

1:10 Scale Ready-To-Run 2WD Electric Vehicle Manual & Catalog





#### :: Introduction

Thank you for purchasing this Team Associated product. This assembly manual contains instructions and tips for building and maintaining your new RTR. 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.

#### :: RTR Features

- 2.4GHz 2-channel radio with new DVC (Dynamic Vehicle Control) receiver featuring built-in adjustable gyro
- High-torque, metal-gear Reedy Servo with spring style servo saver
- Powerful Reedy 3300kV brushless motor
- · Water-resistant high-power Reedy brushless speed control with T-plug connector and LiPo low voltage cutoff
- Water-resistant enclosed receiver box
- · Lightweight street stock inspired wheels
- · High grip all terrain tires
- · Durable and lightweight aluminum top shaft
- Low center-of-gravity molded composite chassis with hook-and-loop battery straps that accommodate both NiMH and 2/3s LiPo battery packs
- Metric hardware throughout
- 22 precision rubber-sealed ball bearings
- Impact absorbing front and rear bumpers
- Adjustable body mounts
- · Rear CVA drive shafts for more reliability
- Aluminum 12mm big bore coil-over shock absorbers
- 2.6:1 ratio gearbox with heavy-duty sealed gear differential and externally adjustable slipper clutch
- · Rugged steel turnbuckles for adjustable camber and front toe-in
- Adjustable suspension geometry
- Vertical ball ends for roll center adjustments, front and rear
- Many Factory Team options already available!

#### :: Additional

Your new RTR comes factory assembled including radio gear, motor, and ESC. However, there are some items you will need to complete your kit (refer to catalog section for suggestions):

- AA-size batteries for transmitter (x4)
- Peak Detection Charger or LiPo Compatible Charger
- 6 cell NiMH battery pack or 2S LiPo battery pack w/High Current T Plug.

Tools included:

- Allen wrenches 1.5mm, 2.0mm, 2.5mm
- 12mm Shock Tool
- Multi-wrench

#### :: Other Helpful Items

- Green Slime shock lube (AE # 1105)
- Thread Locking Compound (AE # 1596)
- Silicone Diff Fluid (Refer to catalog for complete listings)
- 7 Piece Hex Driver Set (AE # 1650)
- FT Dual Turnbuckle Wrench (AE #1114)
- Calipers or a Precision Ruler
- FT Nut Drivers (AE #1666 1668, used with #1650 handle)
- FT Tire Adhesive, medium (AE # 1597)
- Silicone Shock Fluid (Refer to catalog for complete listings)
- Body Scissors (AE # 1737)
- FT Hex Wrenches (AE # 1650)
- Needle Nose Pliers
- Reamer / Hole Punch
- Wire Cutters

- Soldering Iron
- Ride Height Gauge
- Hobby Knife

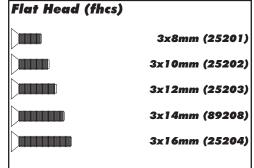
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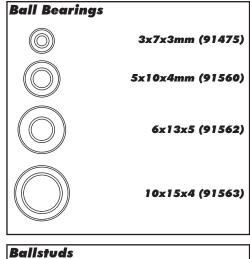


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# :: Hardware - 1:1 Scale View

<b>Button Head (bhcs</b>	<b>;</b> )
	2x4mm (31510)
	2.5x8mm (31521)
	3x5mm (31530)
	3x8mm (31532)
	3x10mm (25211)
	3x12mm (89202)
	3x14mm (25187)
	3x16mm (89203)
	3x22mm (25189)
	3x24mm (89204)
	3x26mm (89205)
	3x30mm (91478)



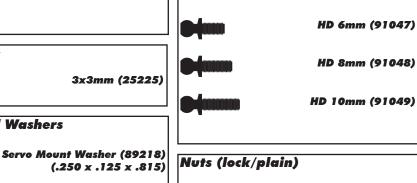


	3x3mm (25225)
Set Screws	

FT Ballstud Washer, Aluminum

FT Ballstud Washer, Aluminum

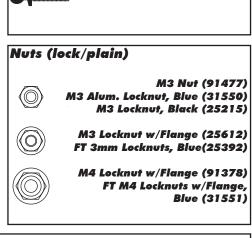
(0.5mm) (31381)



Cap Head (sho	s)
	2.5 x 14mm (71032)



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Notes:

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#### :: Notes



This symbol indicates a special note or instruction in the manual.



