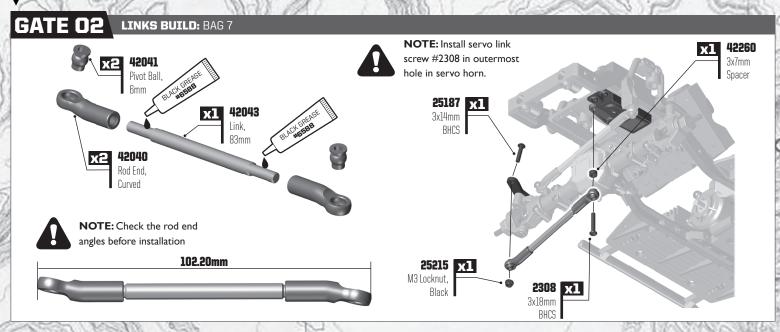


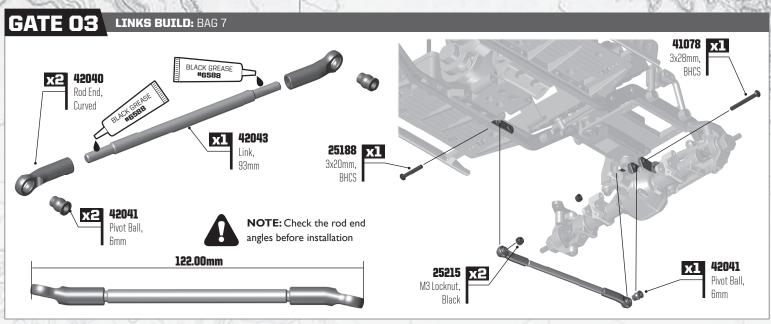


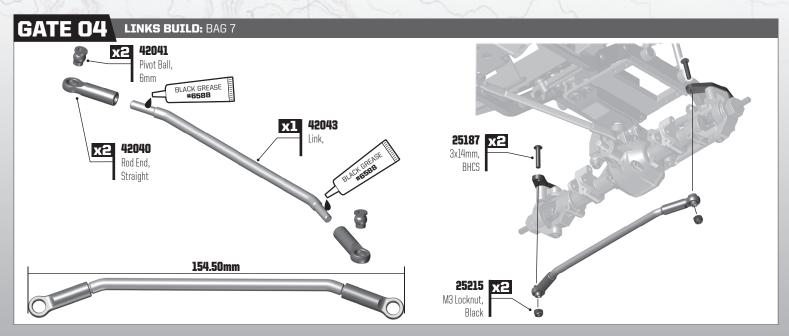




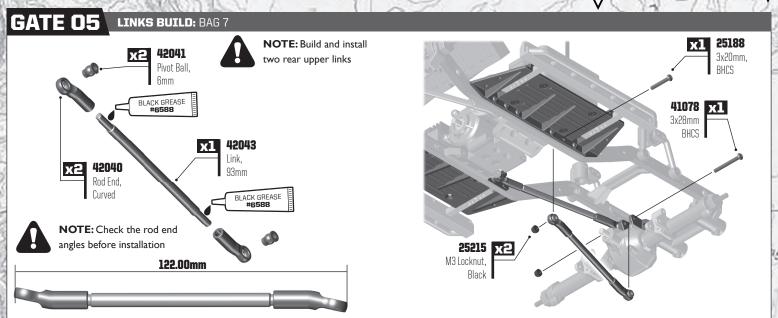


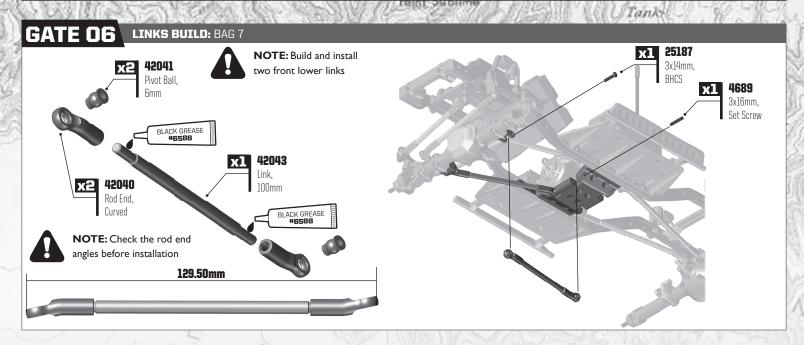


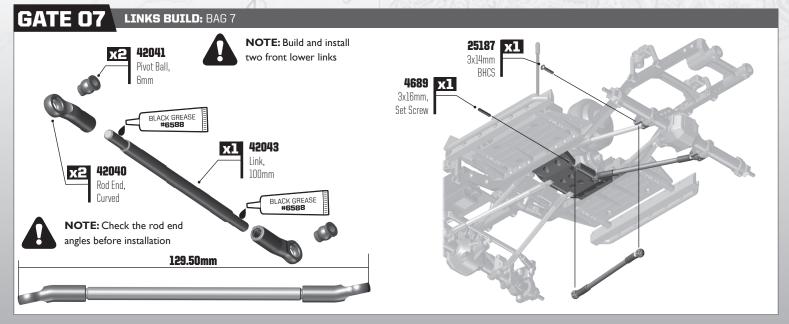


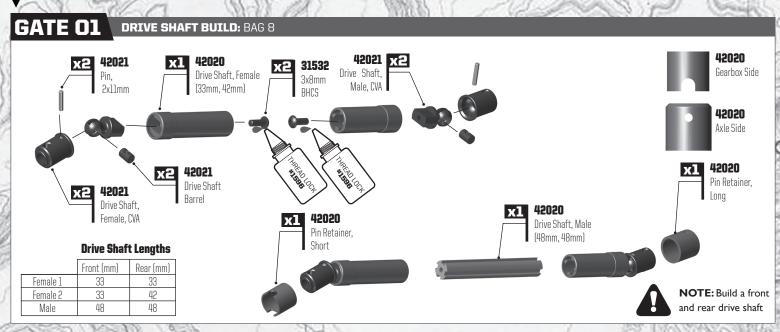


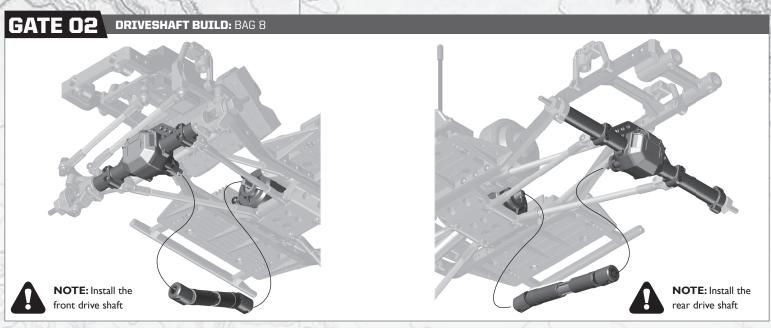


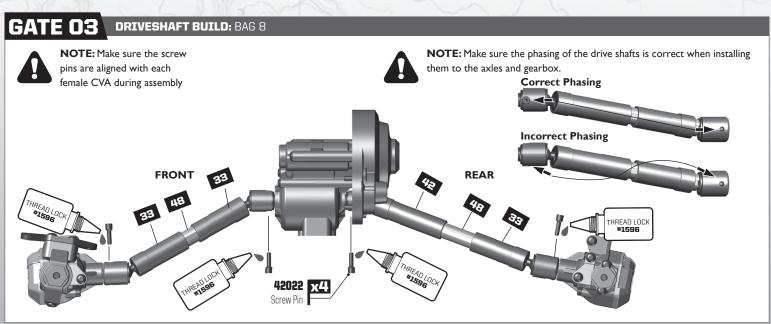




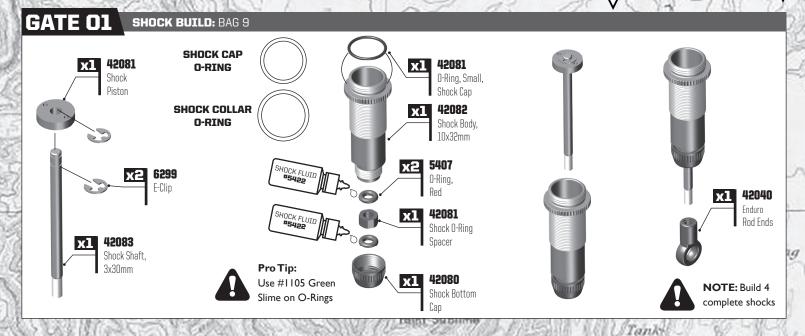








