

#### KIT FEATURES

Your Exotek F1ULTRA R5 is a cutting edge high-performance racing kit that features:

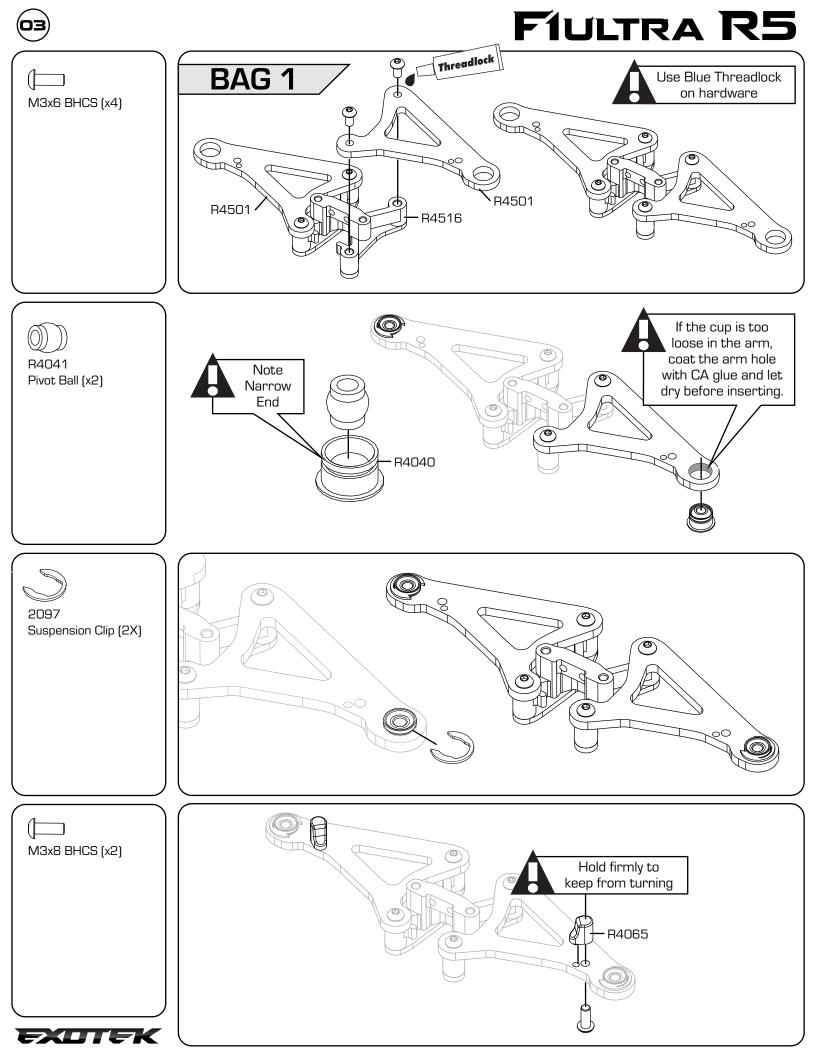
- 2.4mm lightweight 1-piece chassis for superior asphalt characteristics.
- Patented floating pod rear suspension system for superior forward and side traction.
- No center rear pod ball pivot means much improved chassis roll for unmatched corner speeds.
- Adjustable camber and caster via turnbuckles for easy and exact set up with no clumsy inserts.
- 3 oil filled shocks with all machined bodies and internals for velvety smooth operation and proper sealing.
- Lightweight chassis-mounted rear wing mount system included for improved rear grip.
- 1-piece 7075 alloy rear pod plate improved durability, adds rear traction and improves motor cooling.
- High performance ball diff set with 1/4" carbon fiber axle and extra heavy duty oversized axle bearings.
- Simplified direct steering-to-servo design for reduced play, reduced parts count and precise steering feel.
- Heavy duty precision alloy front bulkhead comes standard for tweak-free running and easy roll center changes.
- New heavy duty 1-piece extra long side links provides reduced rear bump steer typical of shorter side links.
- Double sprung top shock for improved forward bite with rubber tires on asphalt.
- Super narrow main chassis for improved cornering due to less chassis scrubbing.
- Short and long wheelbase settings for large and small tracks.
- 4 position battery tray allows positioning the battery forward or back for more front or rear weight bias.
- Heavy duty steel rear axle and ball diff a must have for added rear grip and durability.
- Integrated 30mm fan mount on the left pod.
- New motor mount with upper and lower motor attachment for less motor flexing.
- New easy grip/ easy removal custom e-clips on the front suspension pins.
- New 1 piece front suspension pins for less play.
- New direct servo horn and alloy servo mounts.
- New wider and lighter rear pod set for extra motor sensor wire clearance.
- New 1-piece nylon lightweight side links.
- New extra stiff alloy caster posts.
- New tighter fit front axle.
- New double bolt front wing mount.
- New lightweight 1-piece carbon chassis.
- New pinned side link mounts.

