

RC10 TRAIL TRUCK

CATTLEMAN
TRAIL TRUCK KIT



TEAM ASSOCIATED

1:10 SCALE ENDURO
SERIES ROCK CRAWLER





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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.

- 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.

CATTLEMAN TRAIL TRUCK KIT

A performance rig built to endure. When hitting the trail, you want to do it with confidence, and the answer is the Cattleman Trail Truck Kit!

At the heart of the Cattleman Trail Truck Kit 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%, option 1 provides a one-to-one drive ratio front-to-rear (available separately), and option 2 overdrives the front end 11.83%. 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.

The Cattleman Trail Truck Kit 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.

With all this packed in one box, we know the Cattleman Rock Crawler Kit is ready for the trail – Are you?

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)
- Adjustable front track bar
- Universal front drive axles
- Gold colored stamped steel frame rails
- 12mm wheel hexes
- Adjustable front bumper mount
- Two battery boxes
- Gold anodized 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
- Clear RC10 Trail Truck Cattleman body thermoformed in high-strength polycarbonate
- Single-piece body with roof rack
- Adjustable injection-molded front and rear bumpers
- Realistic styling
- Licensed 1.9"x4.65" General Grabber™ X3 tires
- Licensed 1.9" Method 701 Trail Series beadlock wheels


















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.



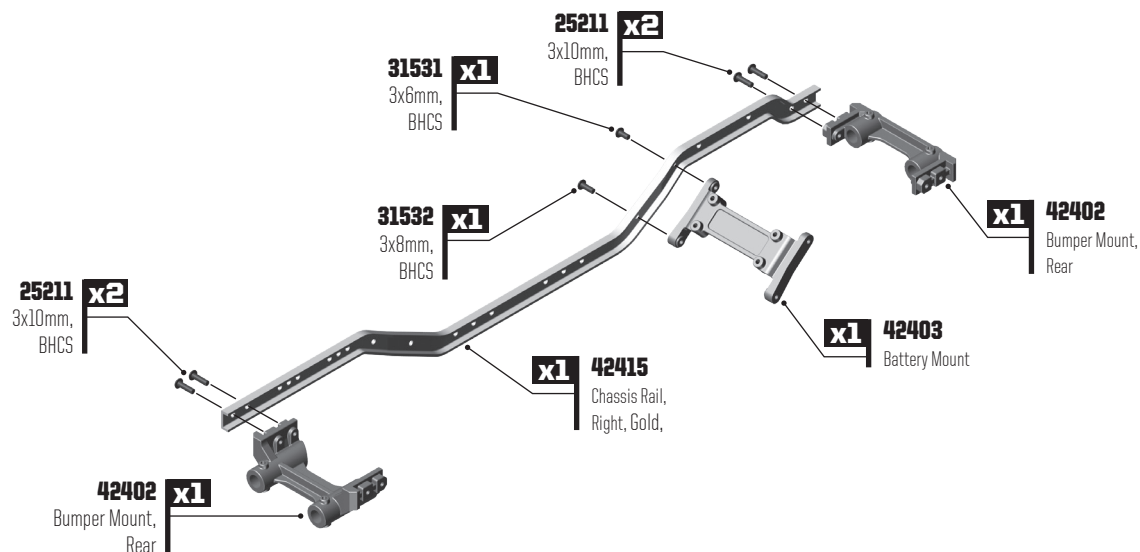
This symbol indicates where Shock Fluid should be applied.



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.

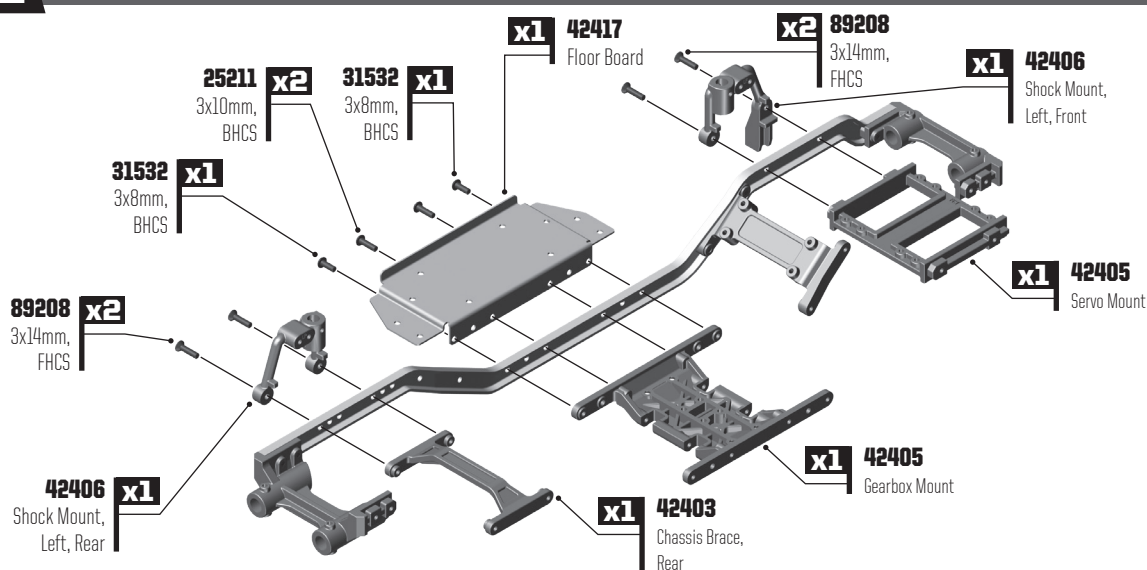
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BAG 1 - CHASSIS BUILD