This symbol indicates a Racers Tip.



There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardare 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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#### :: Quick Start Guide

# **Battery Charging Steps and Safety:**

Remove the battery from the vehicle before charging. Place battery on a fire resistant surface. Avoid any contact with water or other liquids. Be sure to select the correct charging mode for the type of battery you are charging.

ALWAYS use a compatible charger for charging your batteries.

Caution: Never leave the battery unattended while charging. Always disconnect the charger from the power source when finished charging.

Caution: Always disconnect the battery when you are finished driving the vehicle.



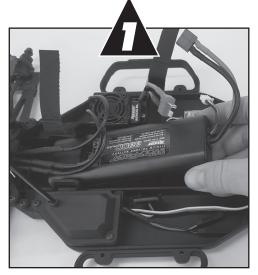
Peak Detection Quick Charger

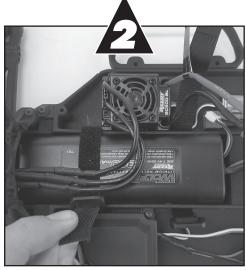
# :: Quick Start Guide - (cont.)

## **Battery Installation:**

- Install the battery with the battery wires directed towards the front of the vehicle.
- Secure the hook and loop strap near the rear shock tower.
   Pull the strap over the motor wires for added security.
- 3. Secure the hook and loop strap near the front shock tower.

You may move the foam pad to either the front or the rear of the battery compartment to adjust the weight balance of the vehicle.





## :: Quick Start Guide - (cont.)



Install antenna wire through antenna tube, then install antenna tube as shown.



## :: Quick Start Guide - (cont.)

## **Battery Notes and Tip:**

Connect the battery as shown.

Disconnect the battery when not in use!

**LiPo:** LiPo batteries (lithium polymer) are high current rechargeable batteries. LiPo batteries offer extended run time and peak performance over NiMH batteries. They require a peak detection charger designed specifically for LiPo batteries.

These batteries require special care and handling.

LiPo batteries are recommended for advanced users only!

**ALWAYS** charge a LiPo battery in LiPo mode.

If using a 3S LiPo battery, use a smaller pinion gear as a starting point (use part #1335 17T Pinion). This provides the gear ratio suggested for the more powerful 3S LiPo battery. Gearing will depend on the surface you are running on, and the size of the track/area that you are driving in.



## Radio System Tuning and Controls:

**RULE:** Transmitter on First/Vehicle on Second, Vehicle off First/Transmitter off Last!

- 1) Slide the battery cover to remove cover.
- 2) Install alkaline or rechargeable AA size batteries into the battery holder.
- 3) Slide the battery cover back into place making sure it is completely closed and secure.
- 4) Turn the power ON. If the power indicator LED fails to light, check the batteries for insufficient contact or incorrect polarity.





On/Off Switch

### :: Quick Start Guide - (cont.)

# **Radio System Tuning and Controls:**

**DO NOT** hold the trigger when turning on the radio.

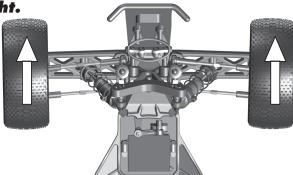
If using optional battery for transmitter, be sure to plug it in correctly. Plugging in a battery backwards can cause damage.

Refer to Radio owners manual for more in-depth instructions on radio operation and functions.