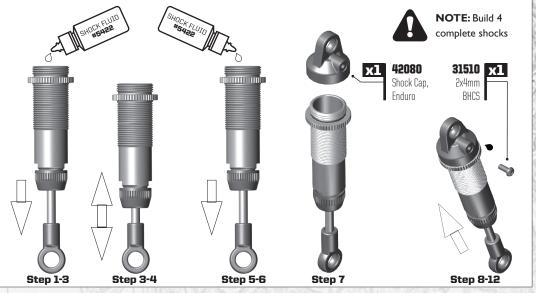




## SHOCK BUILD: BAG 9

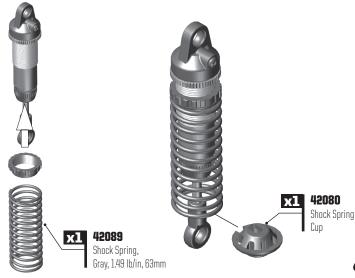
## **Shock Bleeding Steps:**

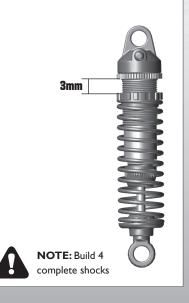
- Pull shock shaft down.
- 2. Fill shock body 3/4 full with silicone fluid.
- 3. Slowly move the shock shaft up and down to remove air from under piston.
- 4. Wait for bubbles to come to surface.