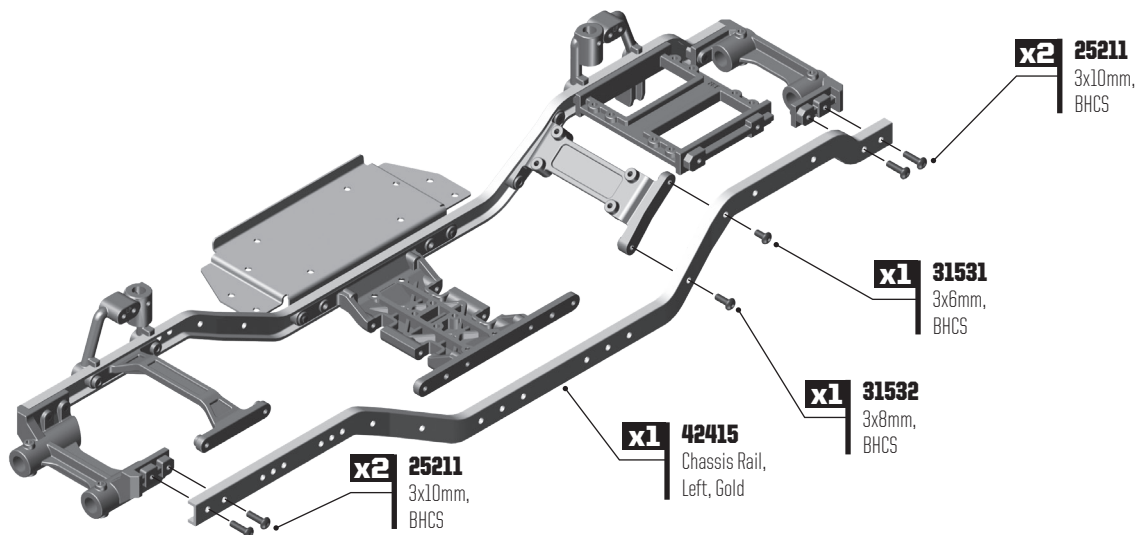
GATE 02

BAG 1 - CHASSIS BUILD



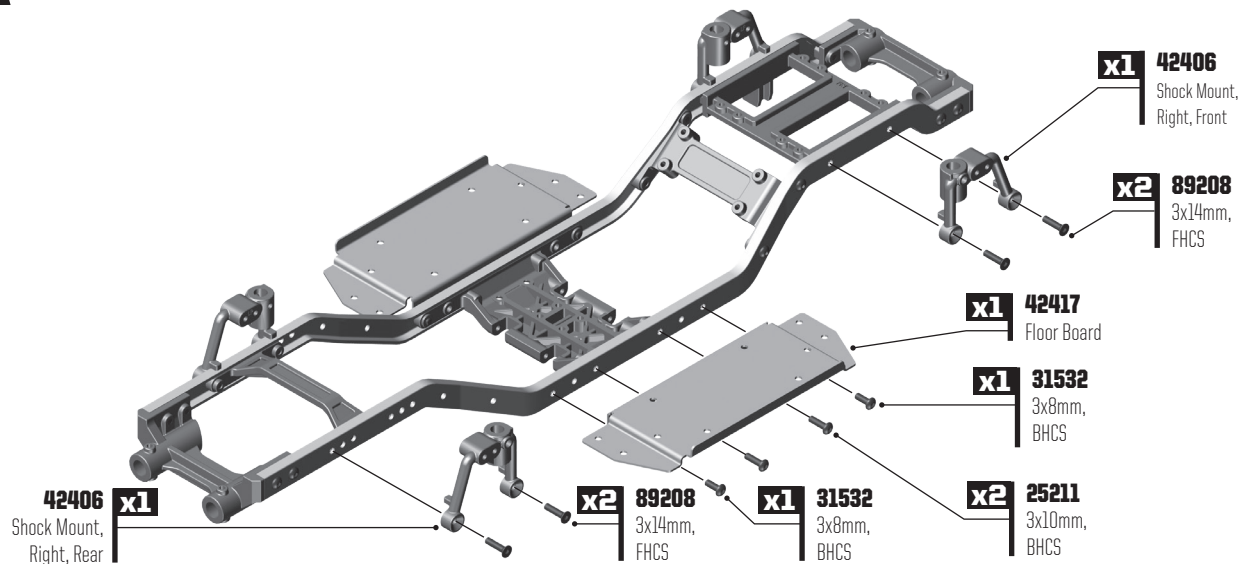
GATE 03

BAG 1 - CHASSIS BUILD



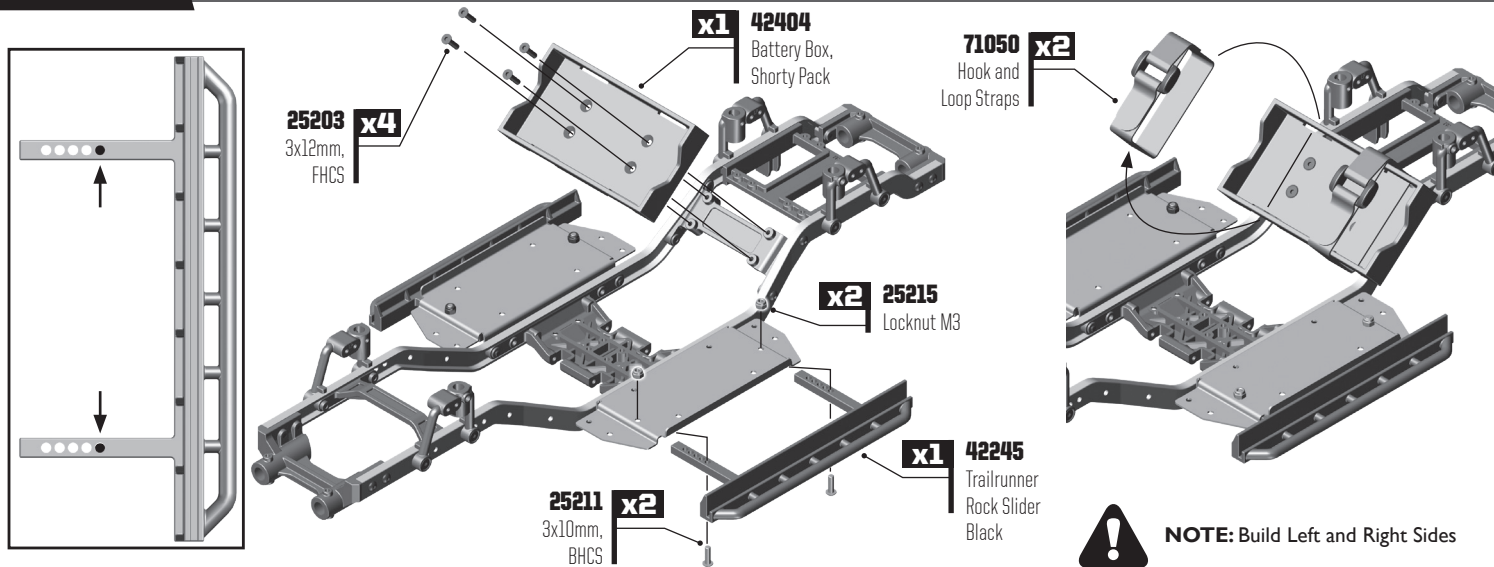
GATE 04

BAG 1 - CHASSIS BUILD



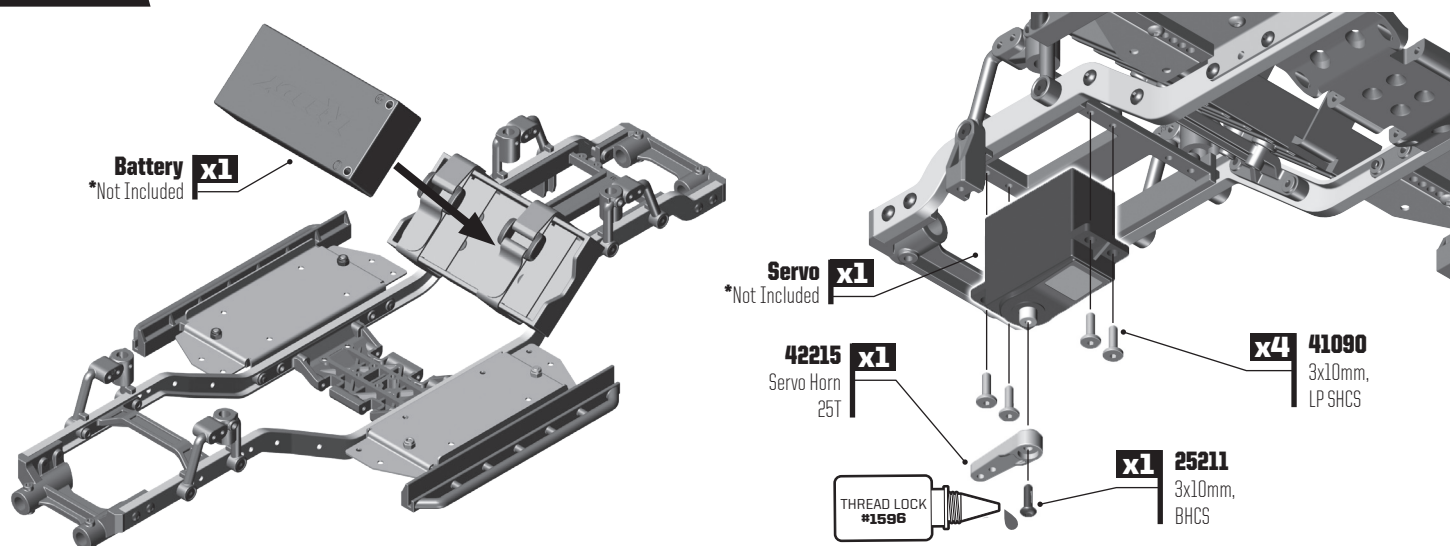
GATE 01

BAG 2 - ELECTRONIC MOUNTS BUILD

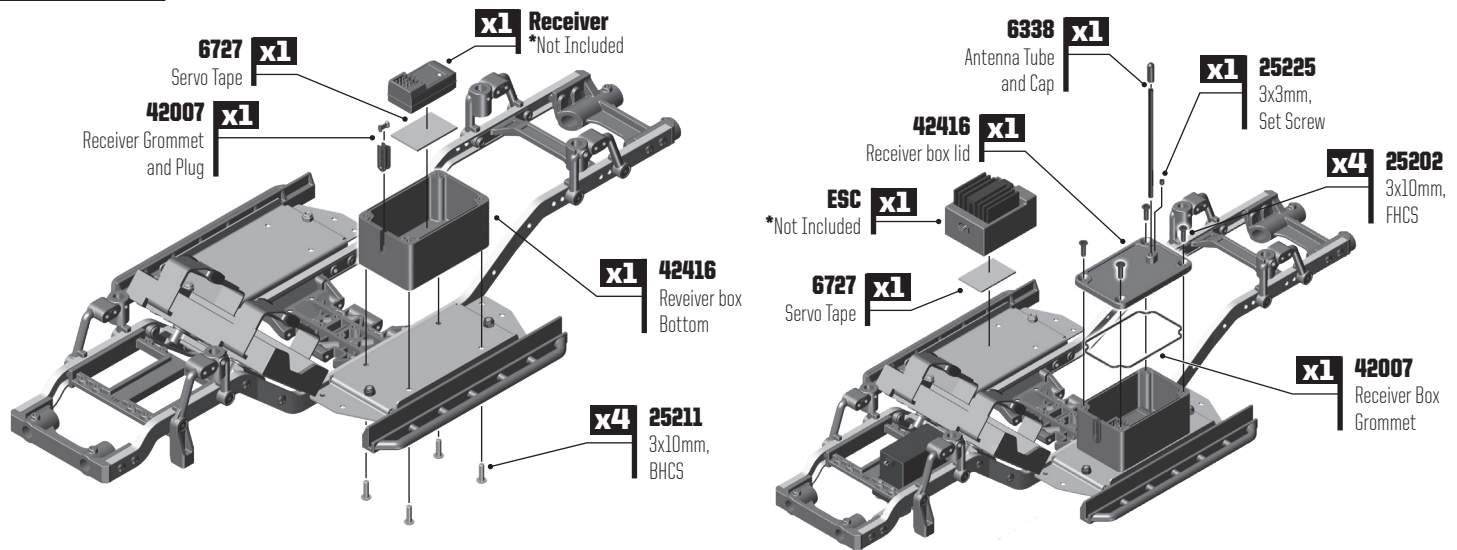


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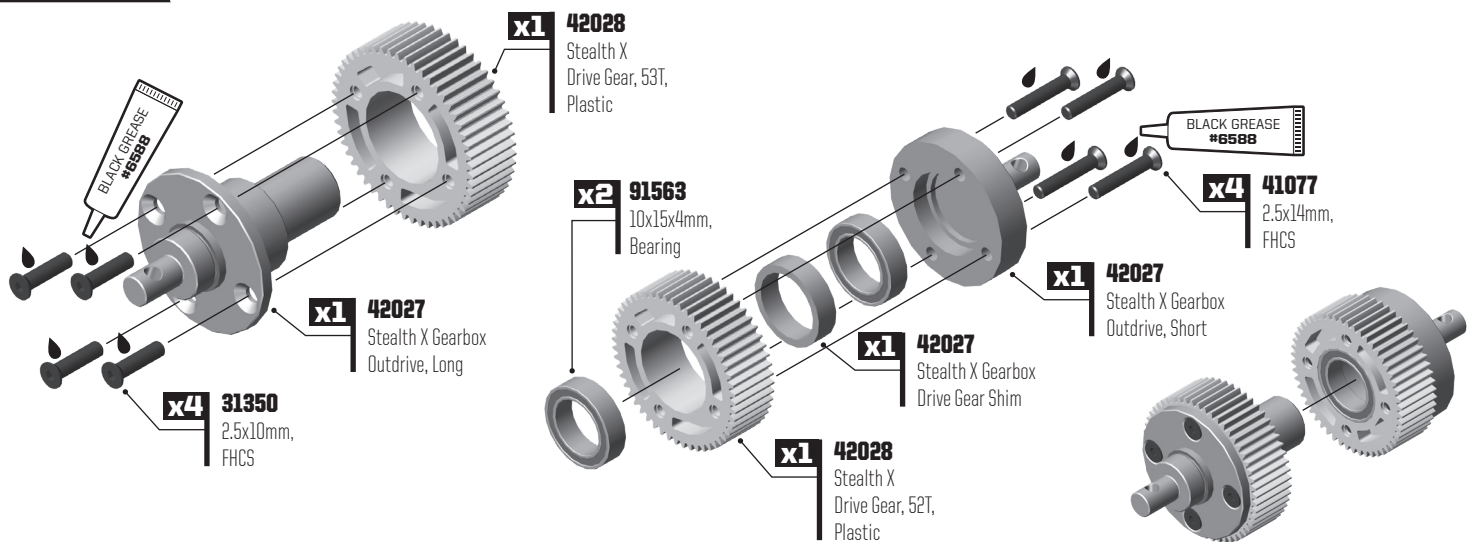
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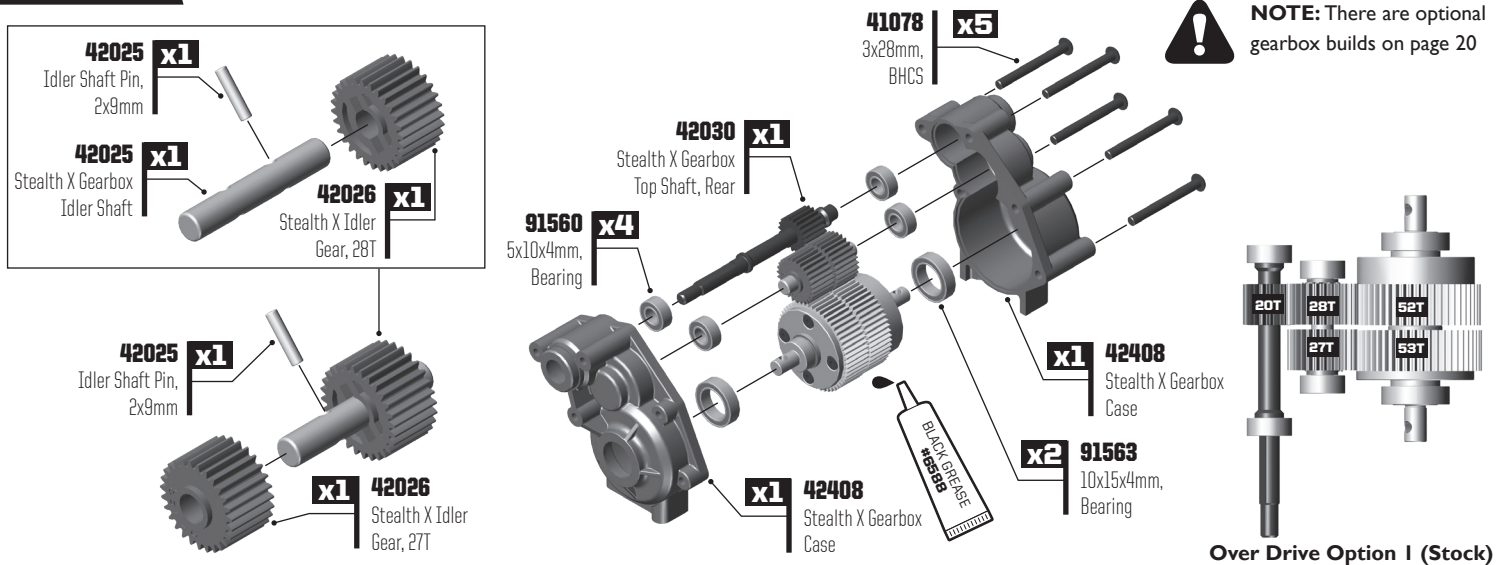
GATE 03 BAG 2 - ELECTRONIC MOUNTS BUILD



GATE 01 BAG 3 - GEARBOX BUILD

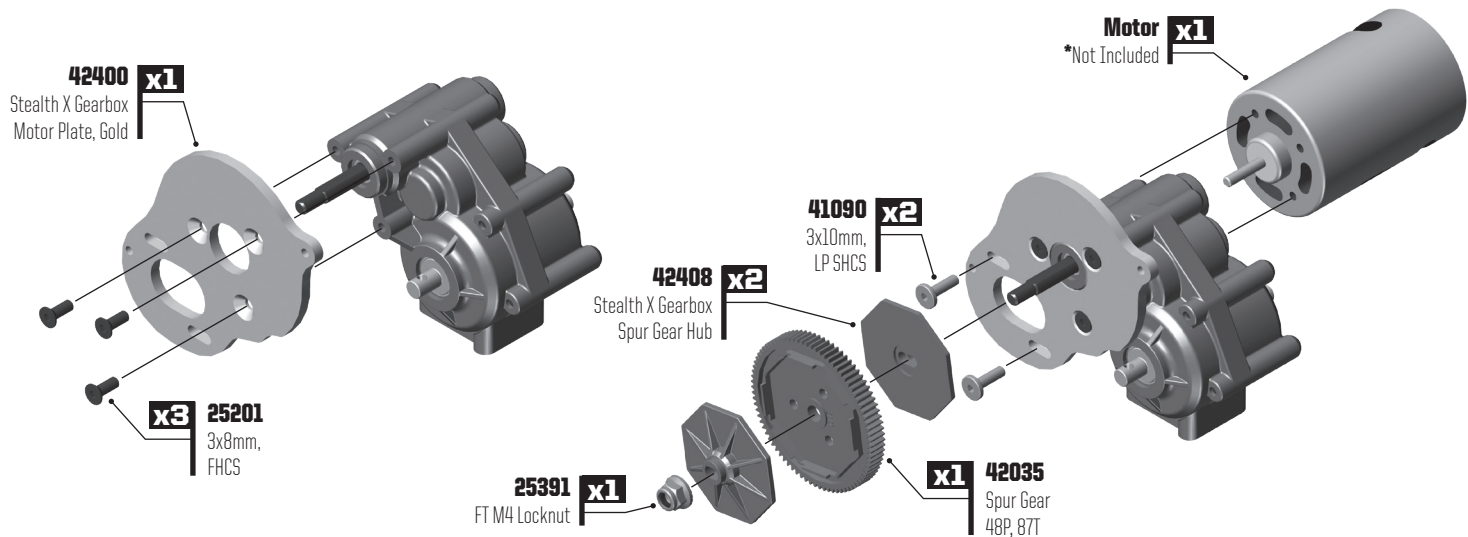


GATE 02 BAG 3 - GEARBOX BUILD



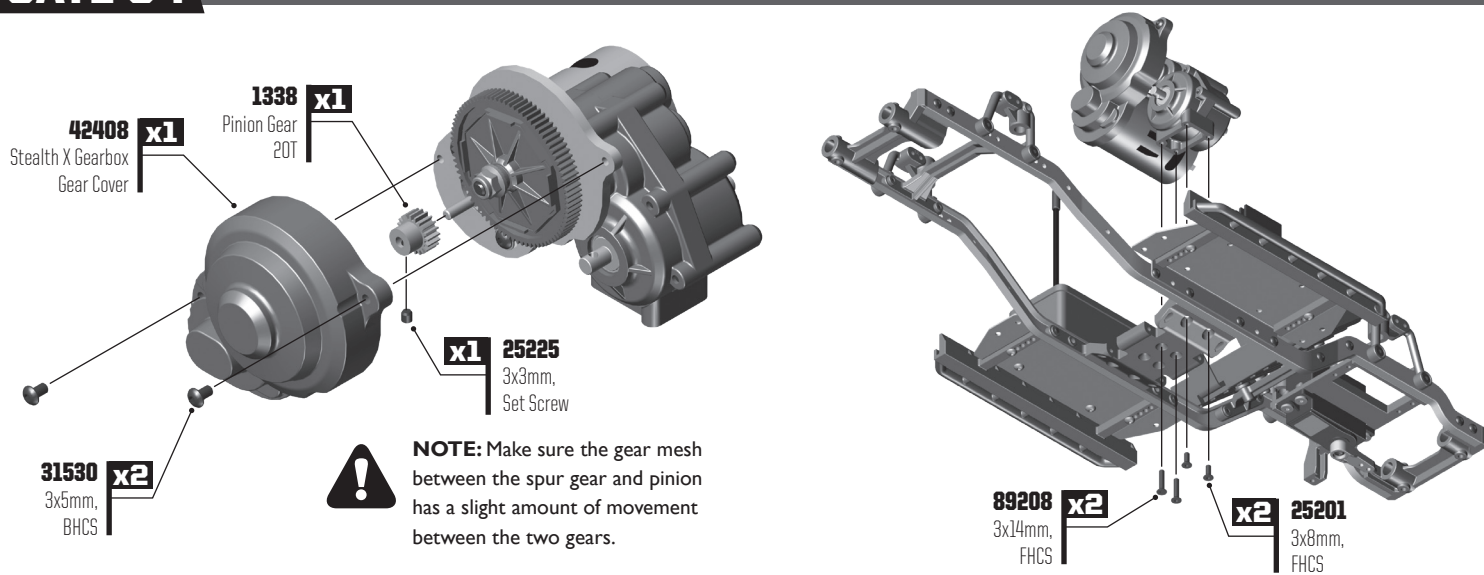
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BAG 3 - GEARBOX BUILD