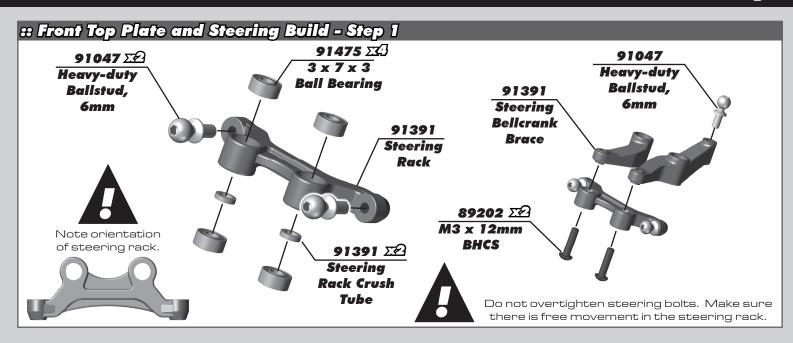


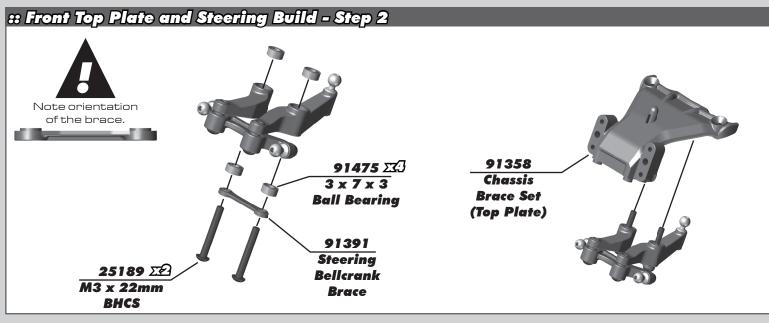
Throttle set to Neutral!

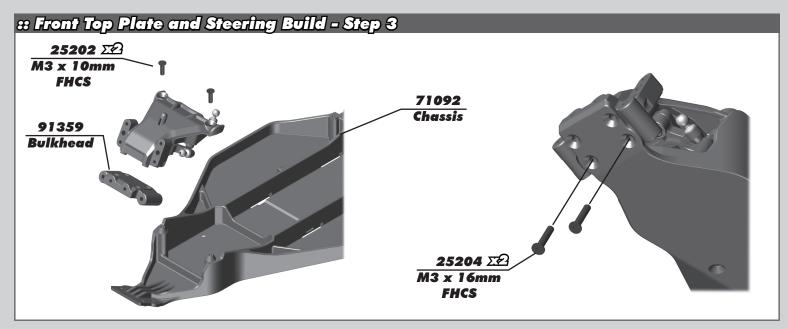
Adjust steering trim so front wheels point straight.

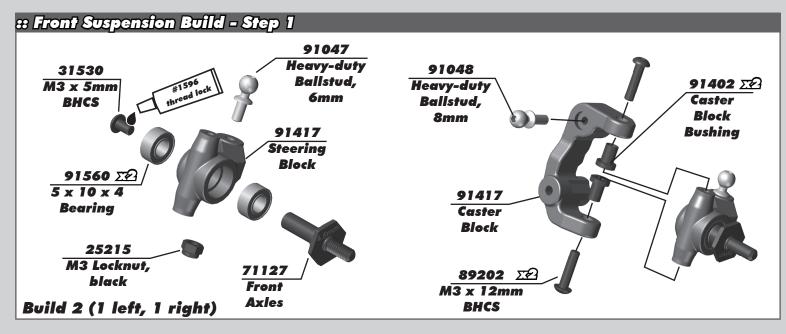


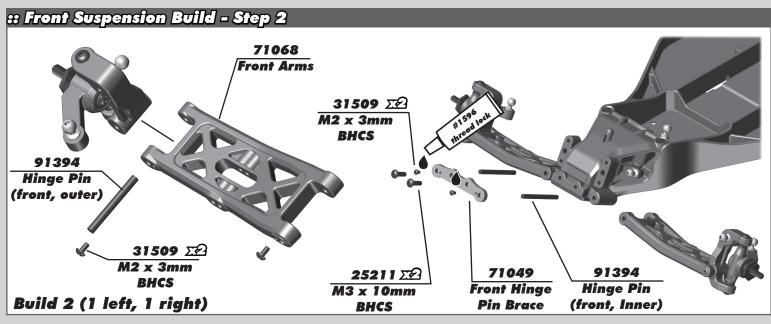
Install body and body clips. Ready to go!