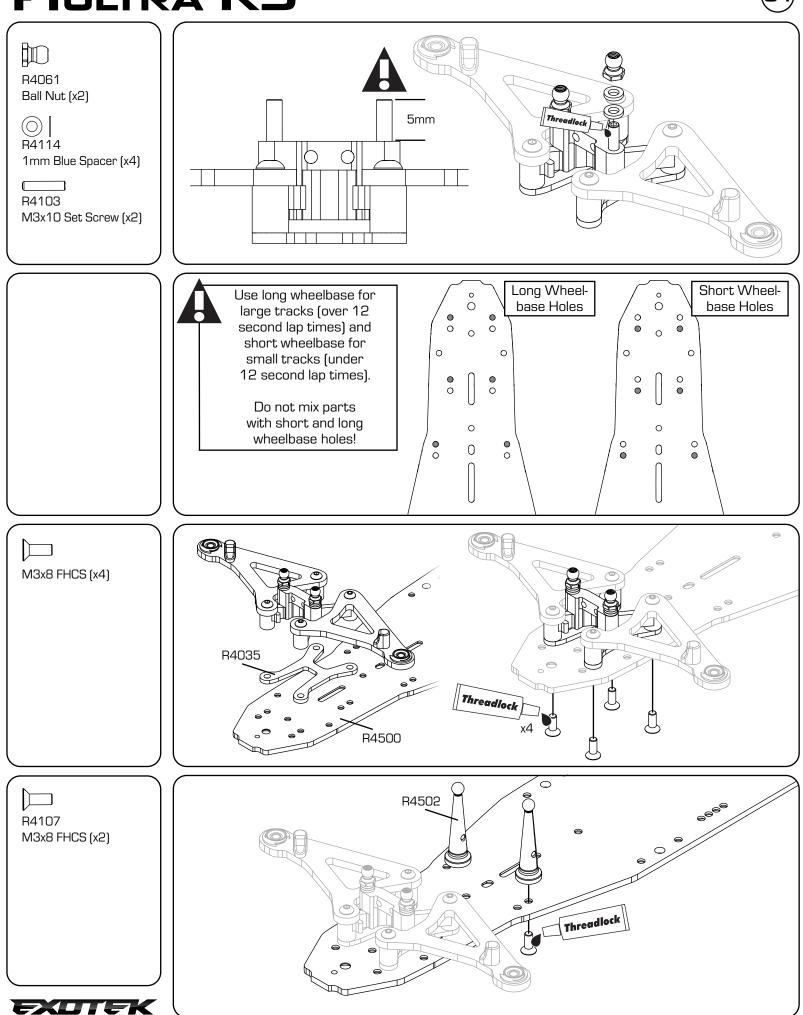
### REQUIRED TO COMPLETE

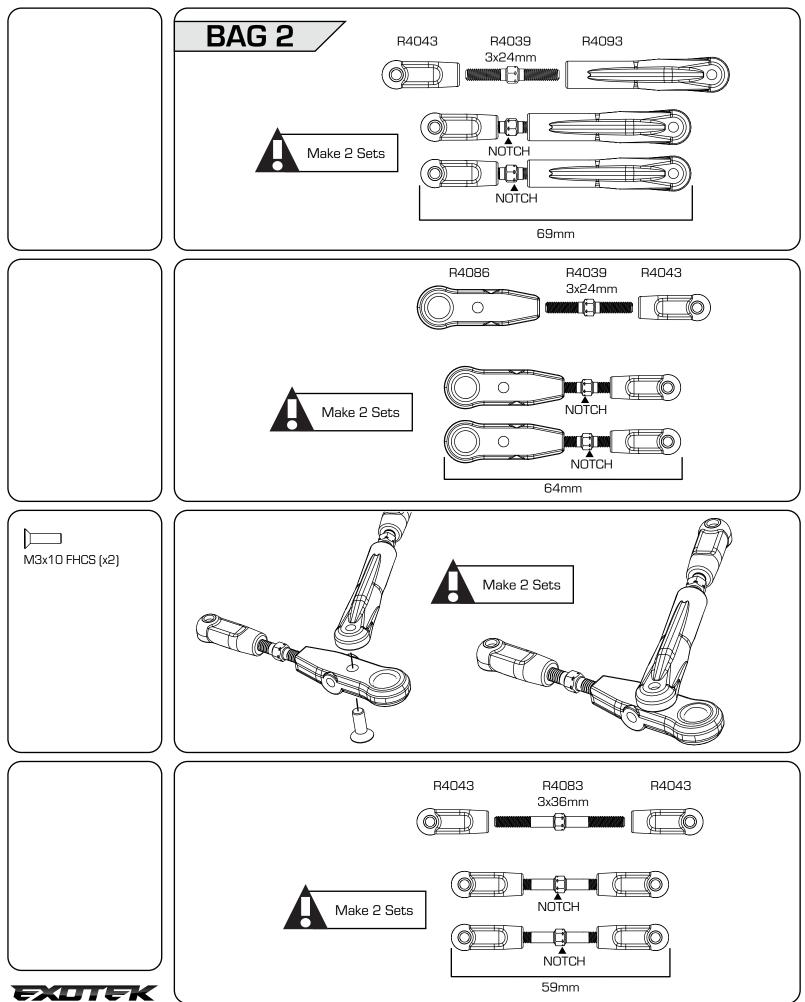
- 1:10 Scale Electric Motor
- Electronic Speed Control
- Steering Servo
- 3.7v-7.4v LiPo or 6.0v LiFe "Shorty" Battery
- Battery Charger
- 2-Channel Surface Radio System
- 1:10 Scale F1 Wheels and Rubber (or Foam) Tires
- 1:10 Scale Polycarbonate F1 Body
- Polycarbonate-Specific Spray Paint for Body
- Servo Tape (3M brand is best)

#### REQUIRED TOOLS

- High grade machined hex wrenches 1.5, 2.0
- Nut wrench- 5.5, 7.0
- 4mm turnbuckle wrench
- Hobby knife
- Calipers or a precision ruler
- Silicone glue (goop)
- Body scissors
- Reamer/hole punch
- Long-style ride height gauge
- Needle nose pliers