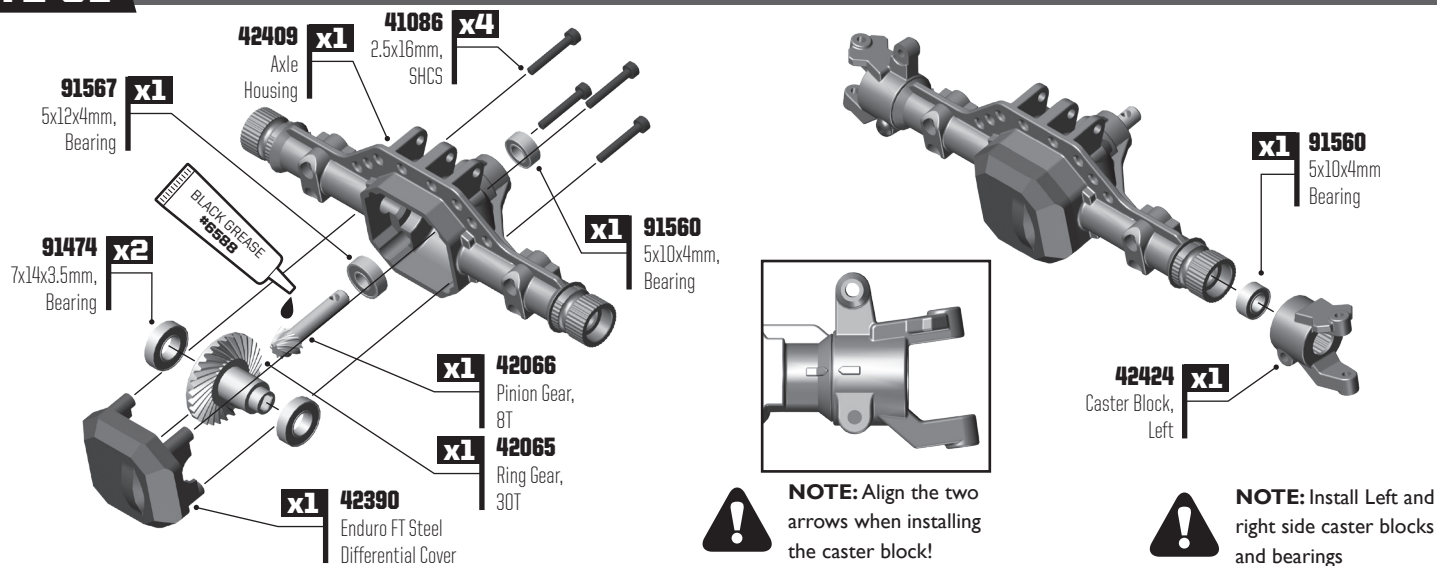
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BAG 3 - GEARBOX BUILD

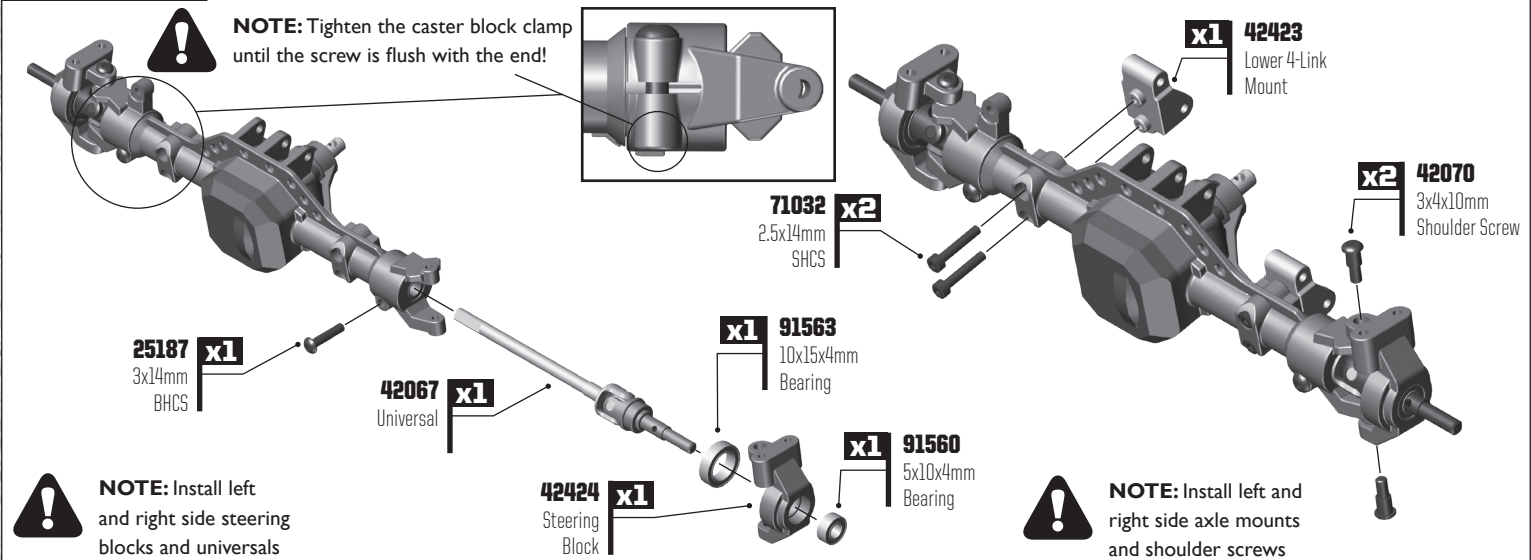


GATE 01

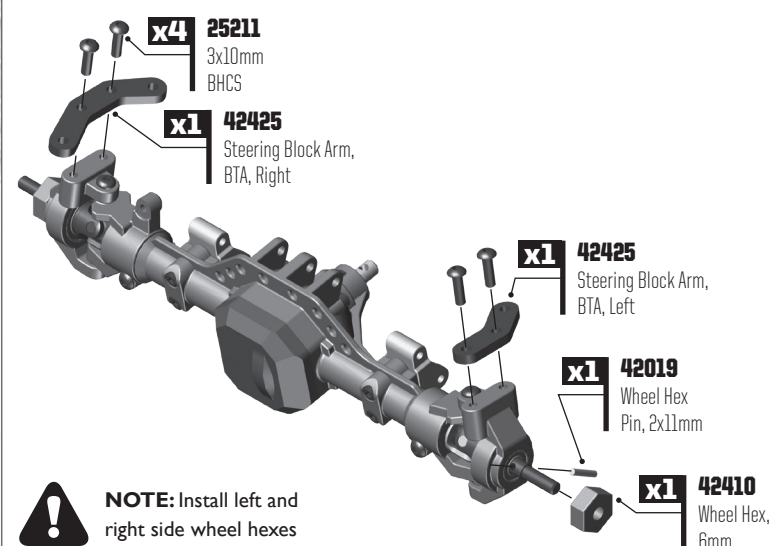
BAG 4 - FRONT AXLE BUILD



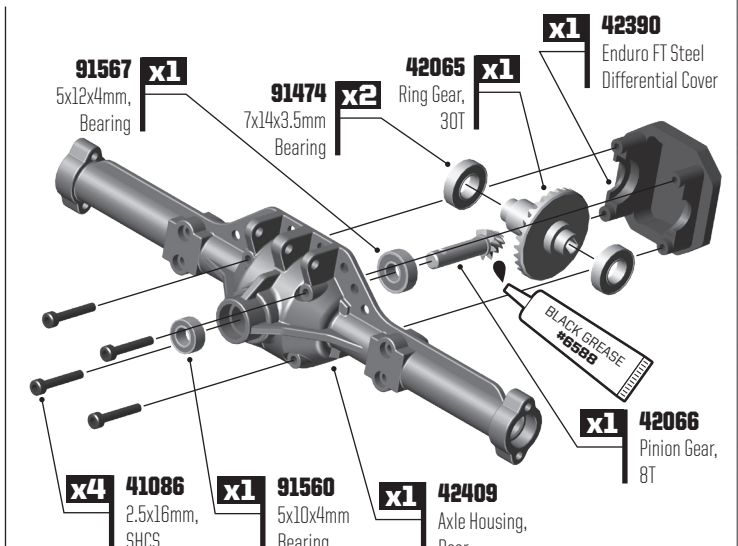
GATE 02 BAG 4 - FRONT AXLE BUILD



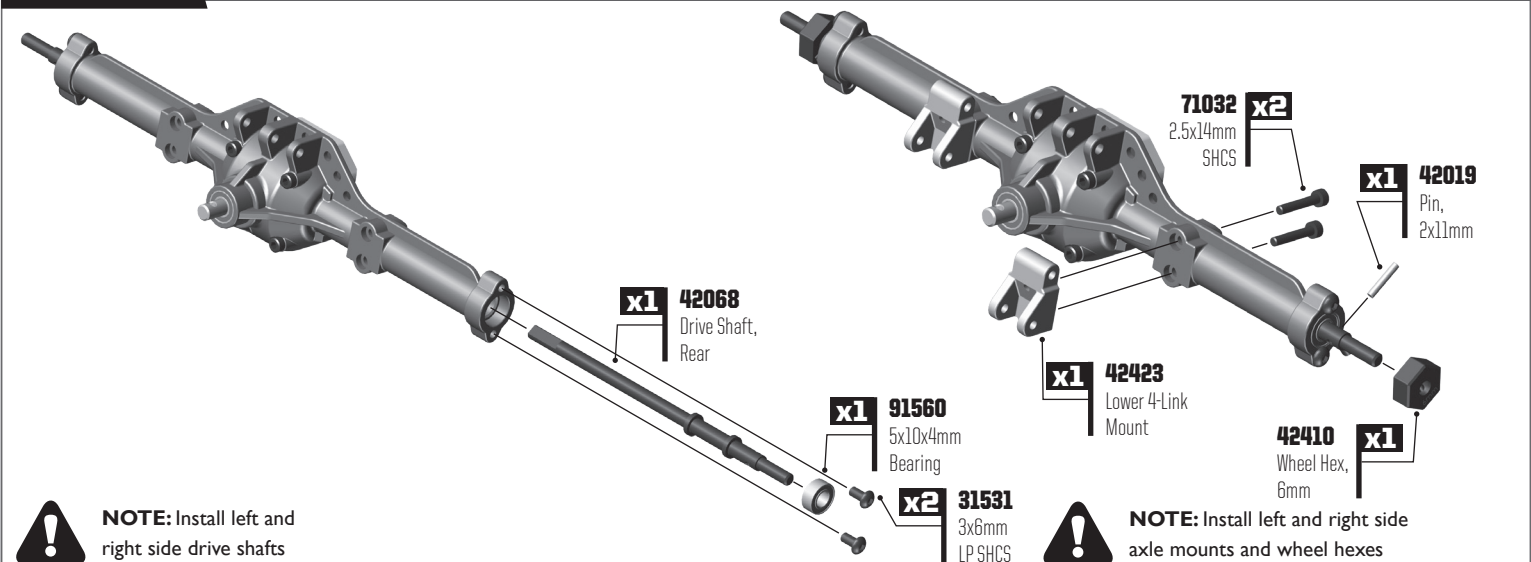
GATE 03 BAG 4 - FRONT AXLE BUILD



GATE 04 BAG 4 - REAR AXLE BUILD



GATE 05 BAG 4 - REAR AXLE BUILD

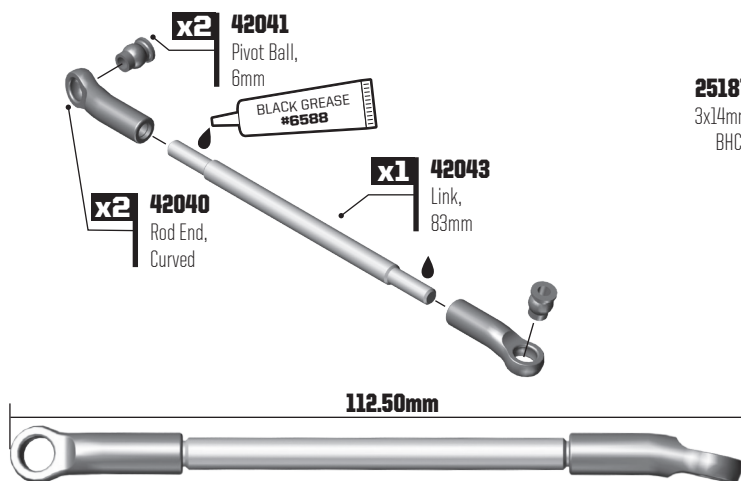


10

YOUR BUILD BEGINS HERE.