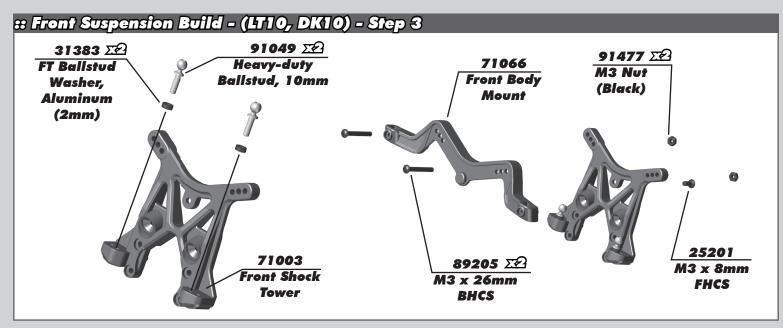


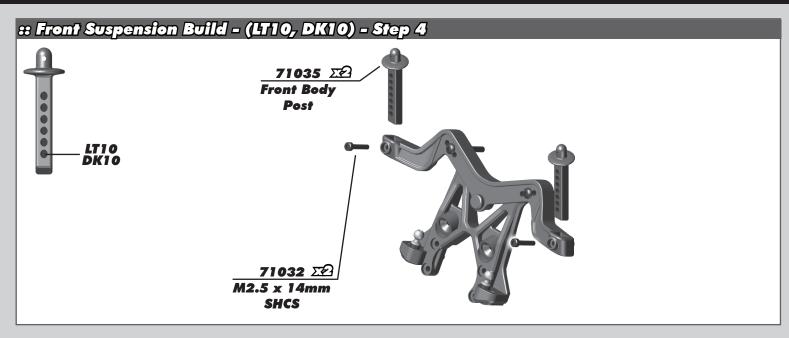


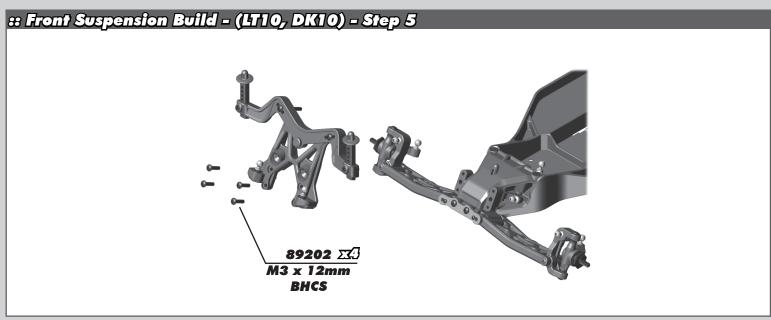


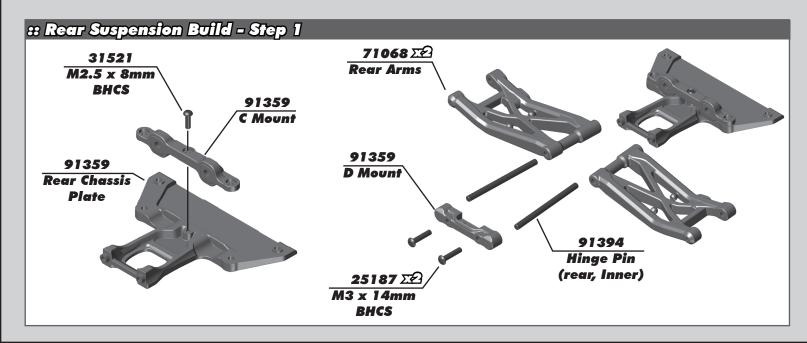


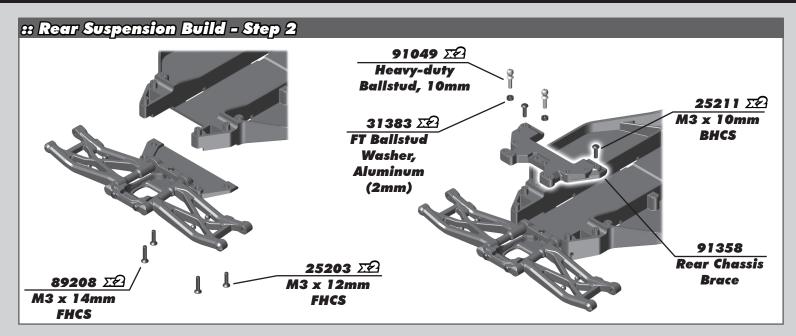