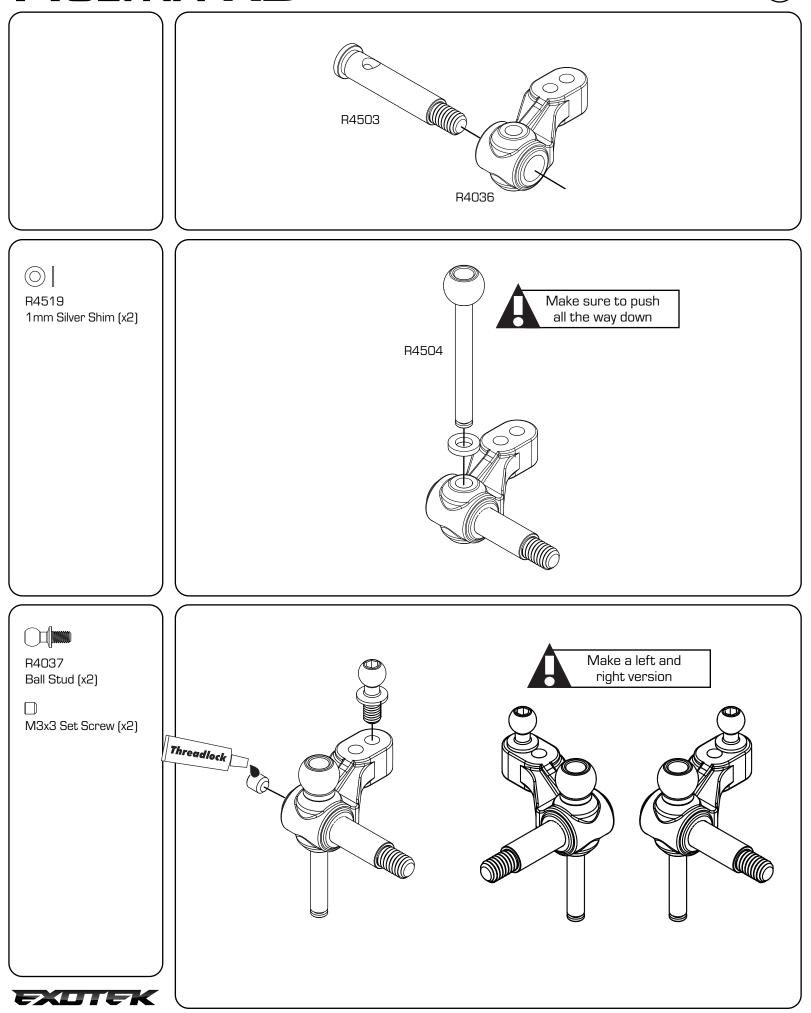


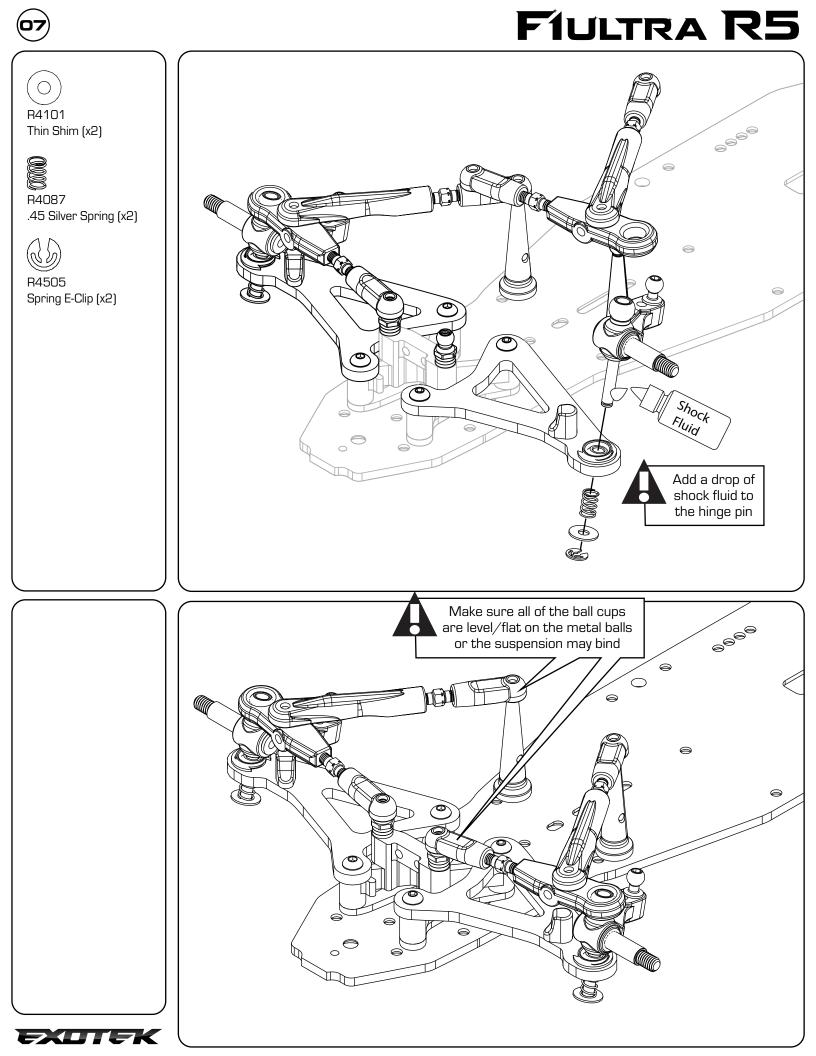


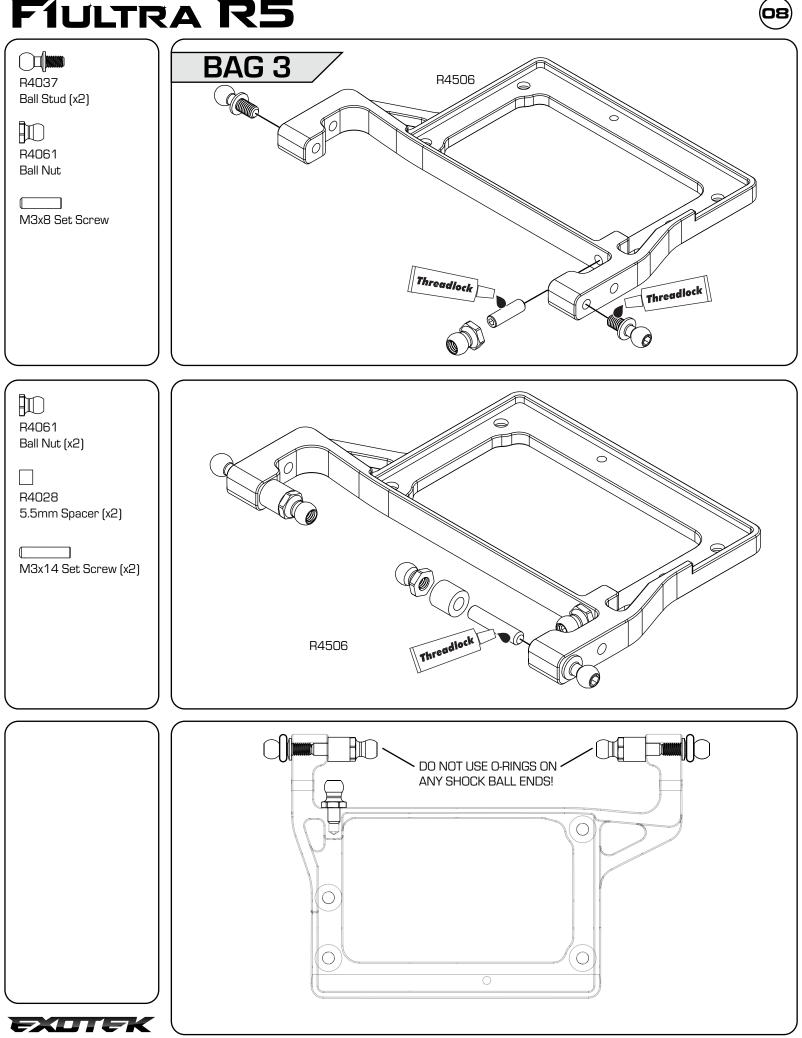