GATE 01

BAG 5 - LINKS BUILD



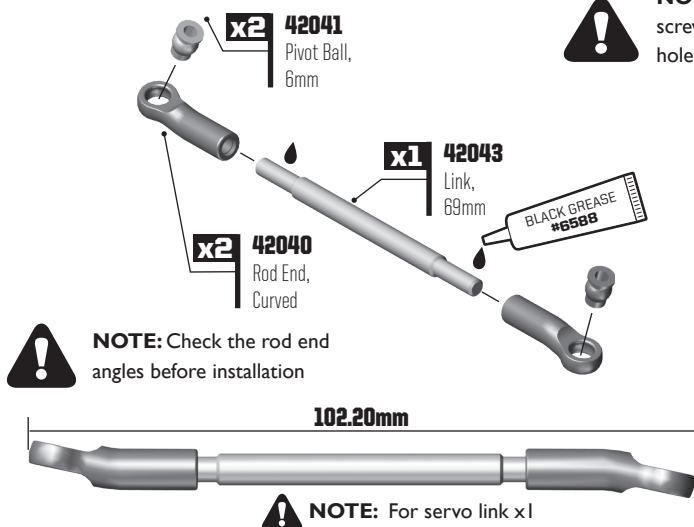
25187 **x1**
3x14mm BHCS

89203 **x1**
3x16mm BHCS

GATE 02

BAG 5 - LINKS BUILD

NOTE: Install servo link screw #2308 in outermost hole in servo horn.



42041 **x1**
3x7mm Spacer

25187 **x1**
3x14mm BHCS

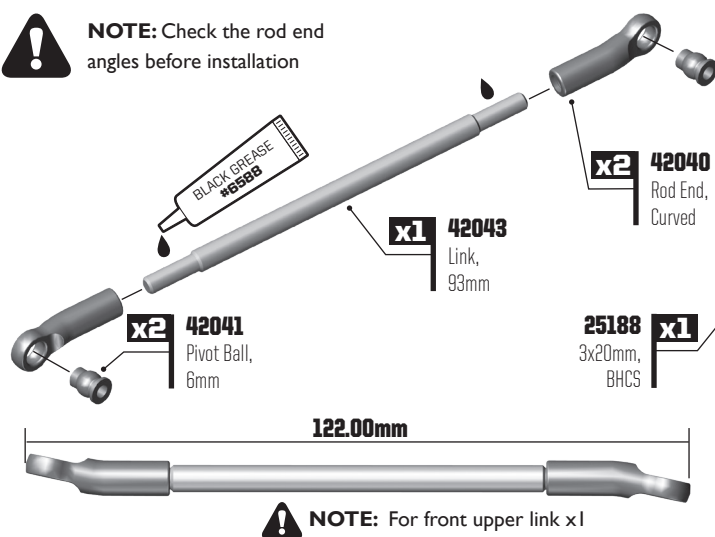
89203 **x1**
3x16mm BHCS

25215 **x2**
M3 Locknut, Black

GATE 03

BAG 5 - LINKS BUILD

NOTE: Check the rod end angles before installation



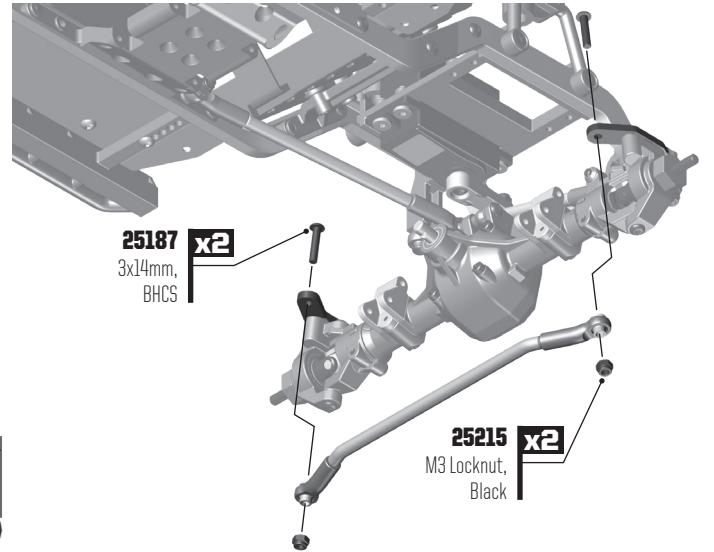
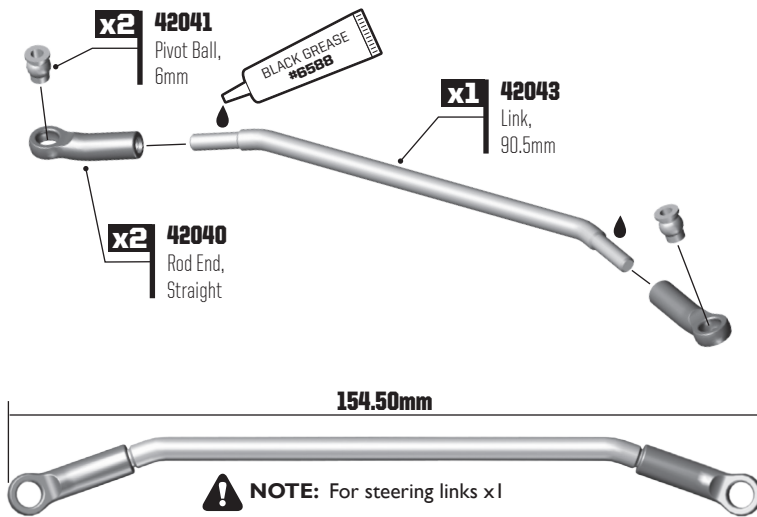
25188 **x1**
3x20mm, BHCS

25215 **x2**
M3 Locknut, Black

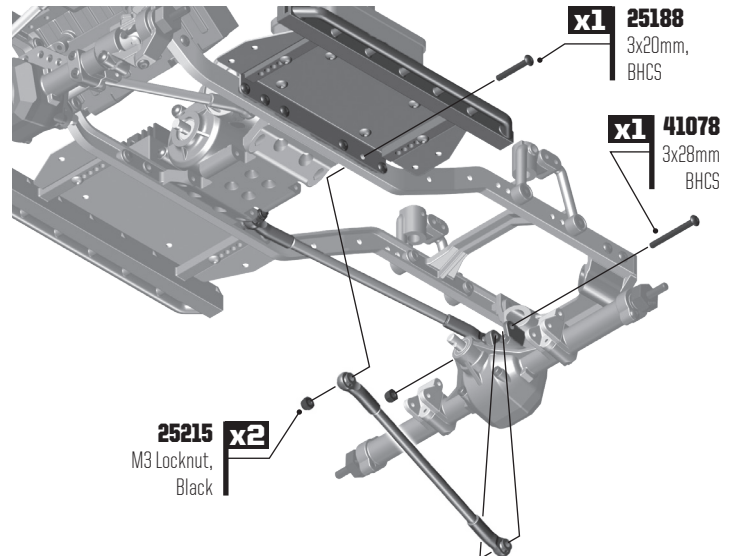
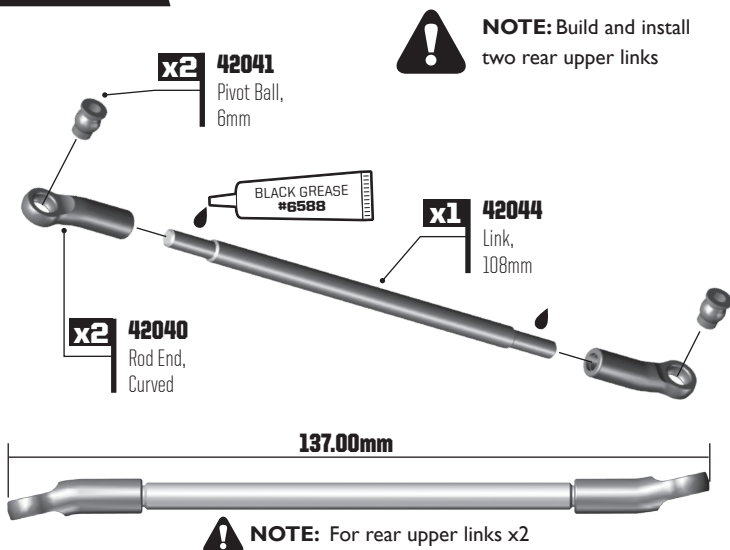
41078 **x1**
3x28mm, BHCS

x1 42041 Pivot Ball, 6mm

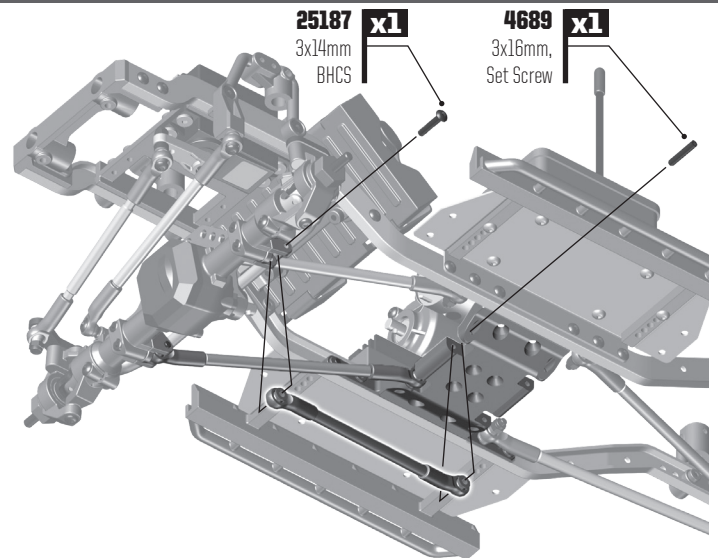
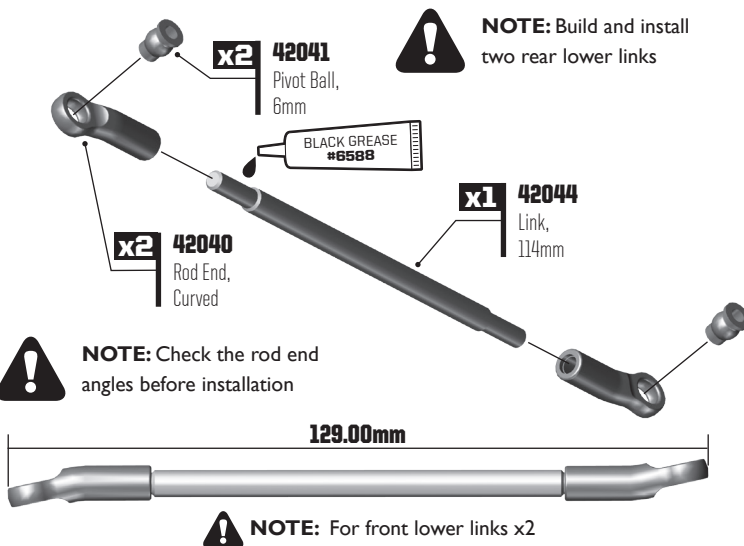
GATE 04 BAG 5 - LINKS BUILD



GATE 05 BAG 5 - LINKS BUILD

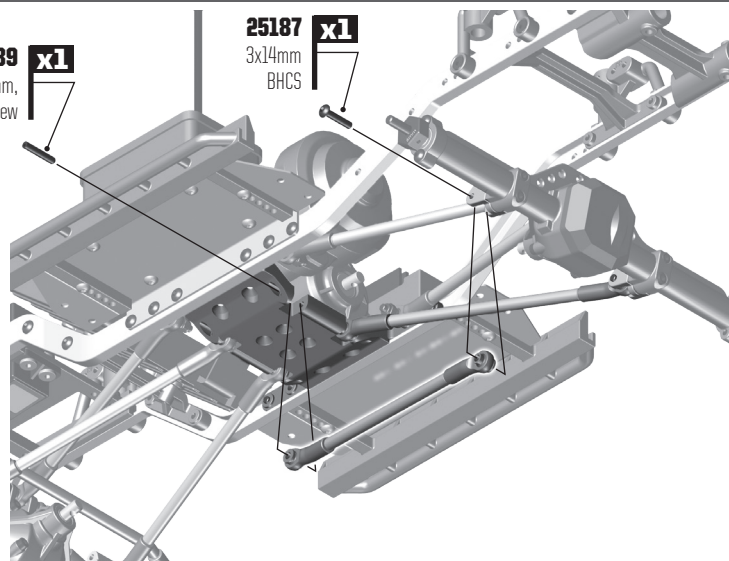
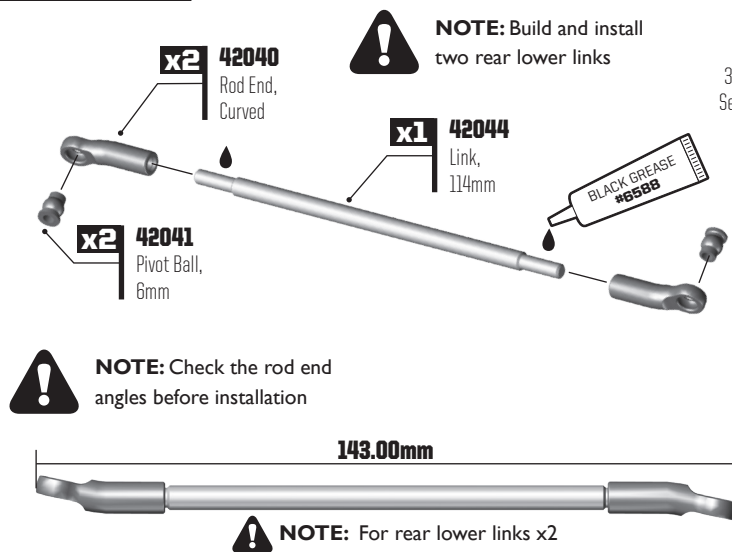