- Fill shock body to top with silicone fluid. 5.
- 6. Place a drop of oil in the cap and on cap threads.
- 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.
- Unscrew the cap 3/4 turn and tilt the shock at a slight angle. 10.
- 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 thrull.

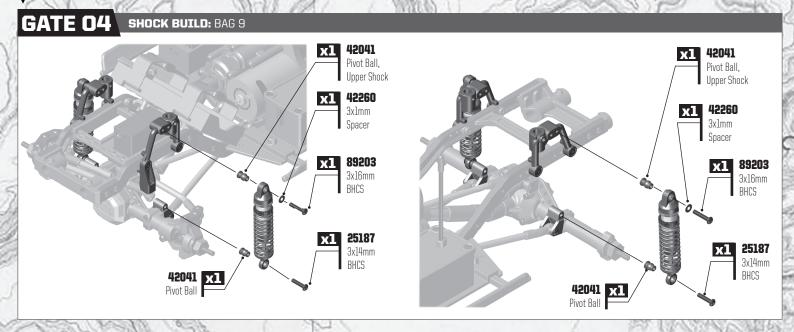


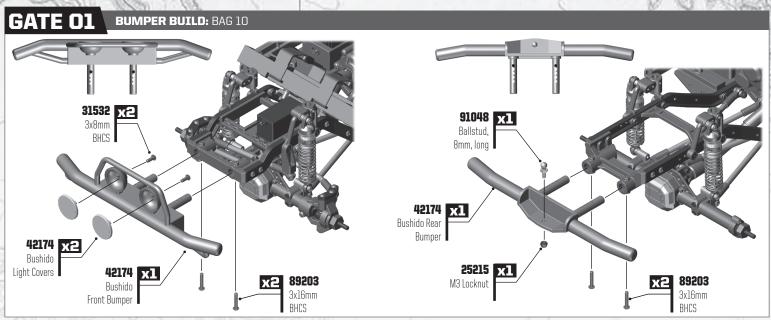
## GATE 03 **SHOCK BUILD:** BAG 9 NOTE: Seat O-Ring into