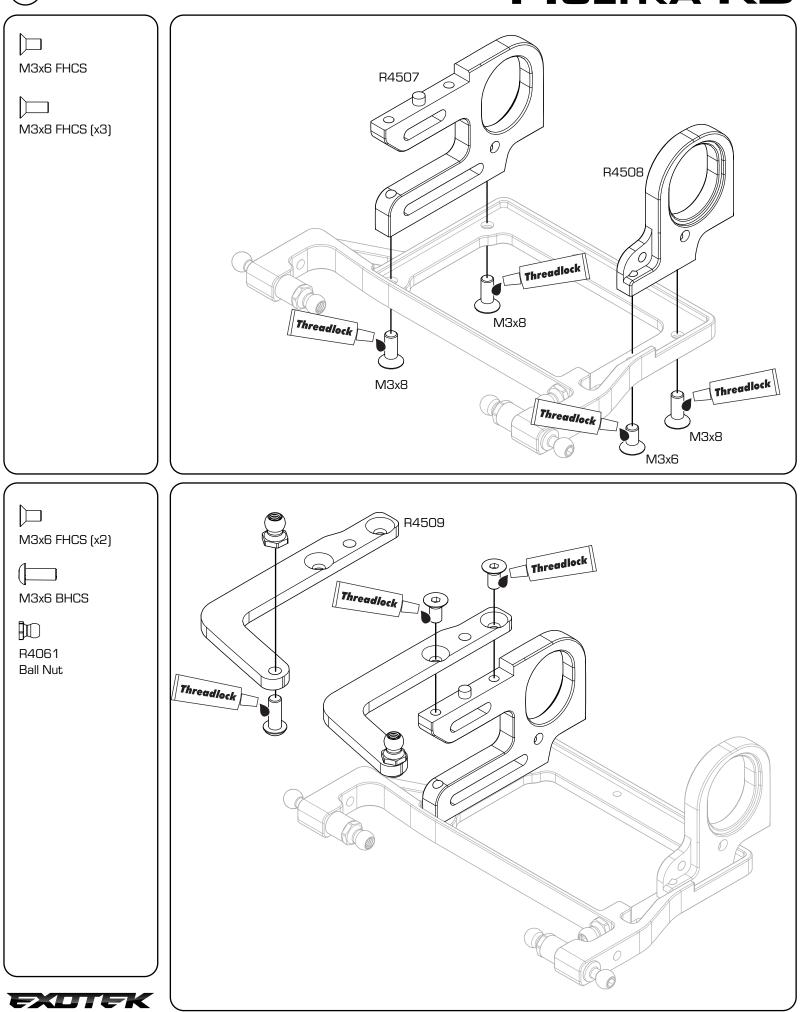
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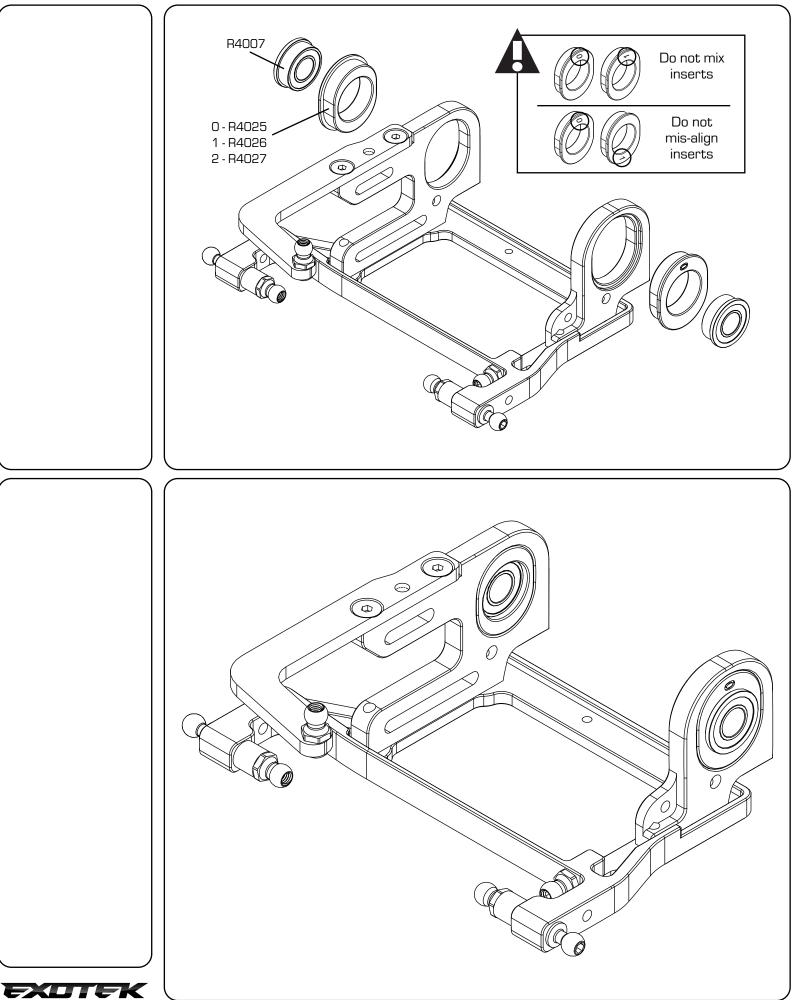