GATE 06 BAG 5 - LINKS BUILD



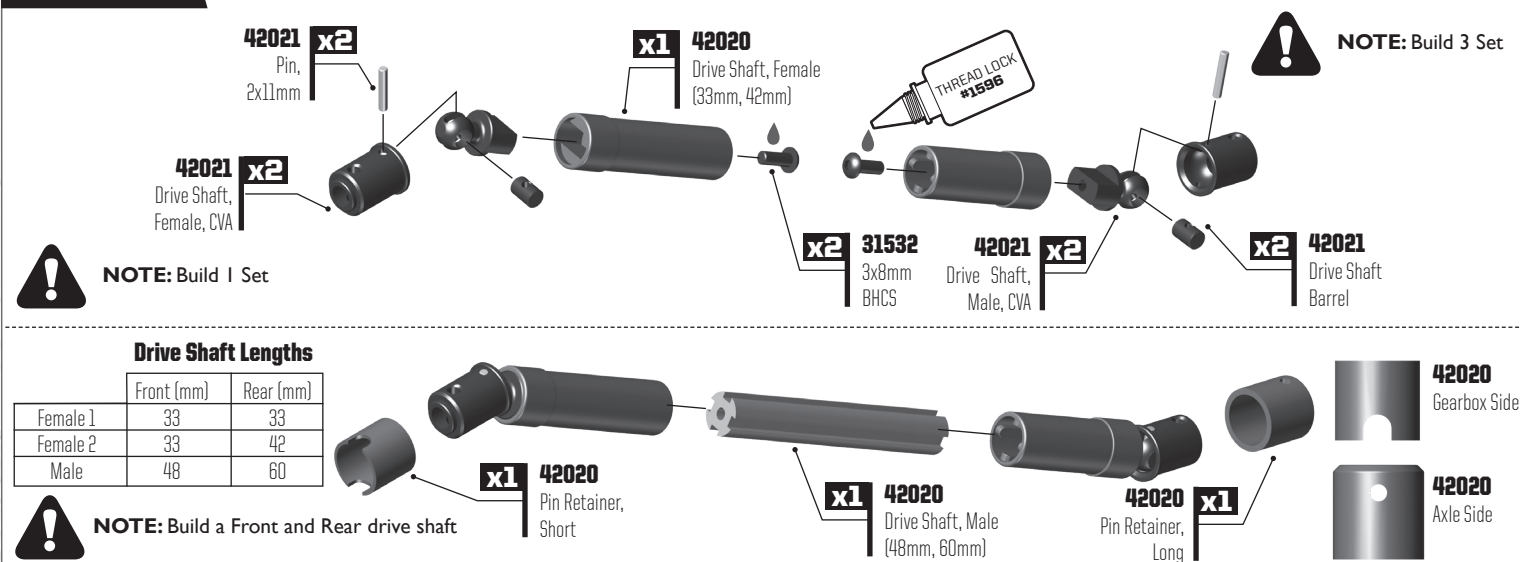
GATE 07

BAG 5 - LINKS BUILD



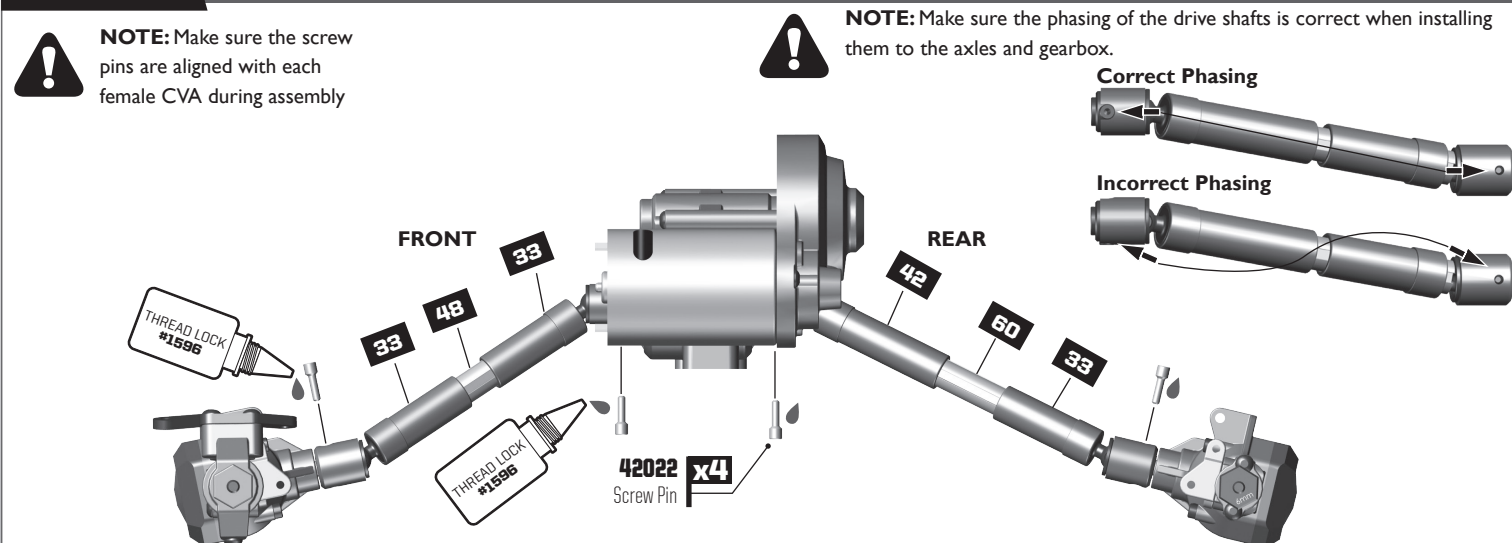
GATE 01

BAG 6 - DRIVE SHAFT BUILD

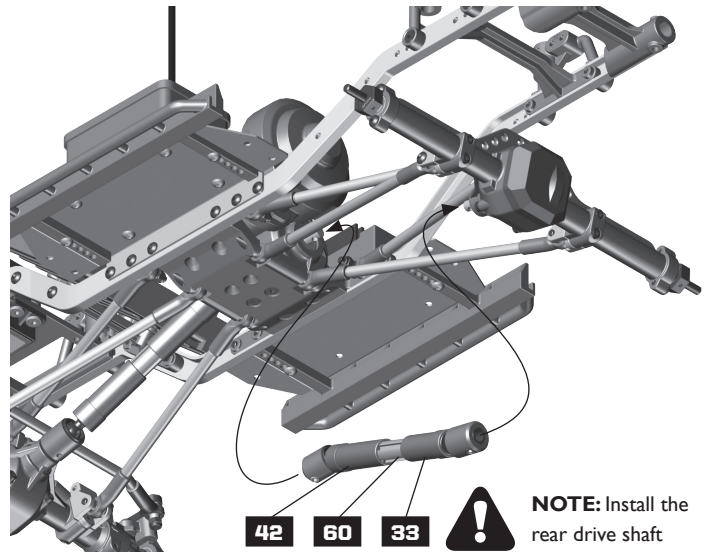
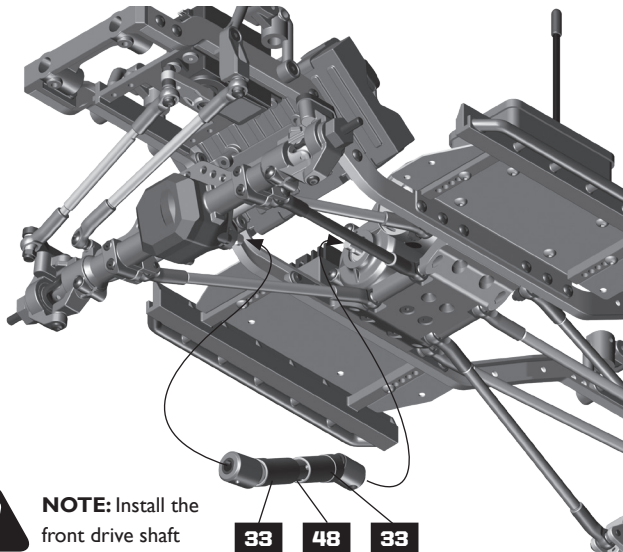


GATE 02

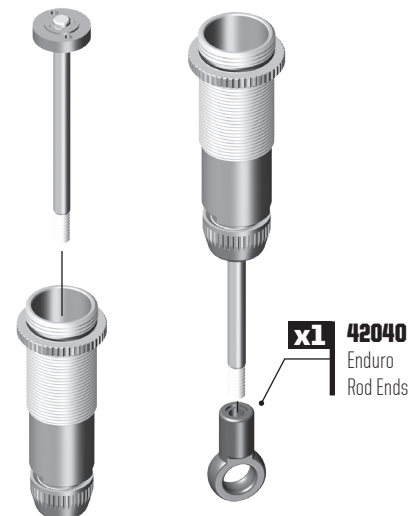
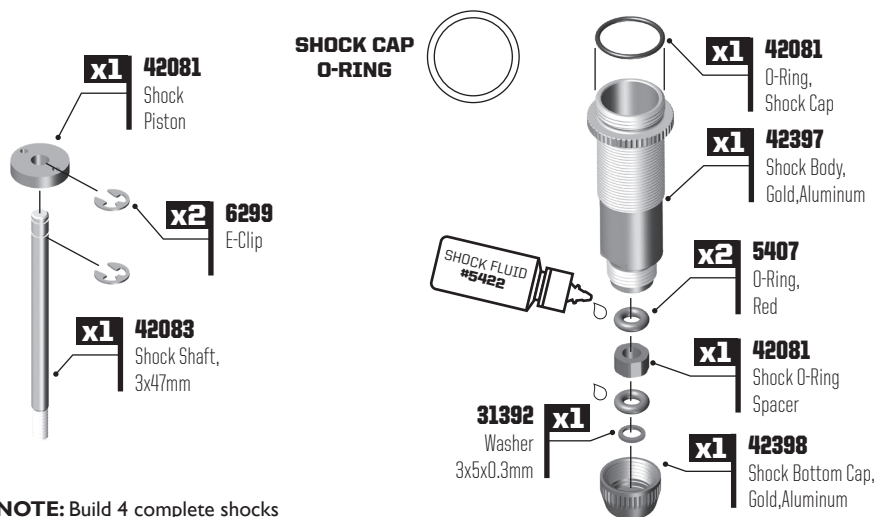
BAG 6 - DRIVE SHAFT BUILD



GATE 03 BAG 6 - DRIVE SHAFT BUILD

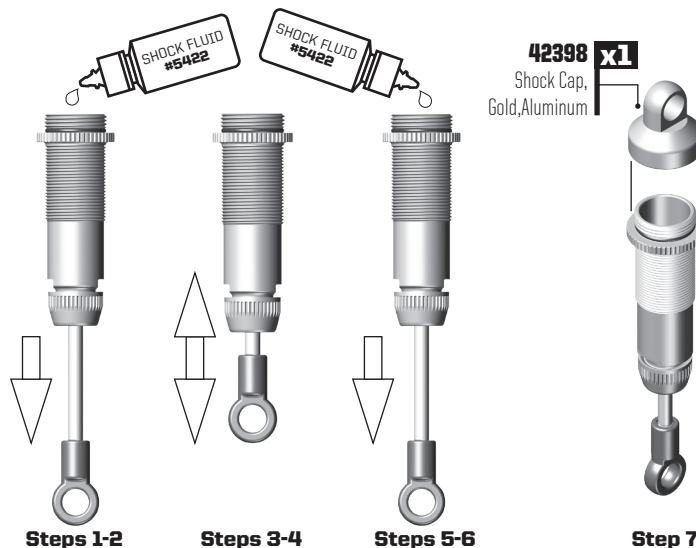


GATE 01 BAG 7 - SHOCK BUILD



NOTE: Build 4 complete shocks

GATE 02 BAG 7 - SHOCK BUILD



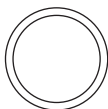
NOTE: Build 4 complete shocks

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.
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 thru 11.

GATE 03

BAG 7 - SHOCK BUILD

SHOCK COLLAR
O-RING

x1 42081
O-Ring,
Shock Collar

x1 42399
Shock Collar,
Gold, Aluminum



Pro Tip: Use your finger to rub shock fluid on the o-ring for smoother adjustment.

x1 42089
Front Shock Spring,
Gray, 1.49 lb/in, 63mm



NOTE: Build 4 complete shocks

11mm



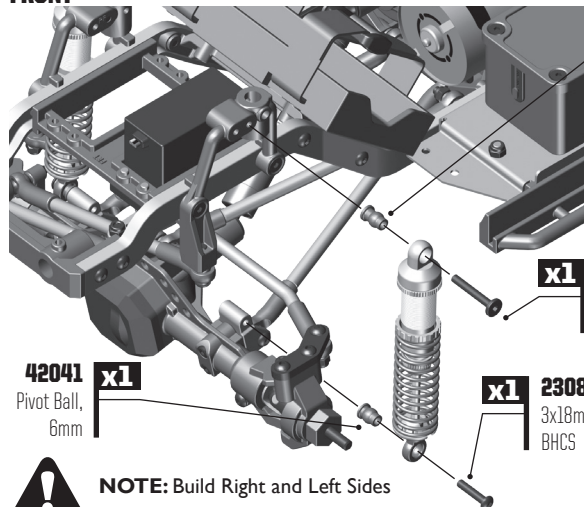
x1 42399
Shock Spring Cup,
Gold, Aluminum