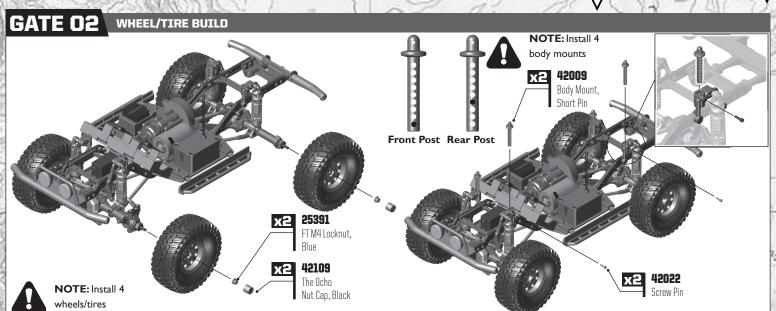


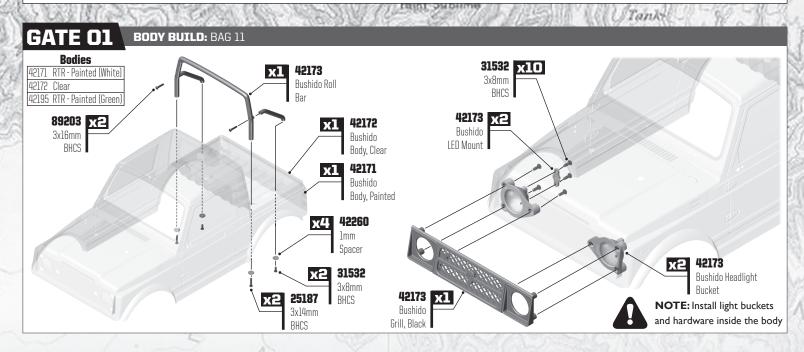


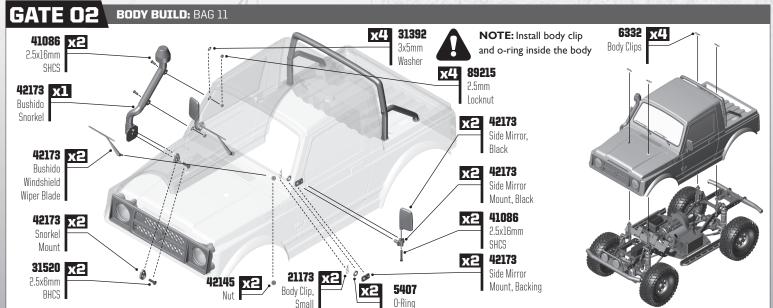












## GATE 01

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



## **OVERDRIVE:**

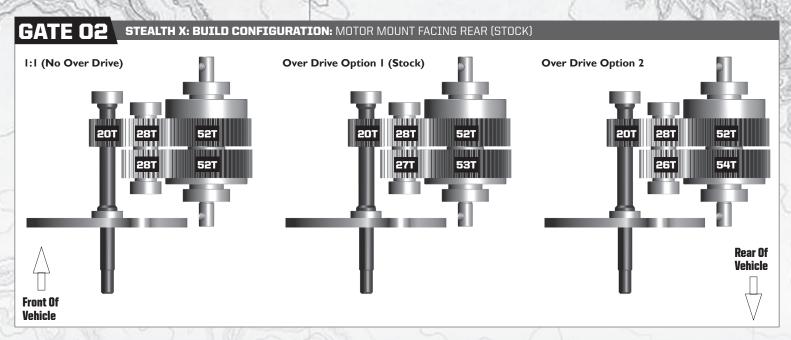
Overdrive is a scenario where the front and rear wheels do not rotate at the same speed. The Stealth X gearbox is designed to allow the front wheels to spin faster than the rear wheels. Overdrive is advantageouse when climbing up rock faces because the front tires will want to pull the vehicle up the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

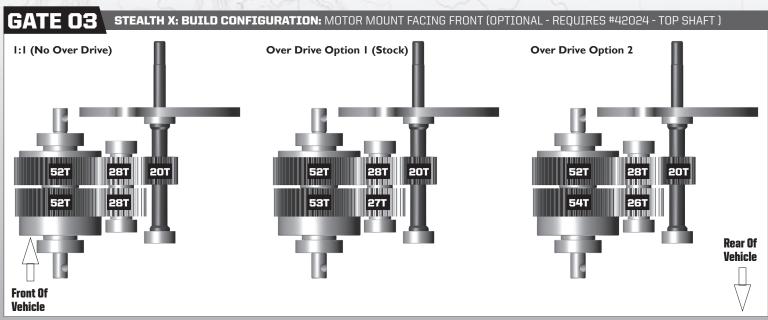
#### Stealth X:

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.







## 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
☐ I-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:

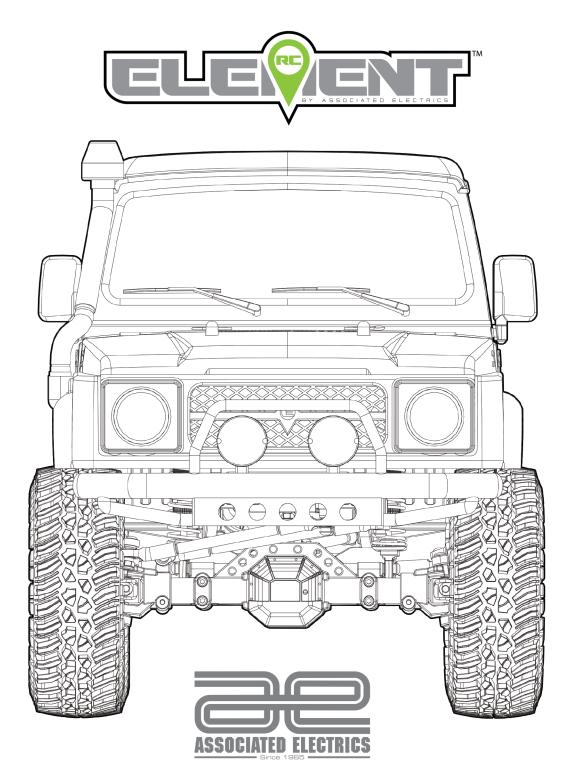
If you're sharing an area with other people, try to keep the noise to a minimum. If you come across animals or anglers, please be considerate and give them space.

## • 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**.



## ASSOCIATED ELECTRICS, INC. 21062 BAKE PARKWAY LAKE FOREST, CA 92630 USA

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