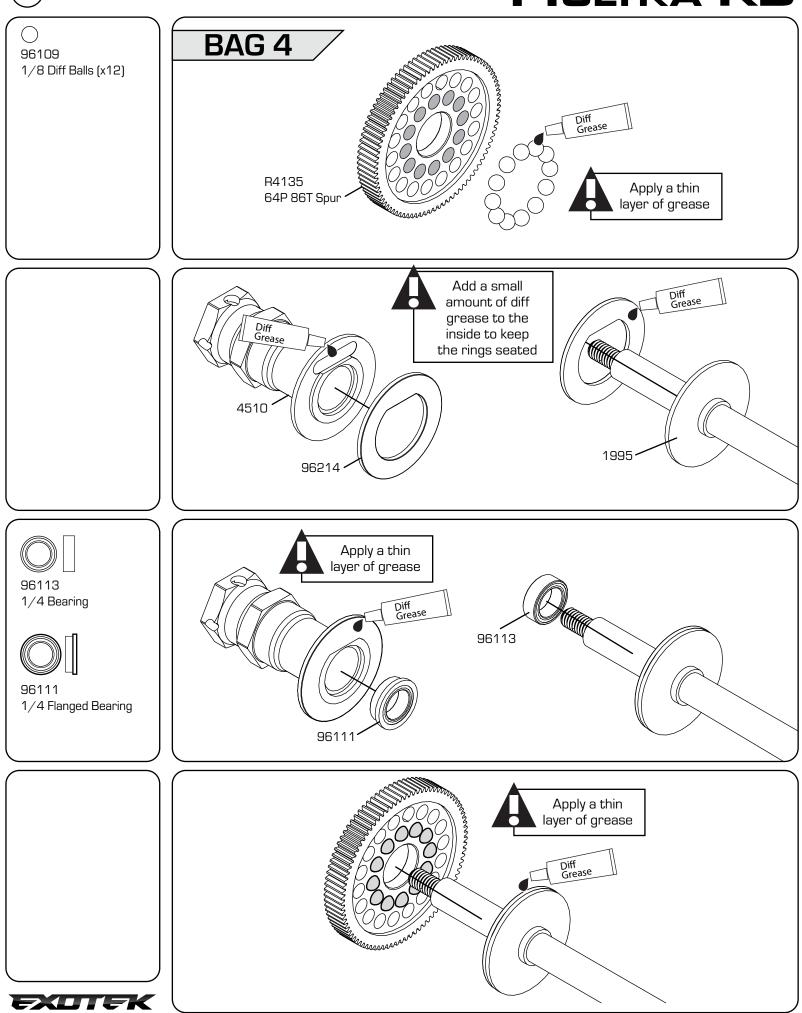


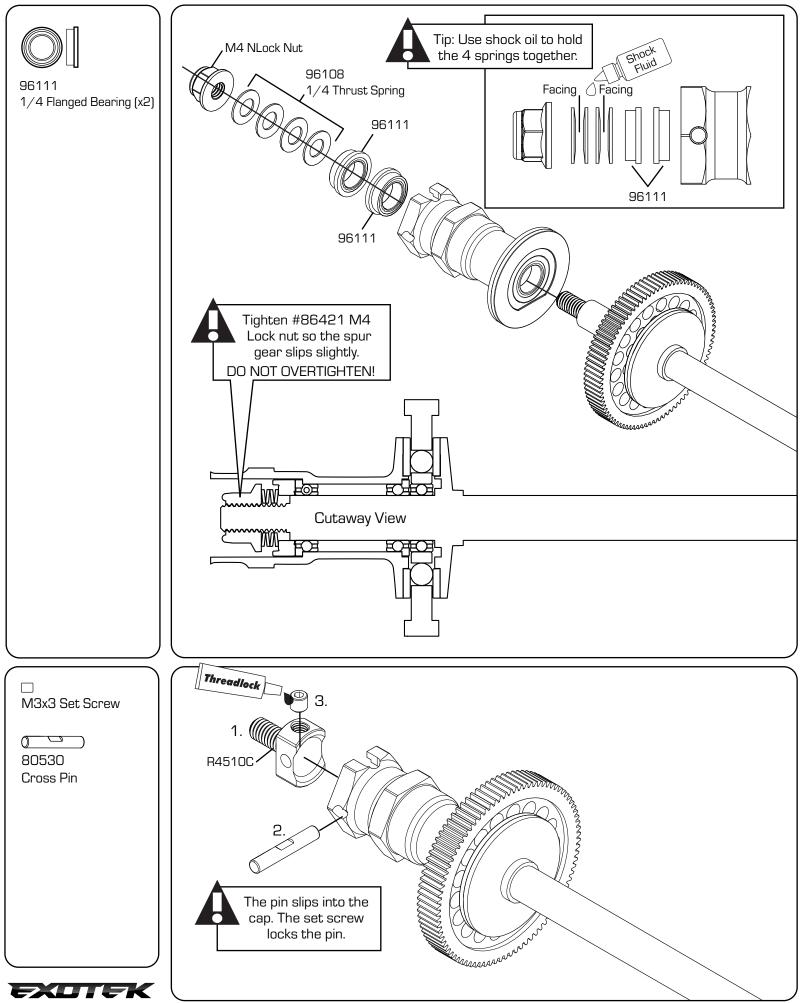


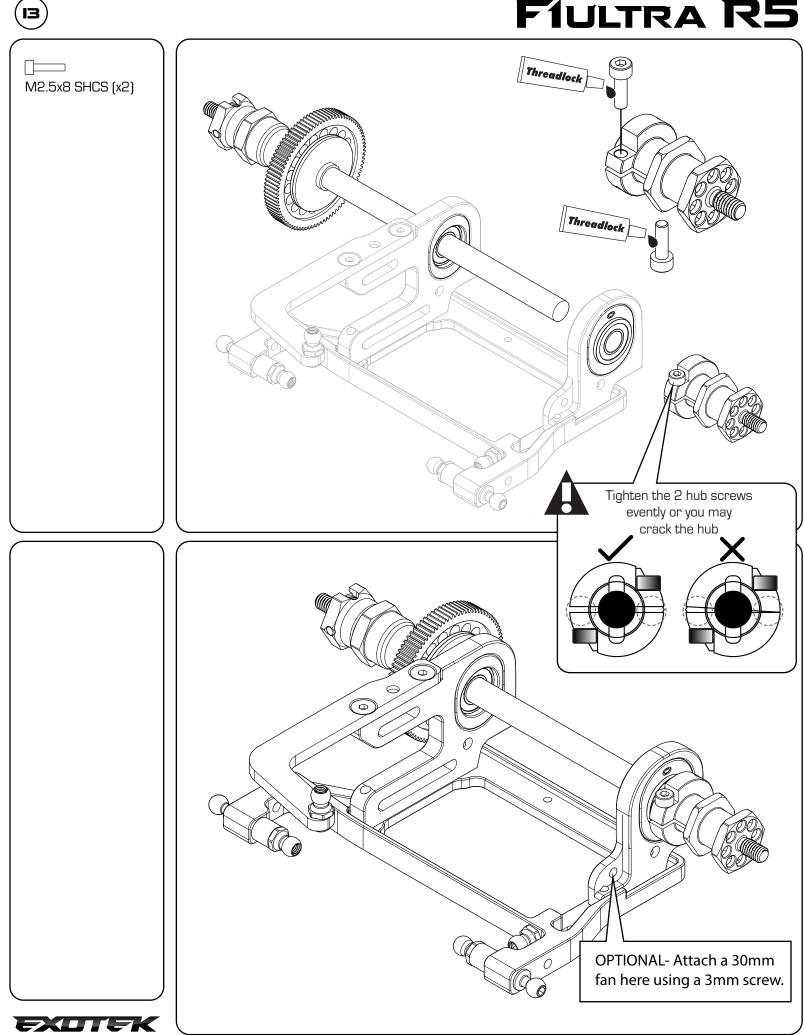


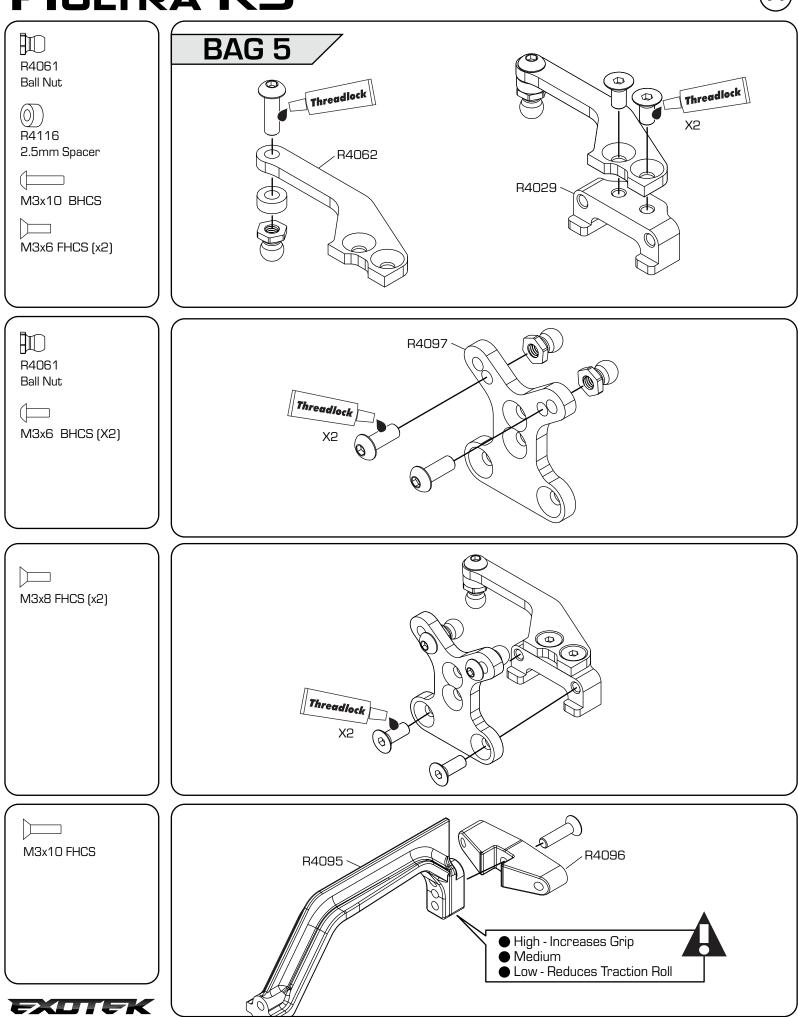
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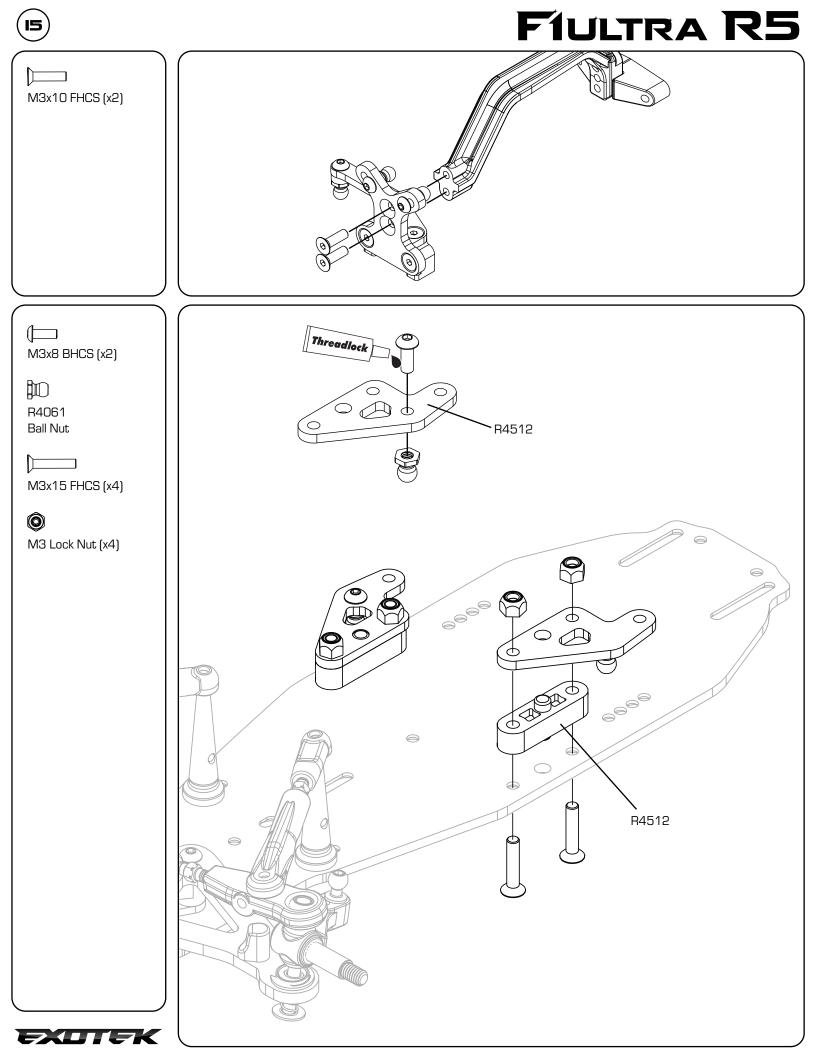