GATE 04

BAG 7 - SHOCK BUILD

FRONT



x1 42041
Pivot Ball,
Upper Shock

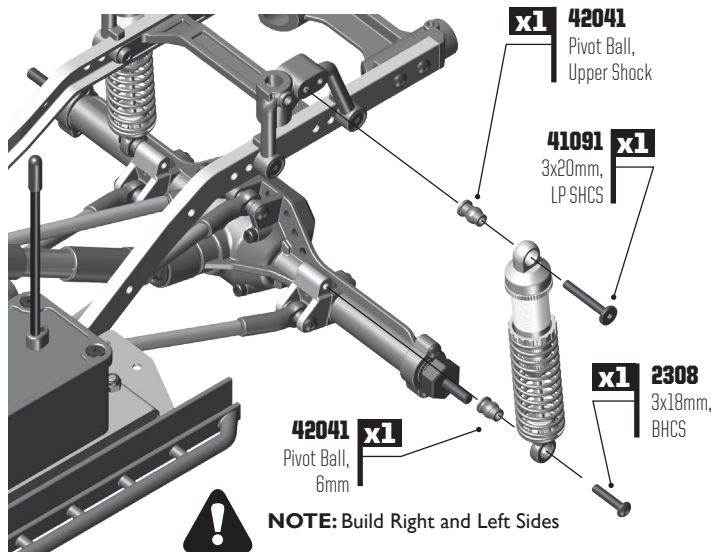
x1 41091
3x20mm,
LP SHCS

x1 2308
3x18mm,
BHCS

x1 42041
Pivot Ball,
6mm

NOTE: Build Right and Left Sides

REAR



x1 42041
Pivot Ball,
Upper Shock

x1 41091
3x20mm,
LP SHCS

x1 2308
3x18mm,
BHCS

x1 42041
Pivot Ball,
6mm

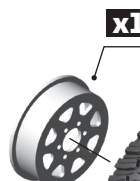
NOTE: Build Right and Left Sides

GATE 01

BAG 8 - WHEELS & TIRES



NOTE: Install #41088 screws in a crossing pattern



x1 42101
Method Trail
Inner Wheel, Black

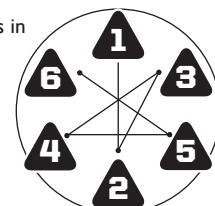
x1 42106
Tire, General
Grabber X3

x1 42106
Tire, Insert

x1 42101
Method 701 Trail
Ring, Black

x1 42101
The Ocho
Hex Adapter, Black

x1 42101
Method 701 Trail
Wheel, Black



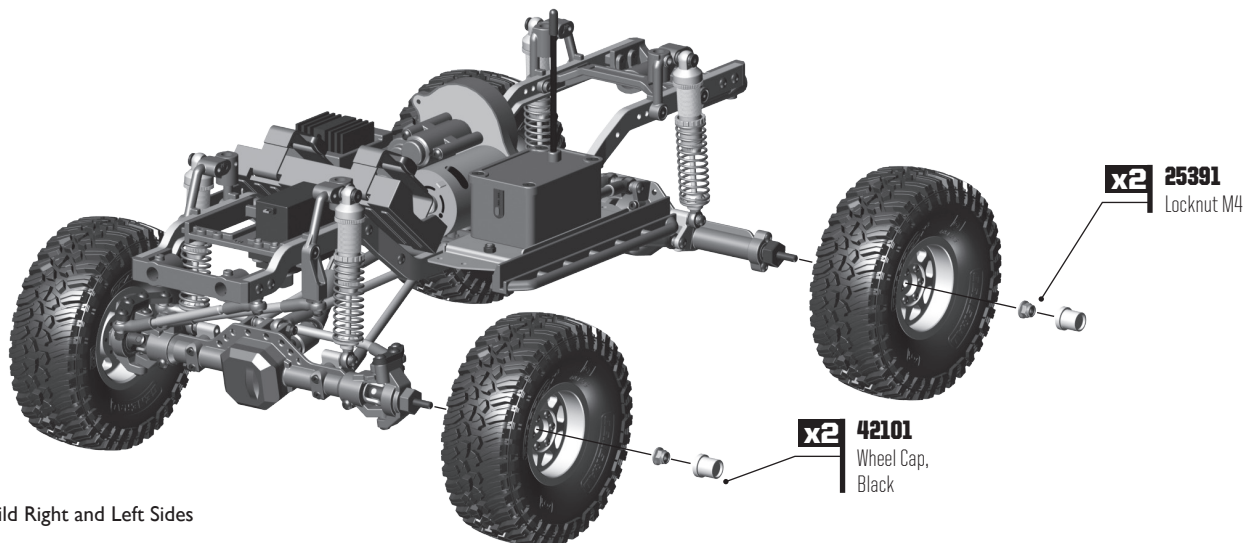
x6 41088
2.6x10mm,
BHCS, Tapping

NOTE: Build 4 Sets

Wheels - 1.9"

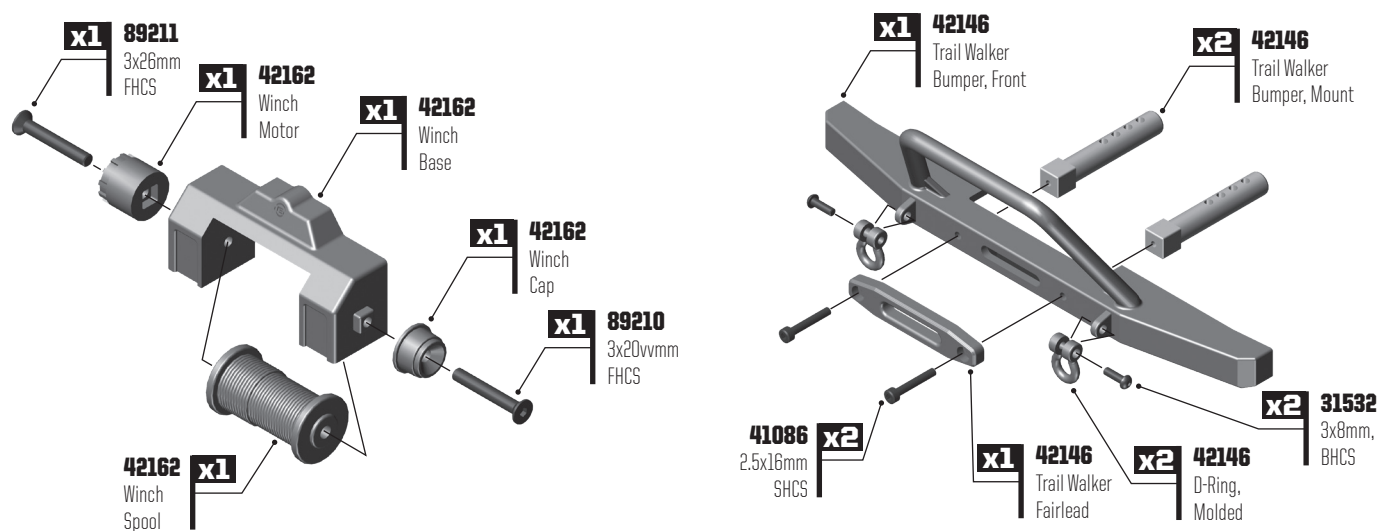
| |
|-----------------------------|
| #42100 - Method 701, Bronze |
| #42101 - Method 701, Black |
| #42108 - The Ocho, Silver |
| #42109 - The Ocho, Black |
| #42177 - The Ocho, Bronze |
| #42328 - Steelie, Black |

GATE 02 BAG 8 - WHEELS & TIRES

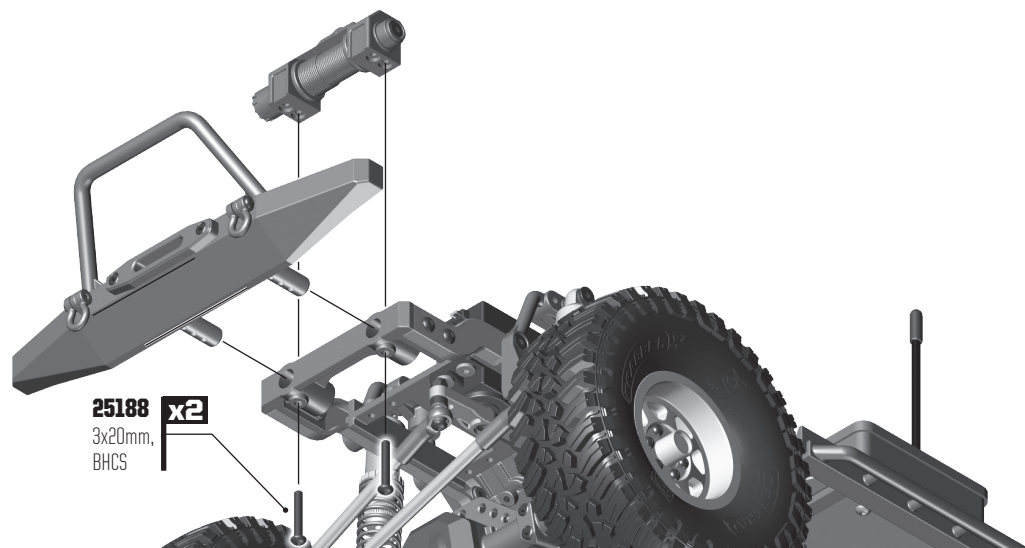
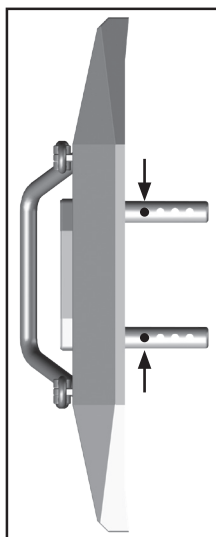


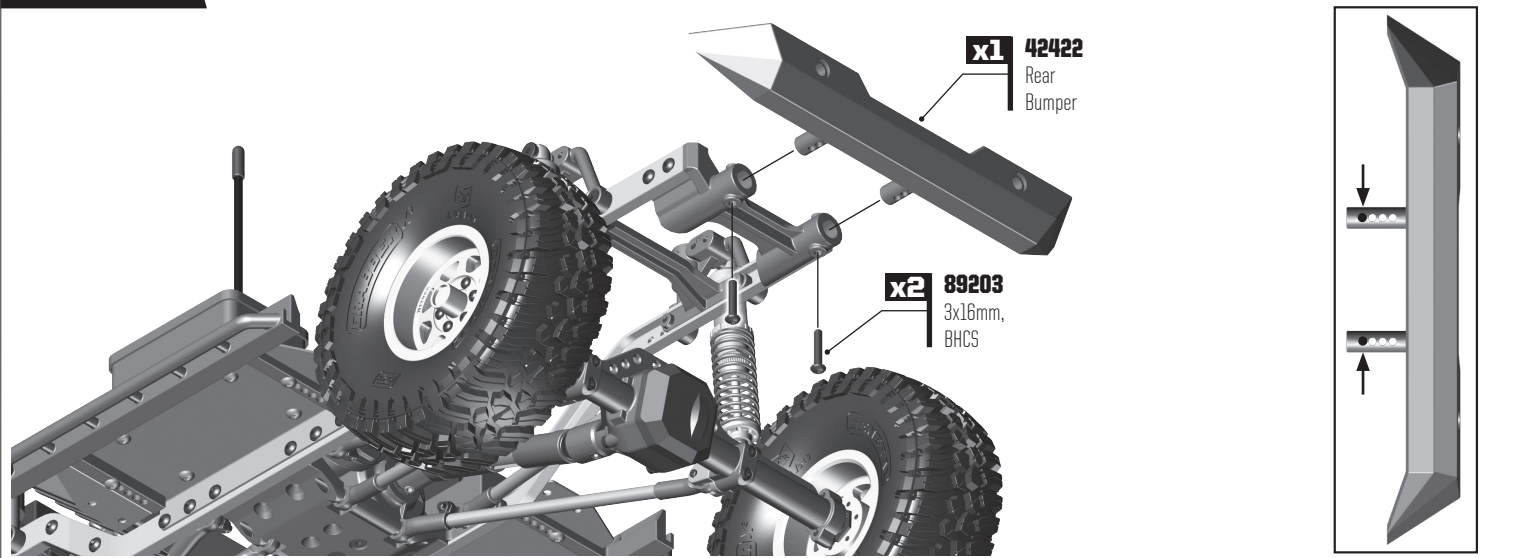
NOTE: Build Right and Left Sides

GATE 01 BAG 9 - FRONT BUMPER BUILD



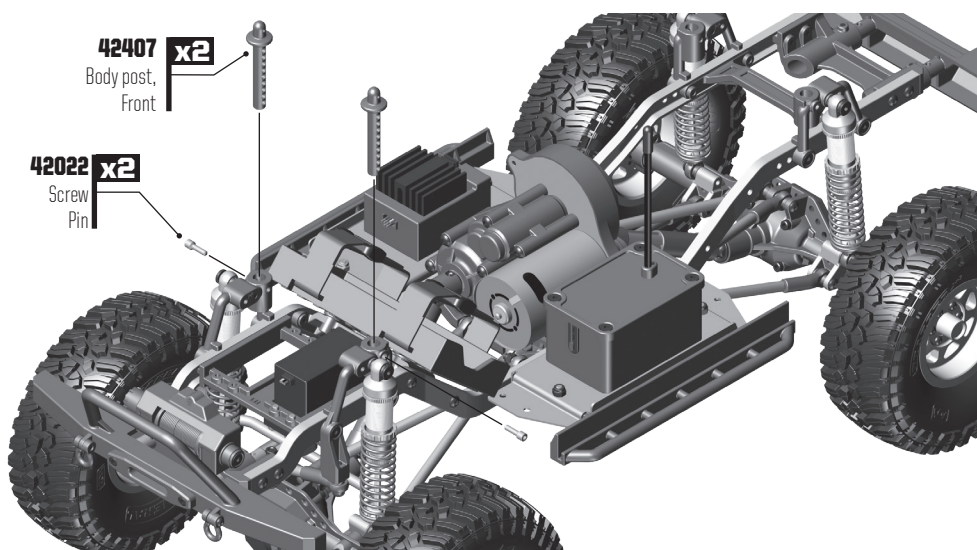
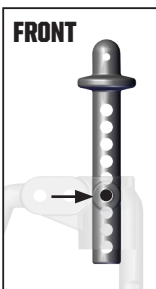
GATE 02 BAG 9 - FRONT BUMPER BUILD