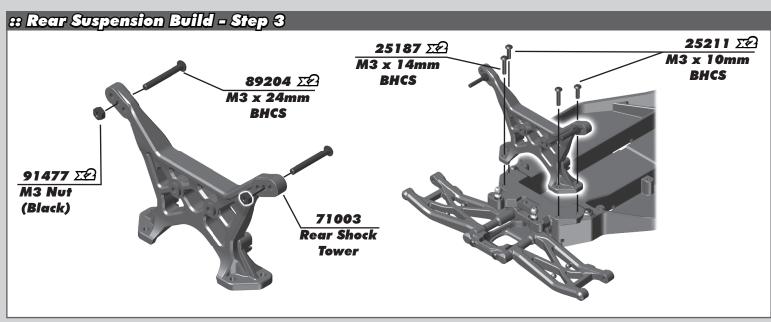


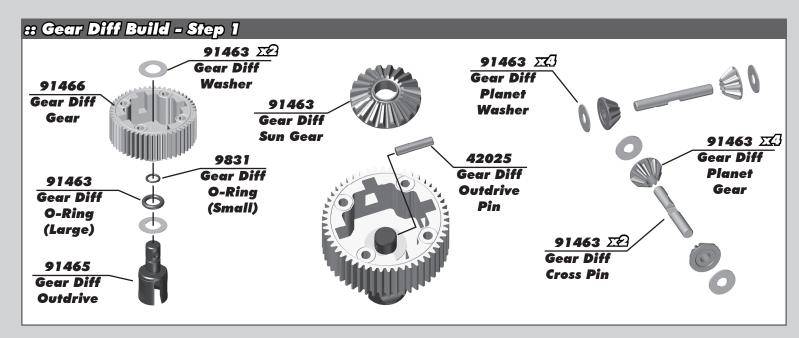


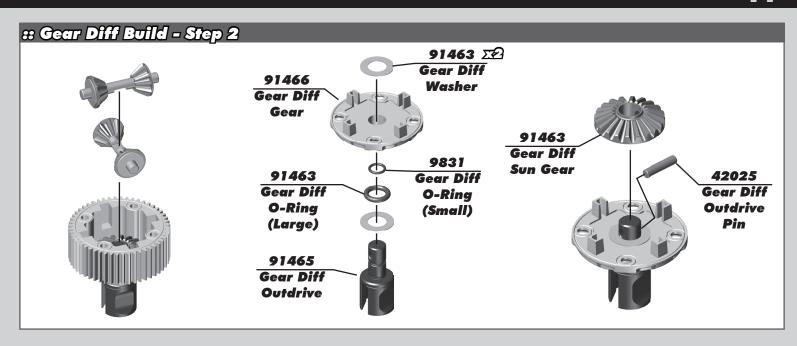


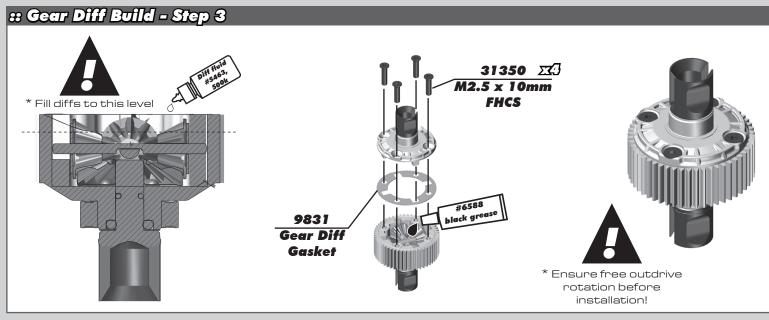


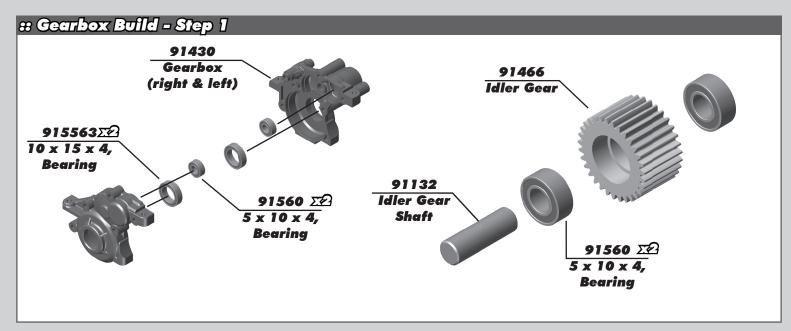