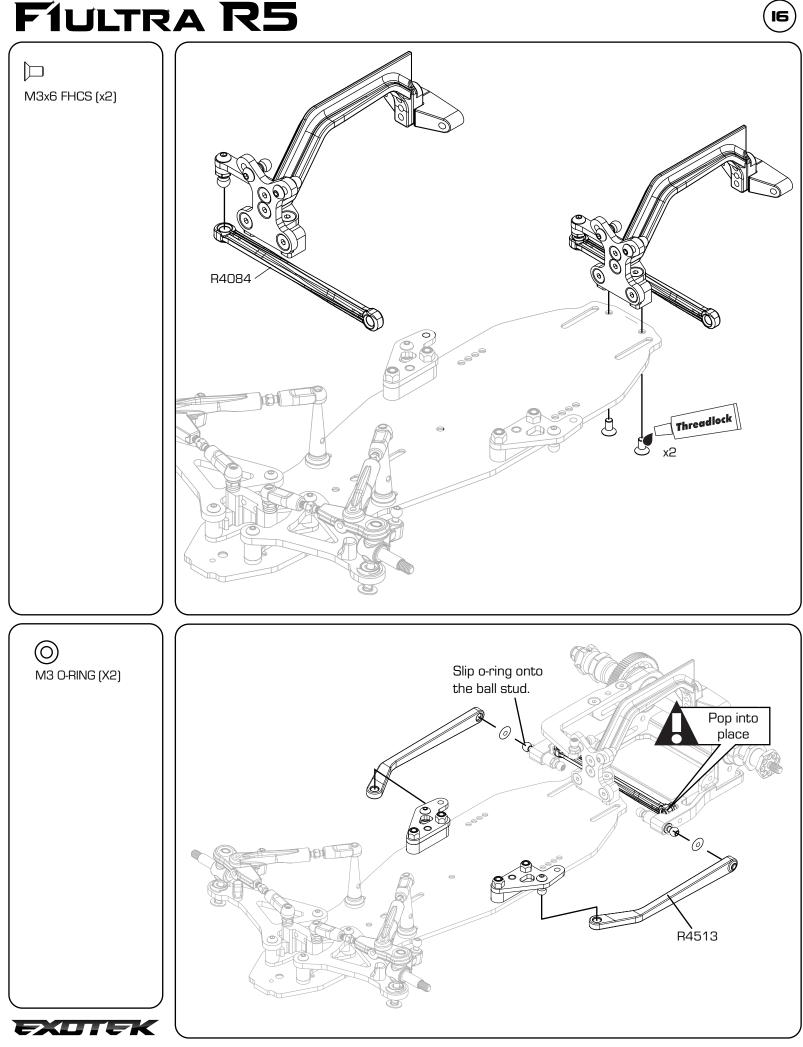


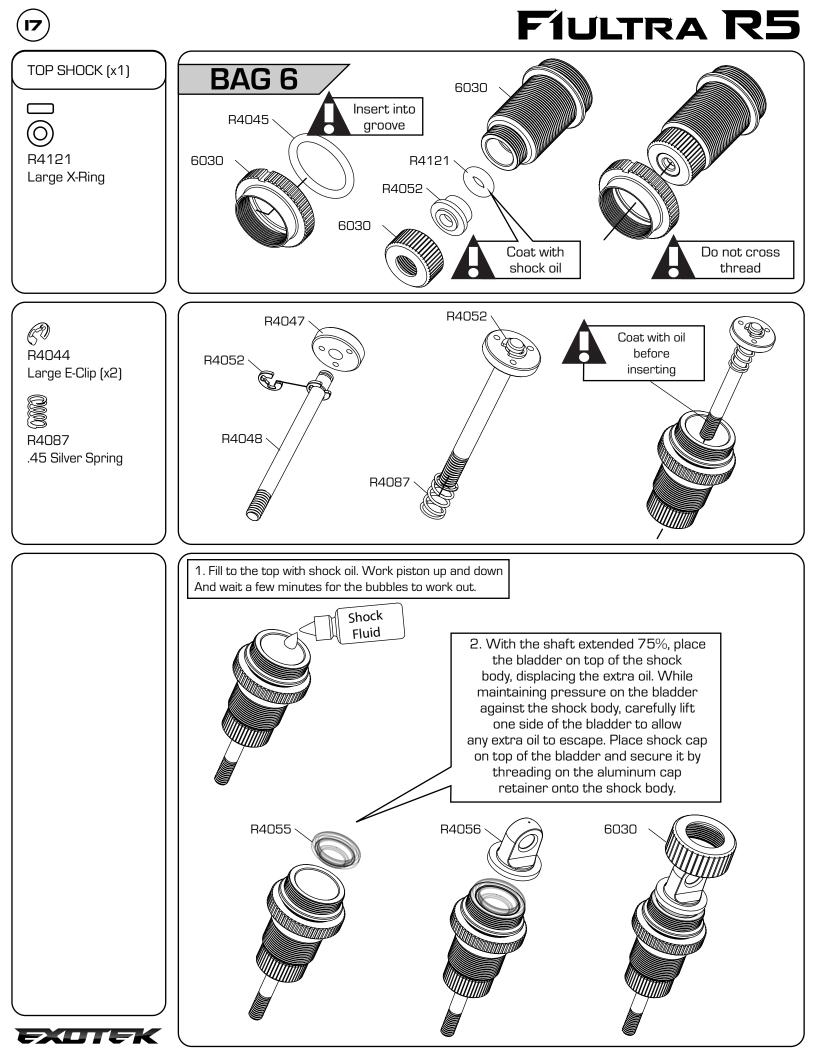




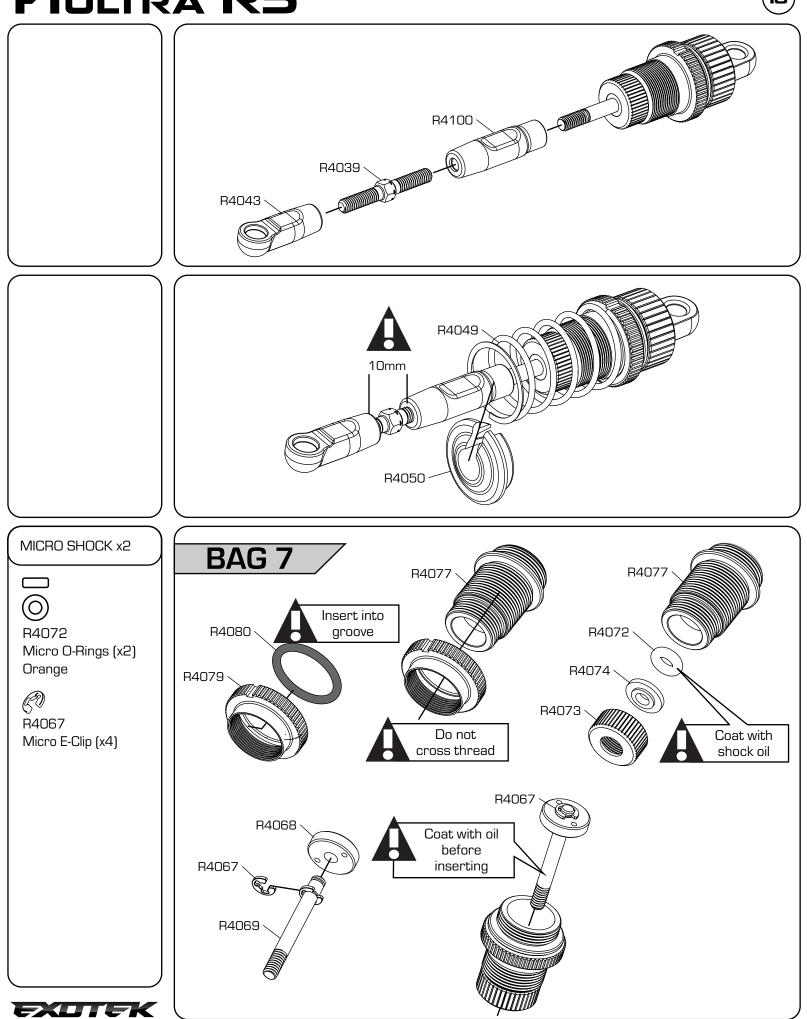
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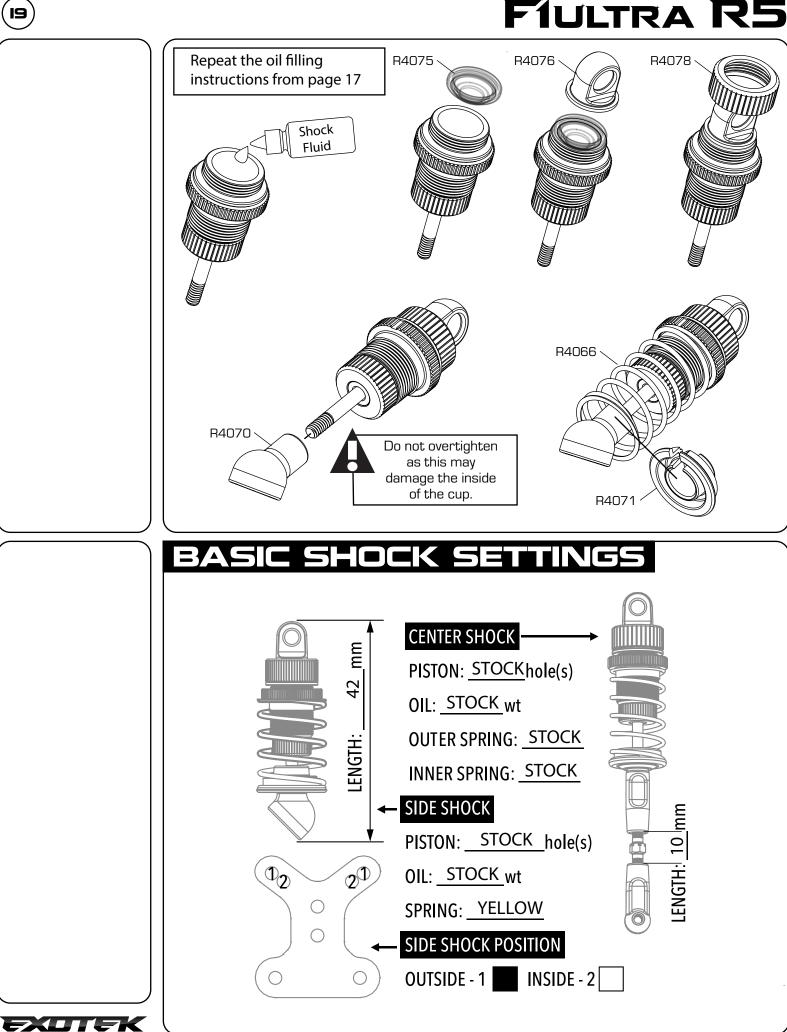