GATE 03**BAG 9 - REAR BUMPER BUILD****GATE 01****BAG 10 - BODY POST BUILD**

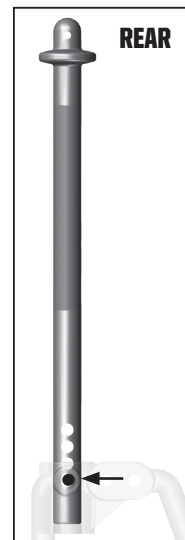
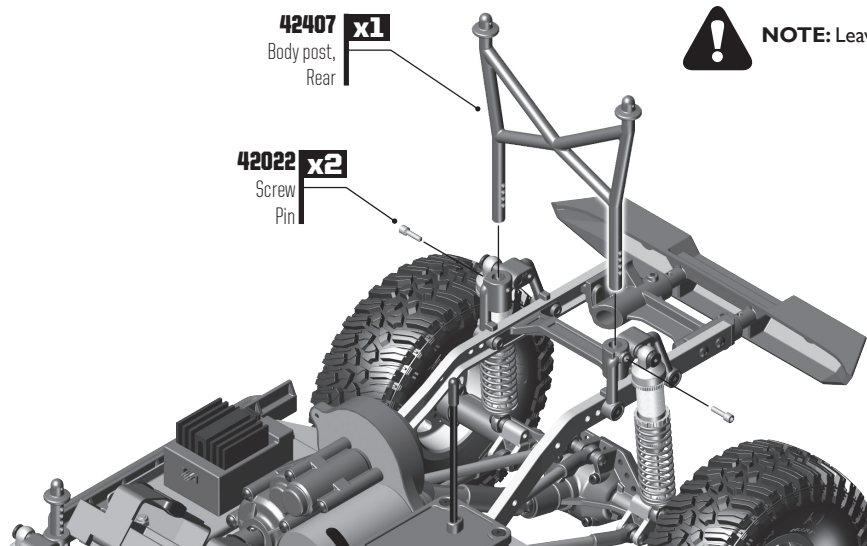
NOTE: Leave 5 holes Front,

FRONT

**GATE 02****BAG 10 - BODY POST BUILD**

NOTE: Leave 3 holes Rear

REAR



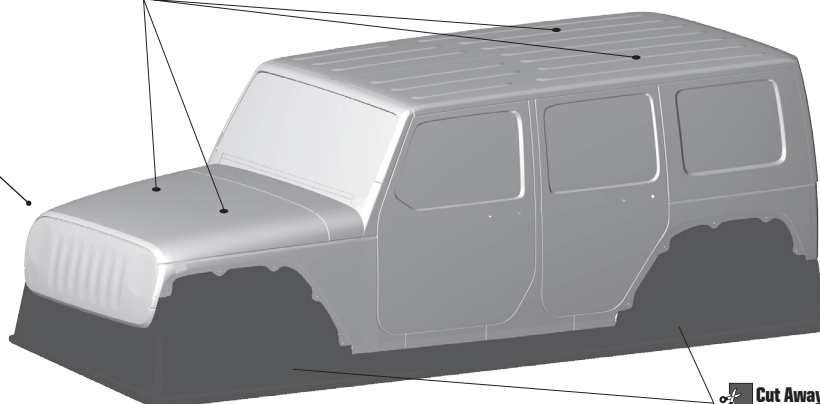
GATE 01**BODY & DECAL**

42421
Cattleman Body, Clear **x1**

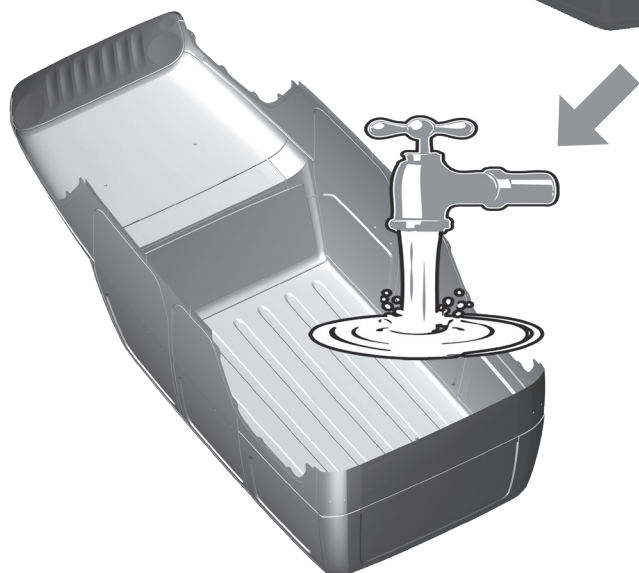
Drill hole 6mm x4



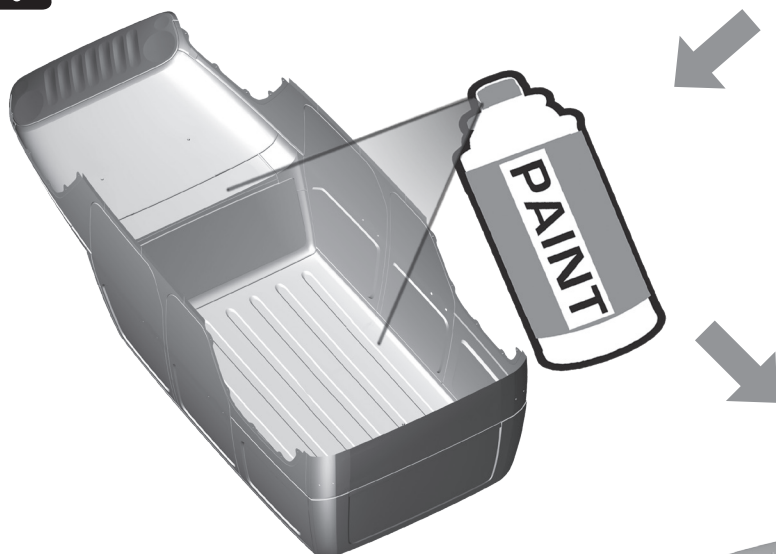
NOTE: Trim the deep gray portion



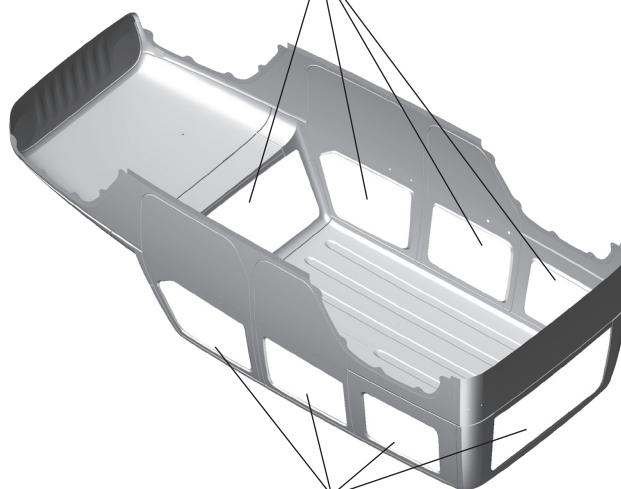
Cut Away



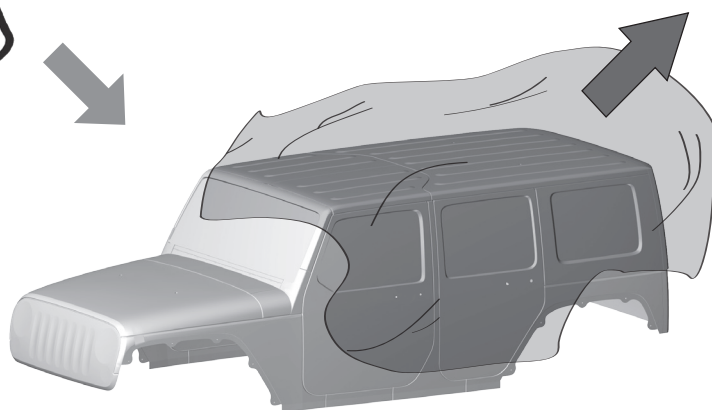
NOTE: Wash the body and dry it



42421
Window Mask



Window Mask



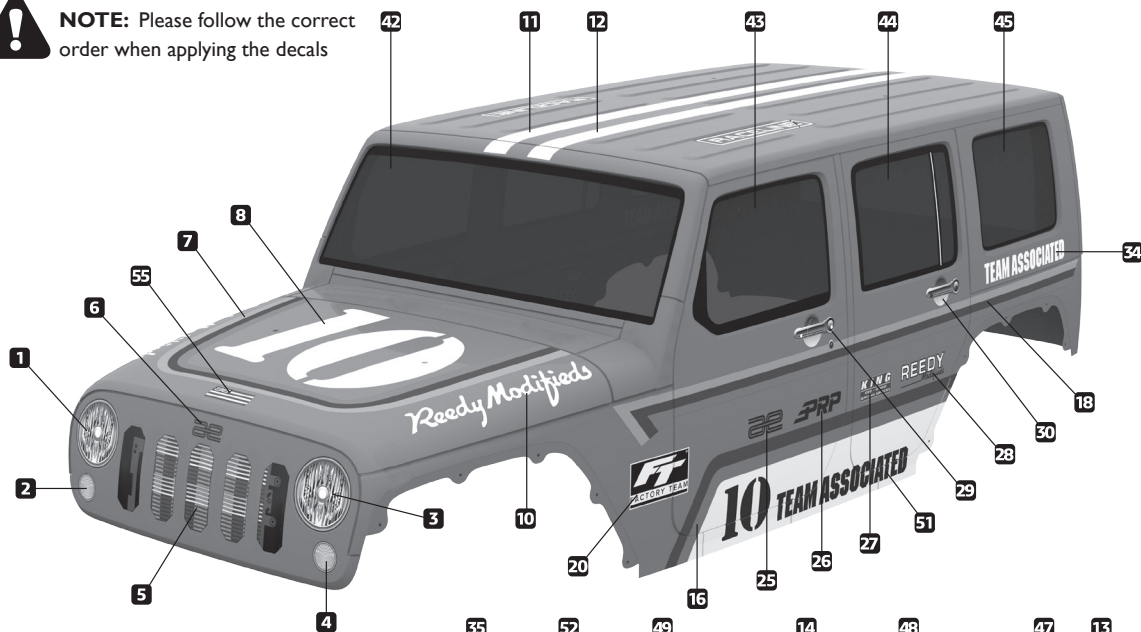
NOTE: Remove protective film before applying decals.

GATE 02

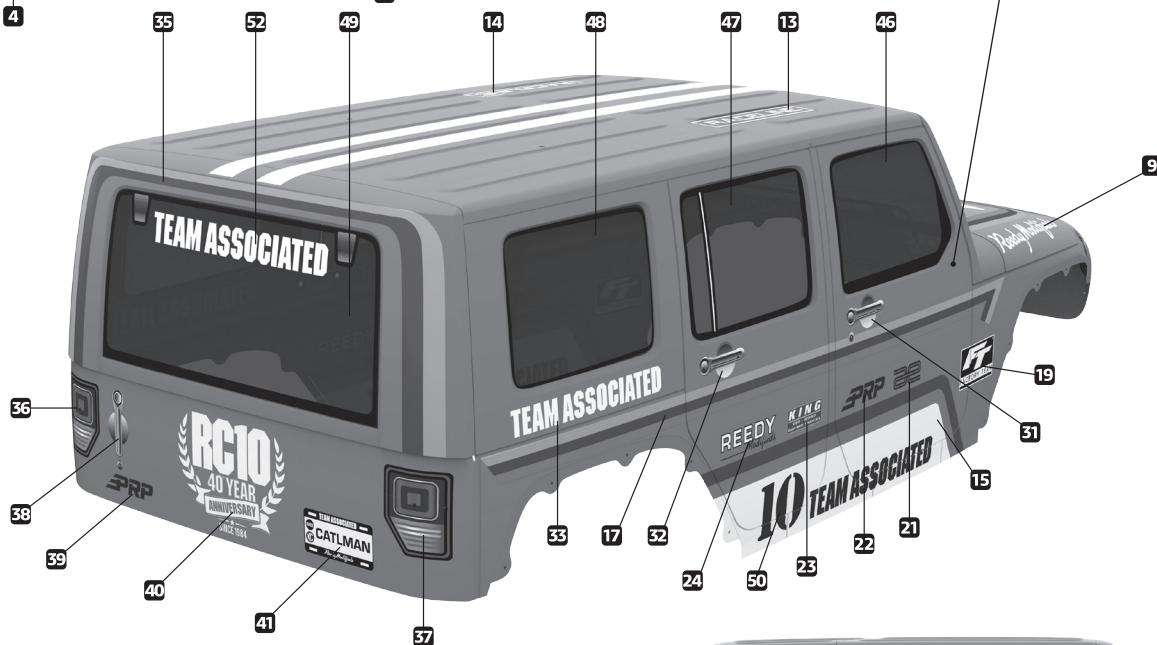
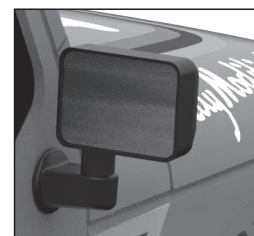
BODY & DECAL



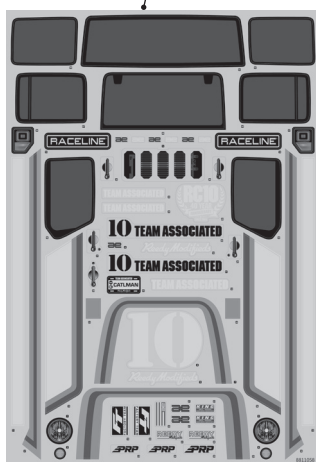
NOTE: Please follow the correct order when applying the decals



NOTE: After assembling the mirror parts, apply decals No.53 and No.54.