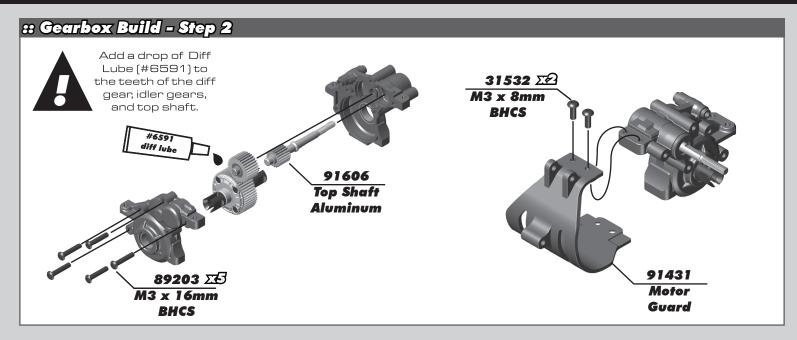


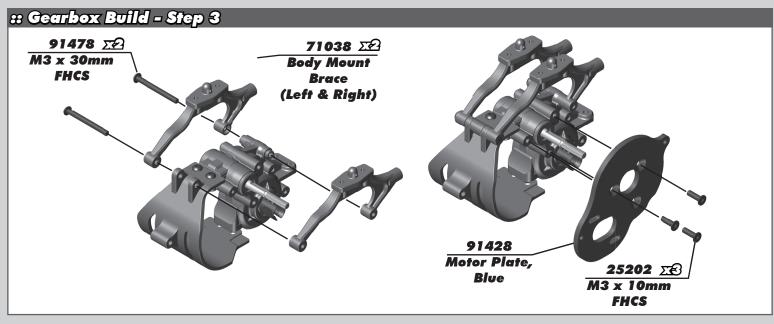


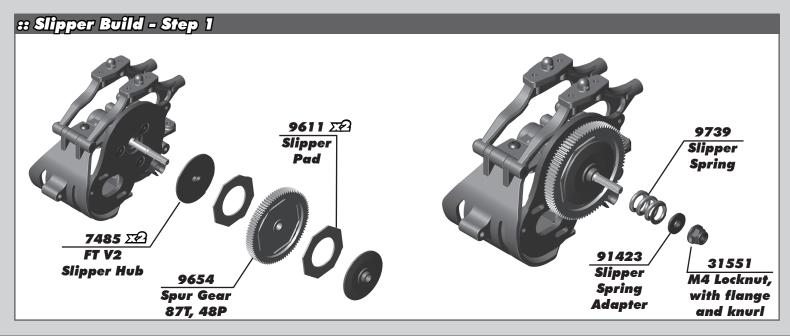


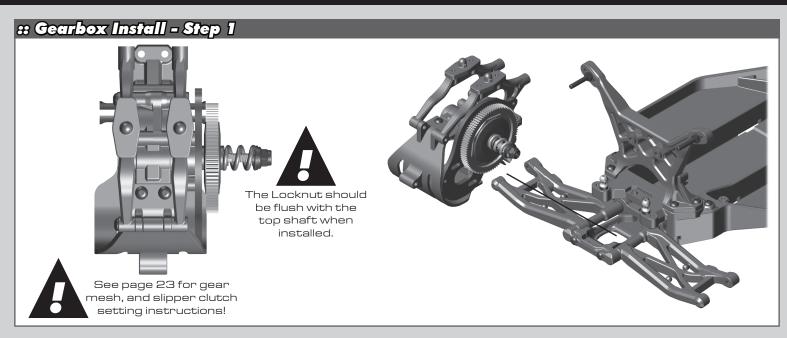