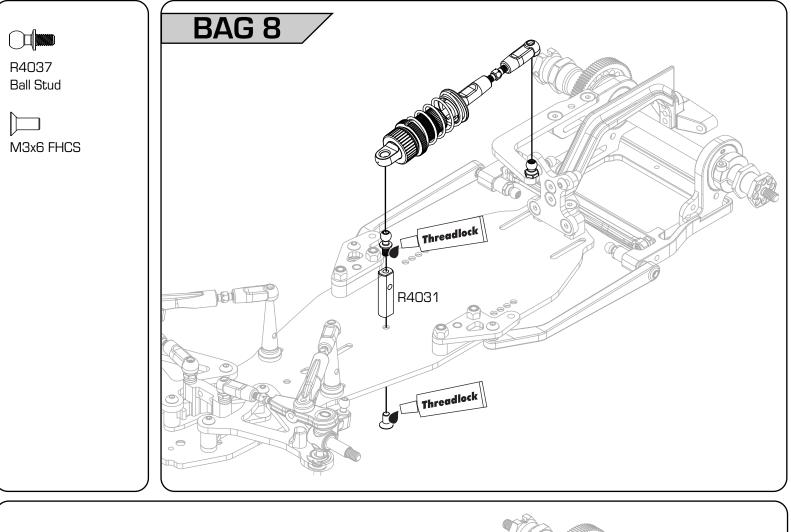




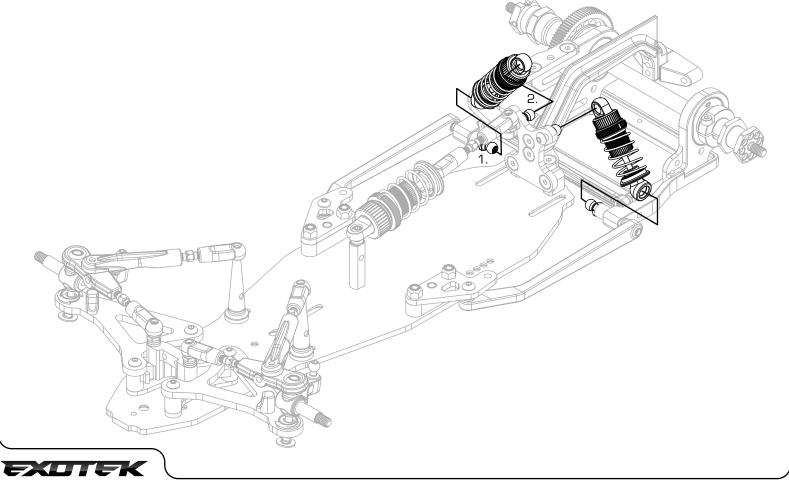


### F1ULTRA R5

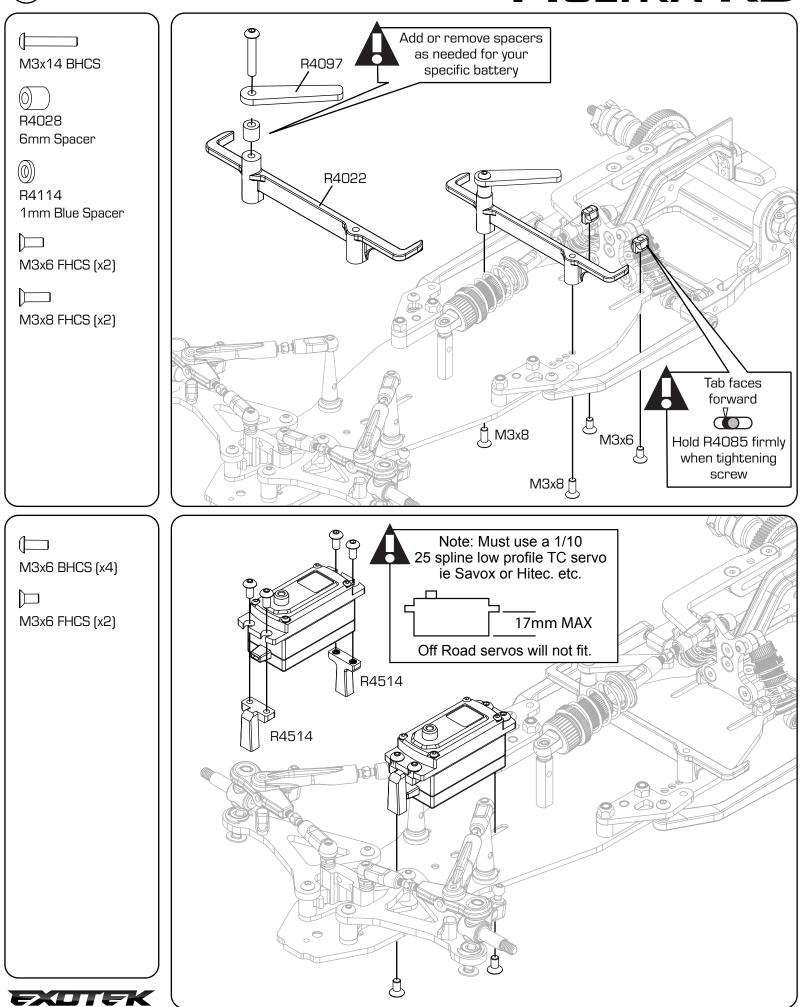


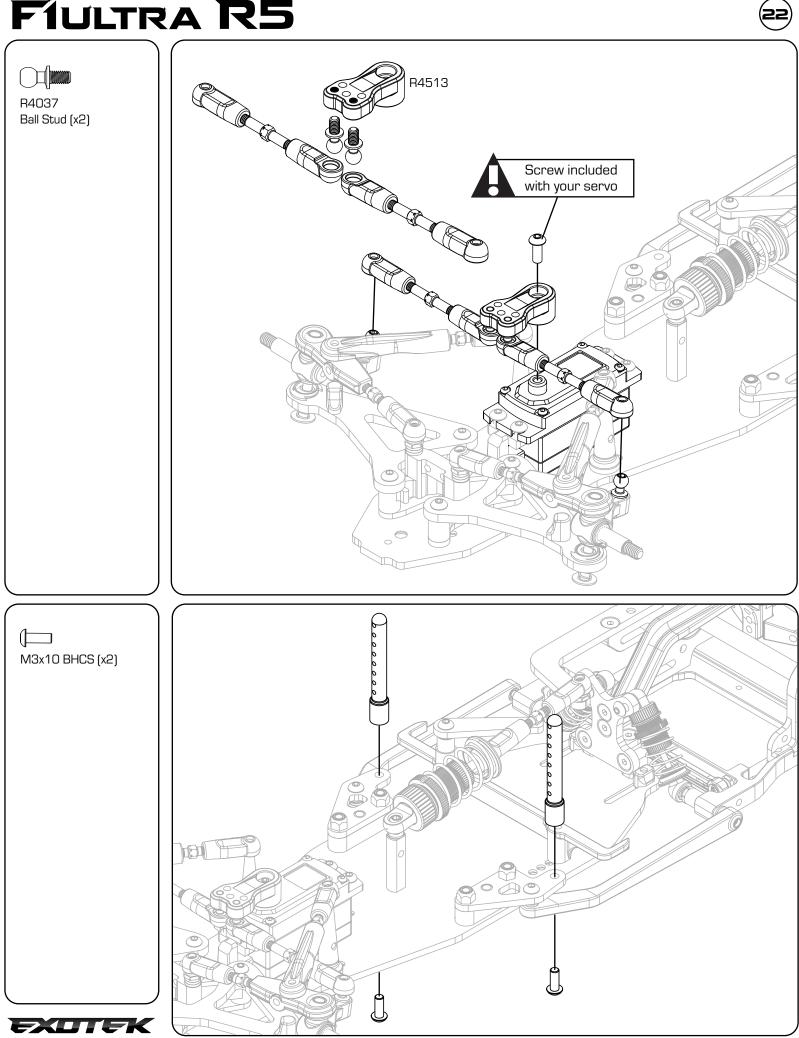


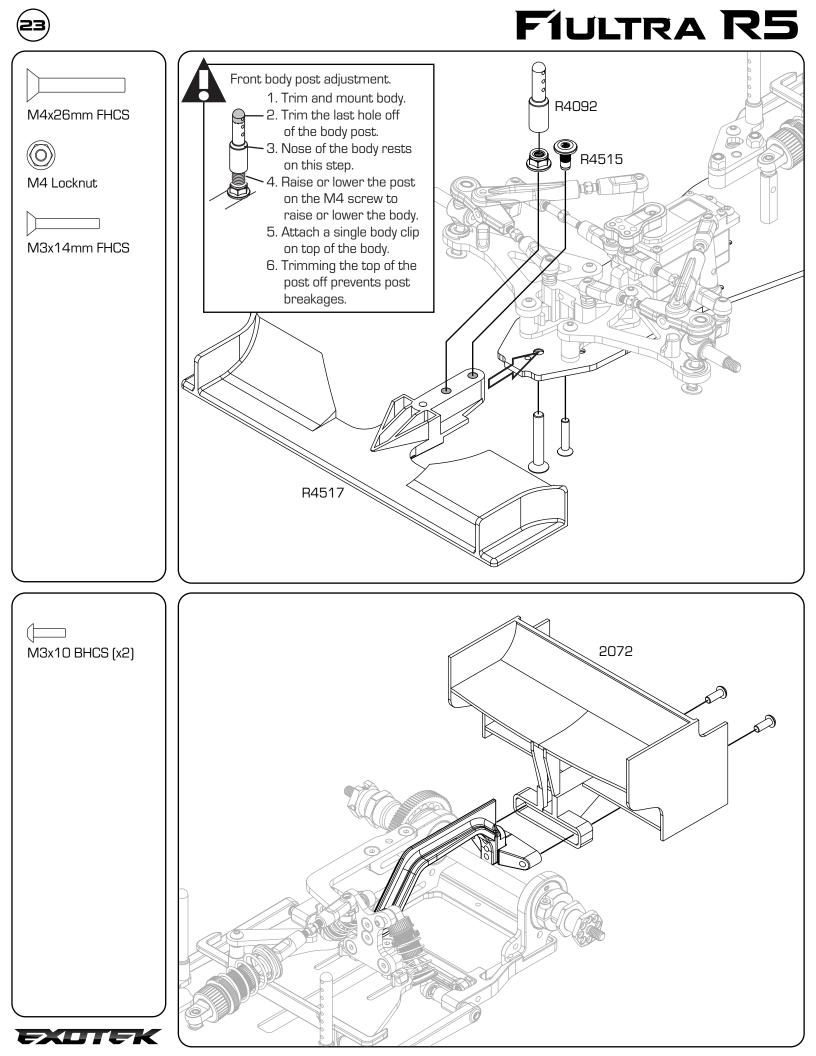
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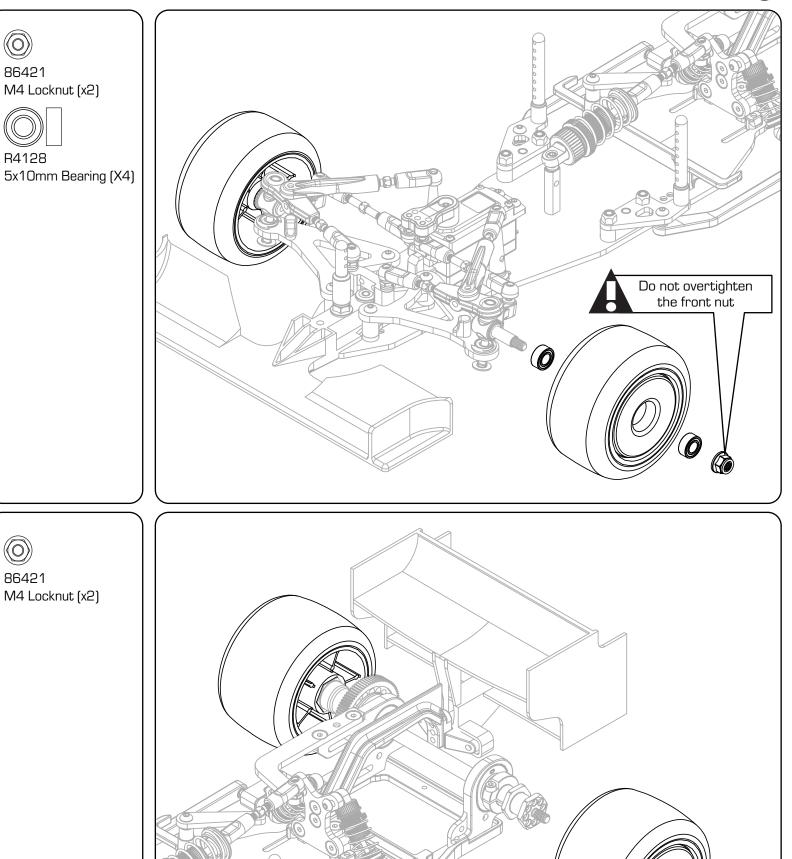