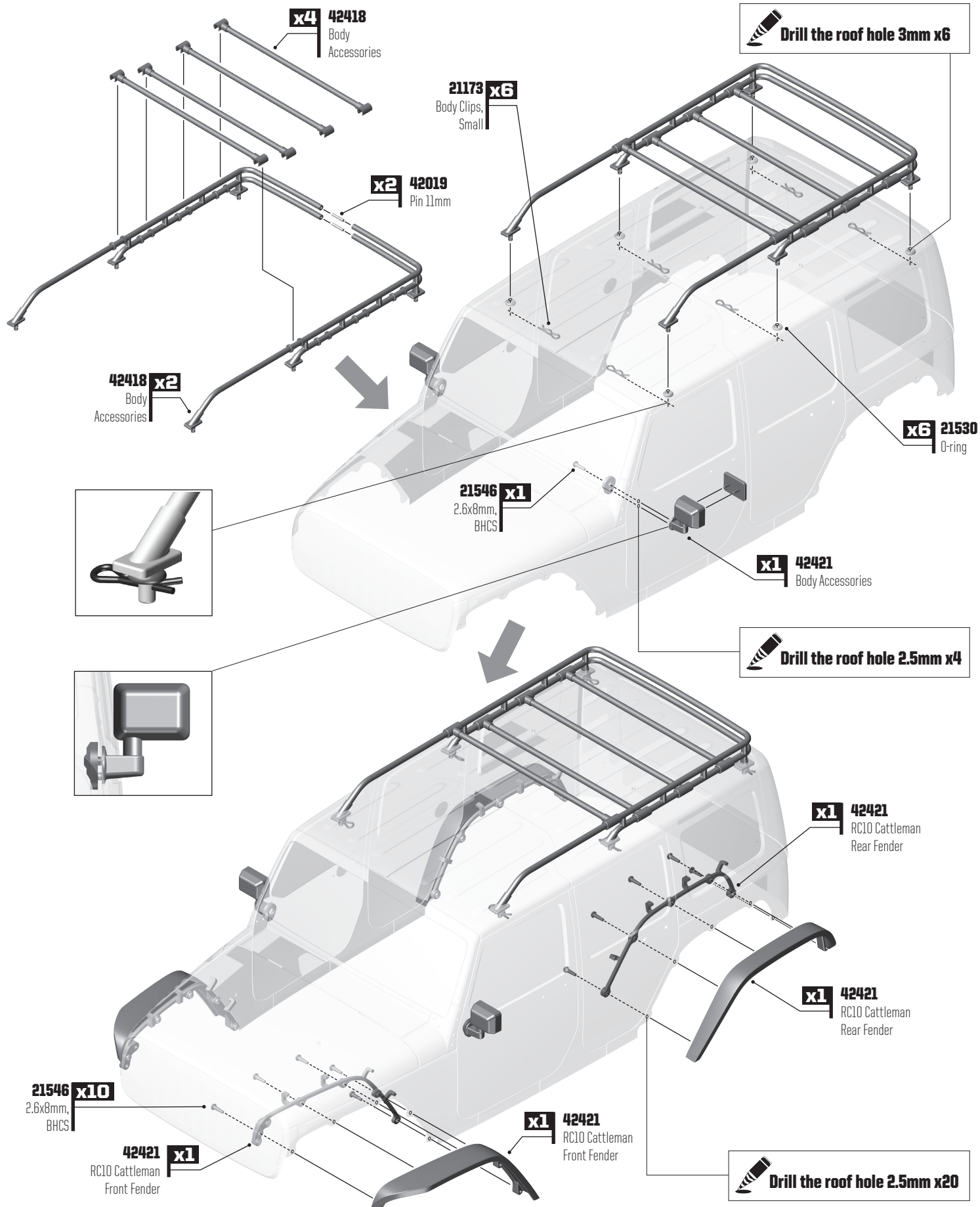


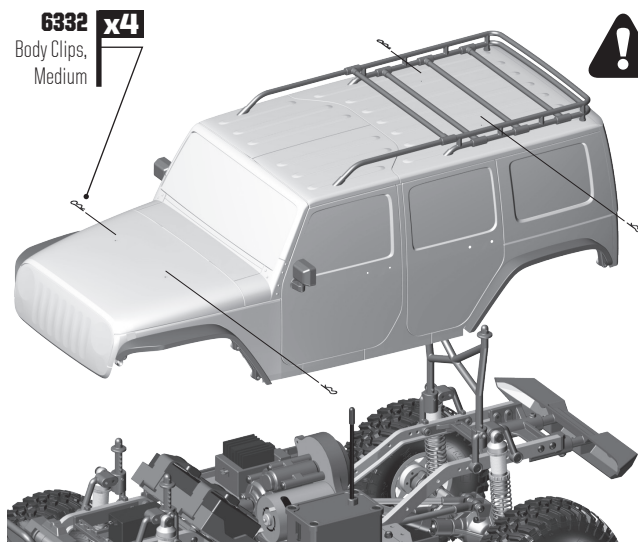
x1 42421
Body Decal



GATE 01

BAG 9 - BODY ACCESSORIES



GATE 01**STEALTH X: BUILD CONFIGURATION: MOTOR MOUNT FACING REAR (STOCK)****OVERDRIVE:**

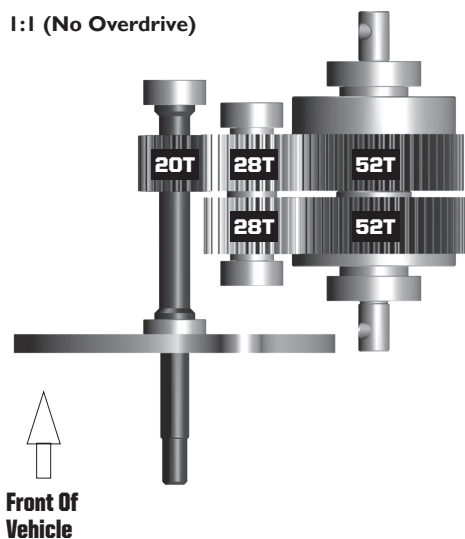
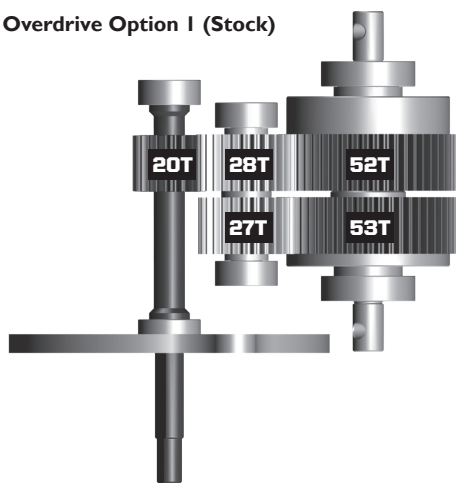
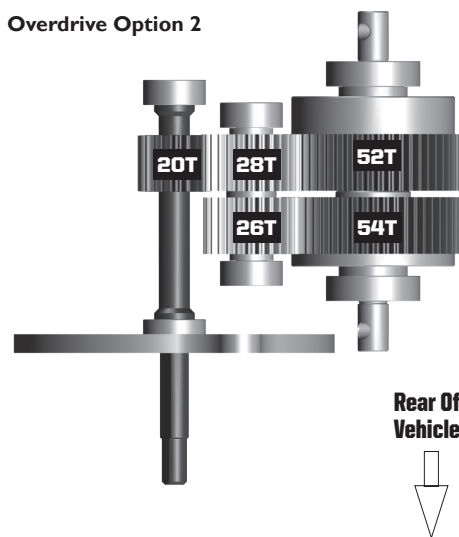
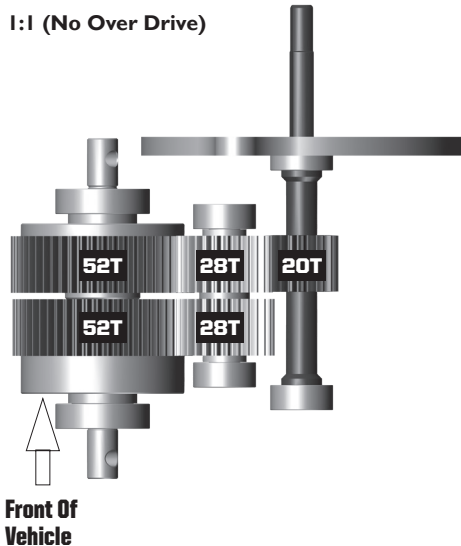
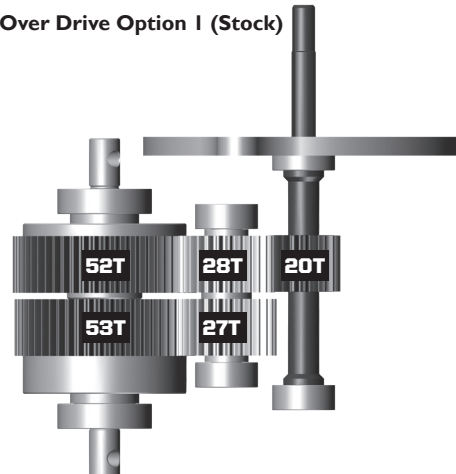
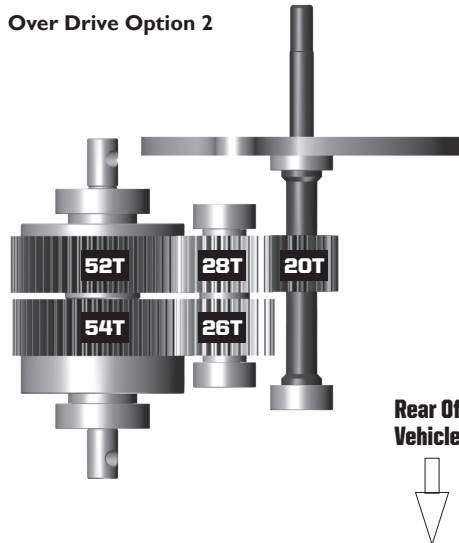
Overdrive is a scenario where the front and rear wheels do not rotate at the same speed. The Stealth X gearbox is designed to allow the front wheels to spin faster than the rear wheels. Overdrive is advantageous when climbing up rock faces because the front tires will want to pull the vehicle up the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

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:

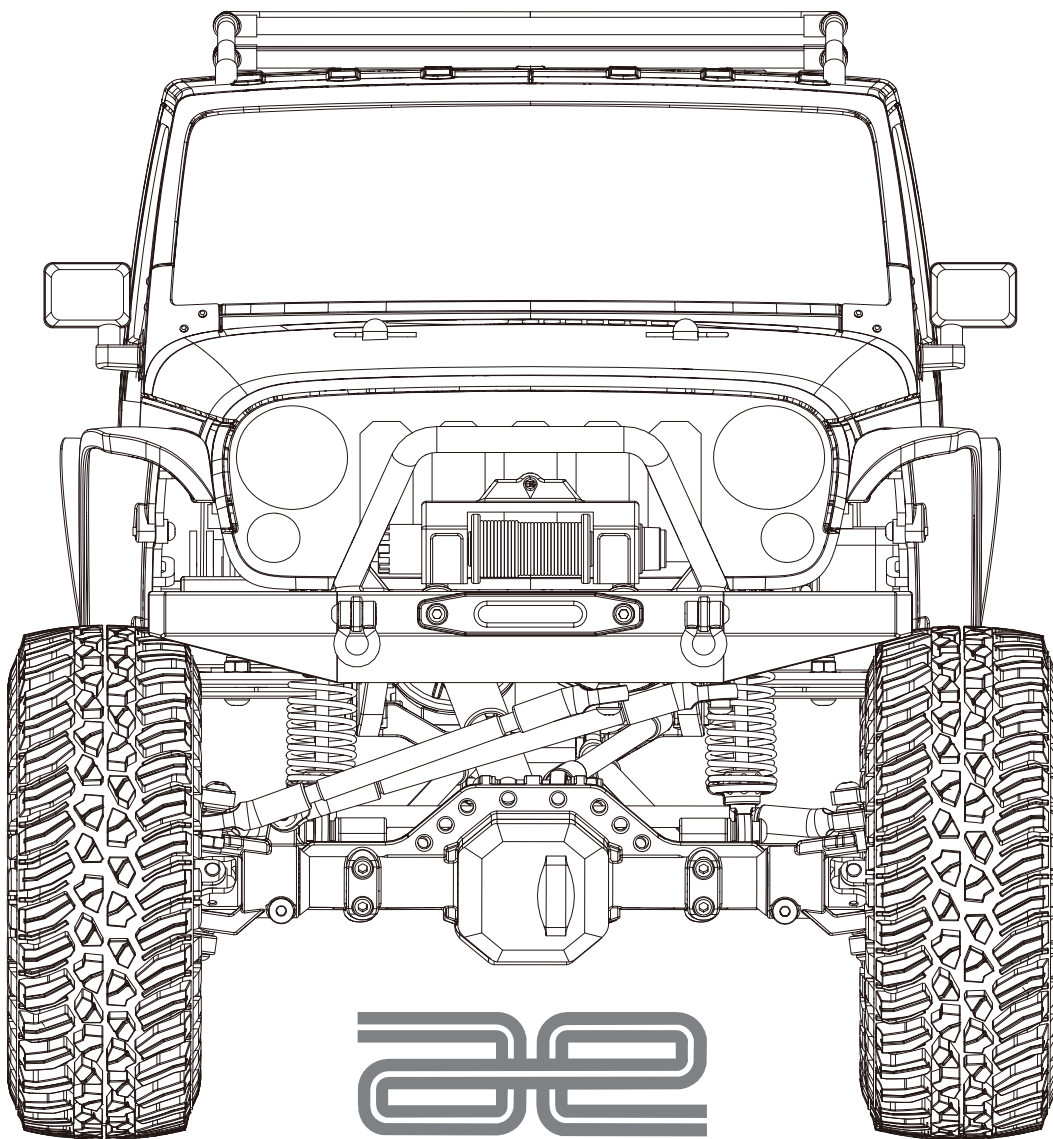
If you're sharing an area with other people, try to keep the noise to a minimum. If you come across animals or anglers, please be considerate and give them space.

• 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.



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