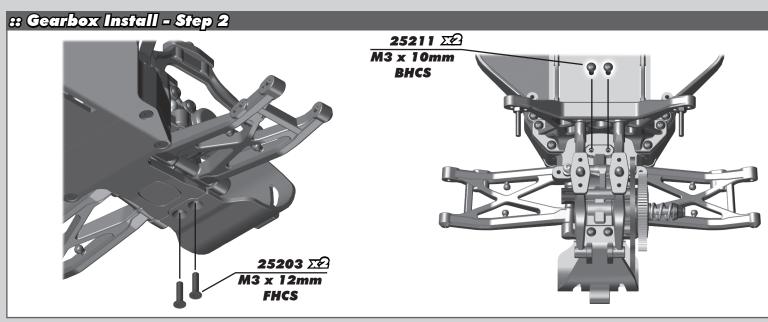


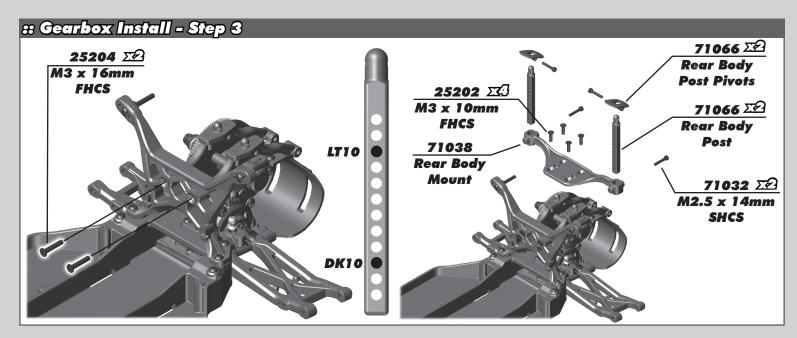


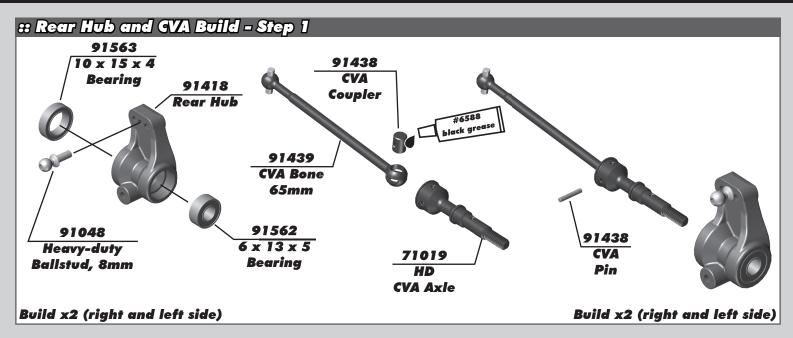


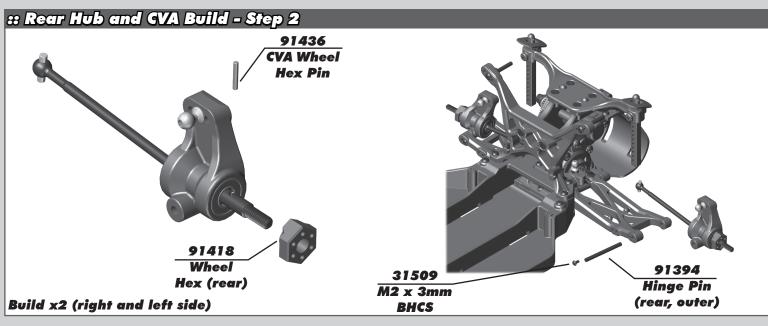


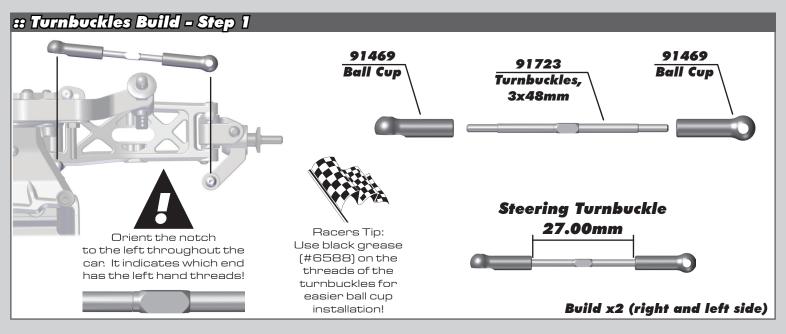