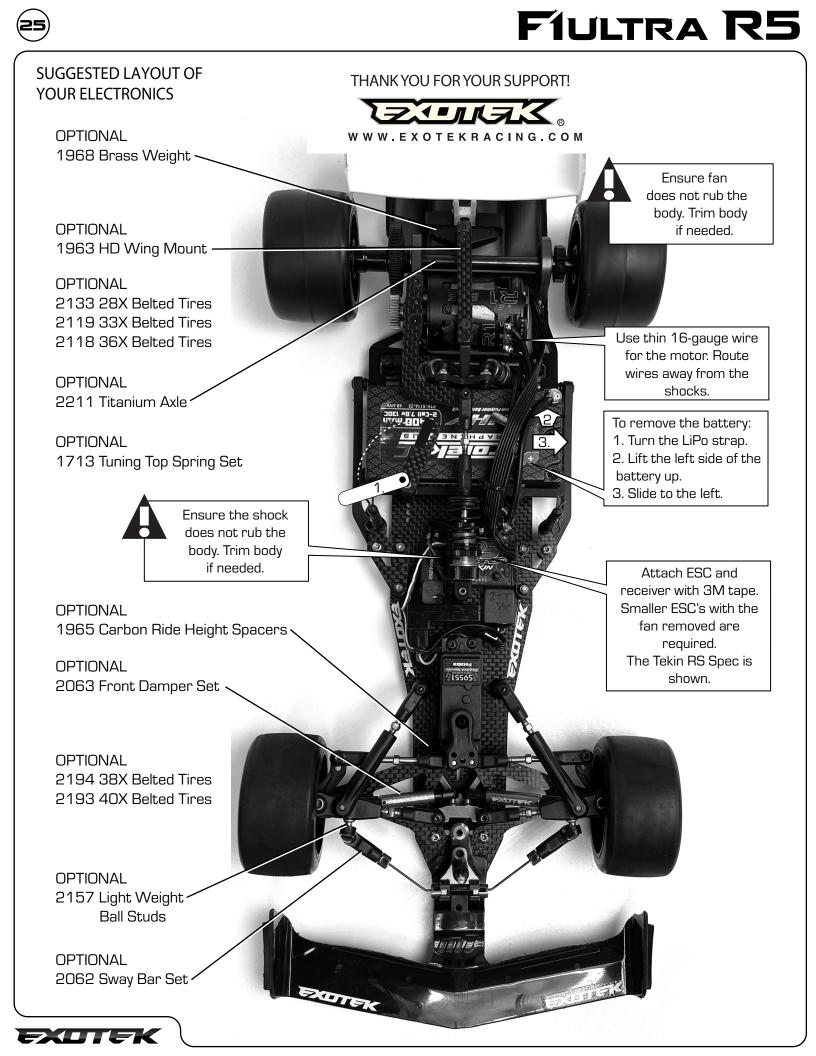






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# FIULTRA R5 SET UP TIPS

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#### **REAR RIDE HEIGHT**

Using a long onroad ride height gauge, measure the

- 3 locations shown here in this order;
- A Rear pod height (ie 5mm). Measure the pod.
- B Center link height (ie 5mm). Measure the front of the pod.
- C Rear chassis height (ie 5mm). Measure the back of the chassis.

NOTE- The wheels must be attached and battery installed.

To change the ride height, change it in this order;

- (A) Change bearing cams for height A.
- B Adjust the top shock turnbuckle for height B (longer link raises the B setting).
- C Adjust the 2 micro shock collars for height C (lowering the collars raises the rear chassis). This last setting is the most important to watch to keep from bottoming out.

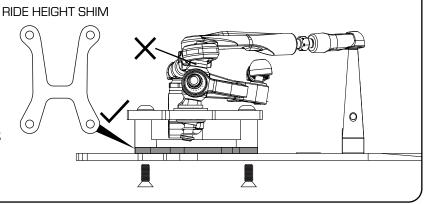
IMPORTANT- Insure you have enough ride height here or you may experience a car that is loose in corners due to the chassis scraping the ground at high speed.

5mm

5mm

#### FRONT RIDE HEIGHT

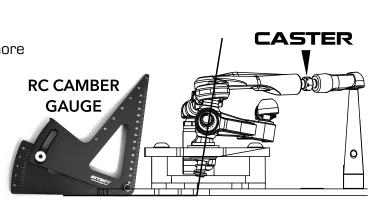
Change the front ride height by changing the bulkhead plate thickness (Exotek Options). Change M3 screws as needed for proper length and durability. Do not change the steering knuckle shimming to change ride height as the pins may rub the wheels. You may need to add shims under the steering post for extreme low ride heights.



### CASTER

Caster is changed via the trailing caster control arm. Simply adjust the length shown and measure the pin angle with a sideways camber gauge or for more accurate settings, use a 1/10 TC set up station (Hudy etc) with the **Exotek caster doodle #2021**. We suggest around -5° for tight tracks and -9° for large sweeping tracks.

Also readjust your camber after changing your caster.

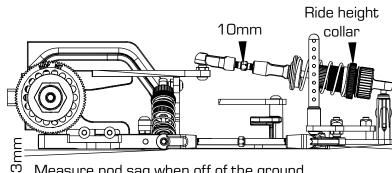




#### MOTOR POD SAG

Longer turnbuckle equals more forward bite by reducing tire spin on acceleration because the piston is further into the shock body. Less turnbuckle length creates more on power steering because the piston is hard against the internal spring.

Re-check ride height after adjusting turnbuckle length.



Measure pod sag when off of the ground.

1-3mm for asphalt 0-1mm for carpet

Internal spring.

Same spring as the

front kingpin springs.

### TOP SHOCK

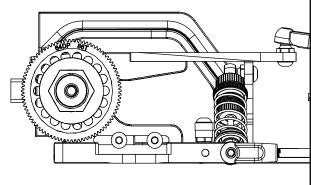
The internal top shock spring controls the forward bite. Use a soft spring for more forward bite and a hard spring for less bite.

The outer spring controls track bumps and braking stability. Softer outer springs are needed for bumpy tracks while harder springs may be suited for smoother tracks.

#### MICRO SHOCKS

The side micro shocks control the side roll, dampening and center ride height. Softer springs yields the best rear traction but you must raise the ride height for the extra roll (5mm etc). If you require lower ride heights then you must use firmer micro springs.

SPRING CHART Black - Soft Yellow - Medium Blue - Hard



Outer spring

#### CAMBER

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The F1ULTRA has the easiest to adjust camber of all F1's. Simply use a turnbuckle to adjust as needed. More negative camber (leaned in) will produce more overall steering and is the first thing we adjust when we want to increase or decrease steering. We start with -1° and adjust as needed depending on overall tire grip.