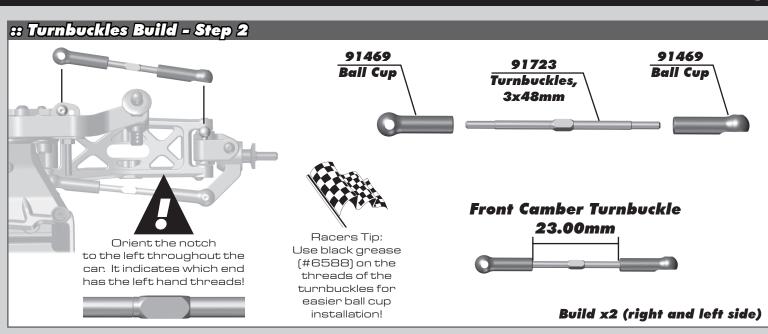


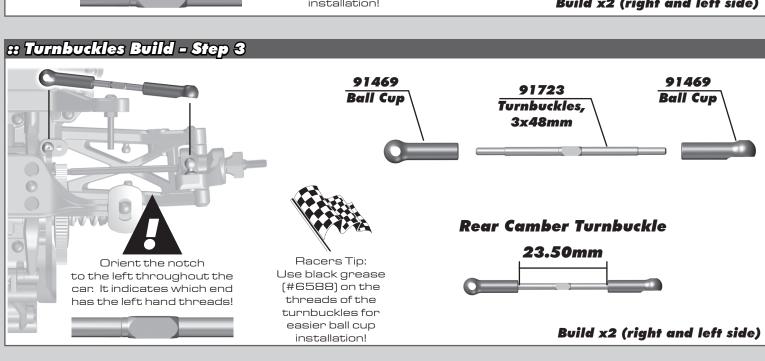


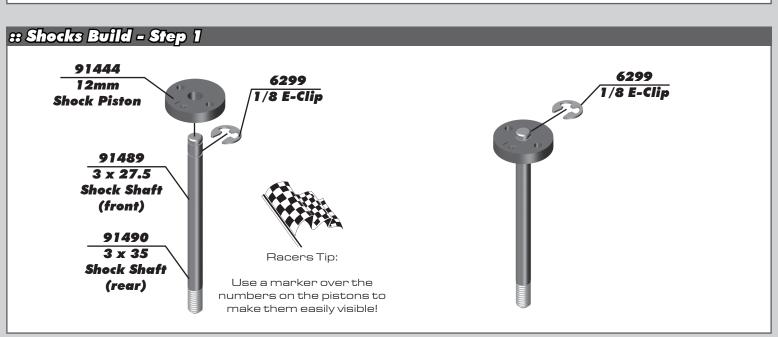


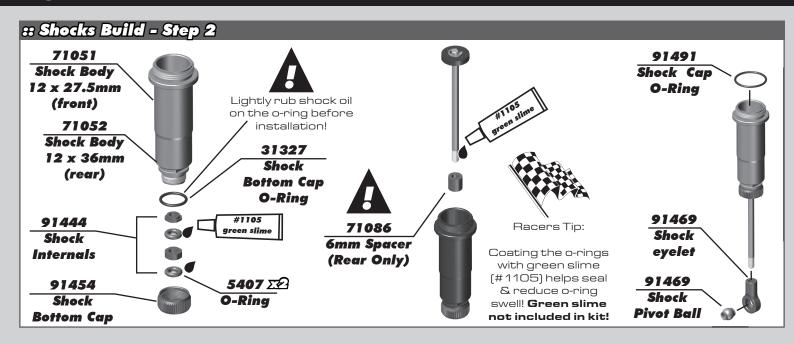


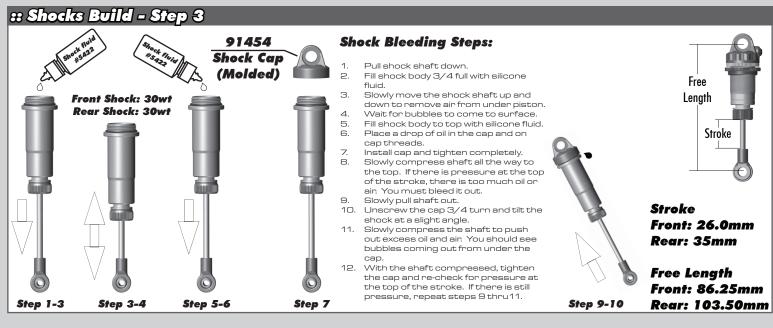


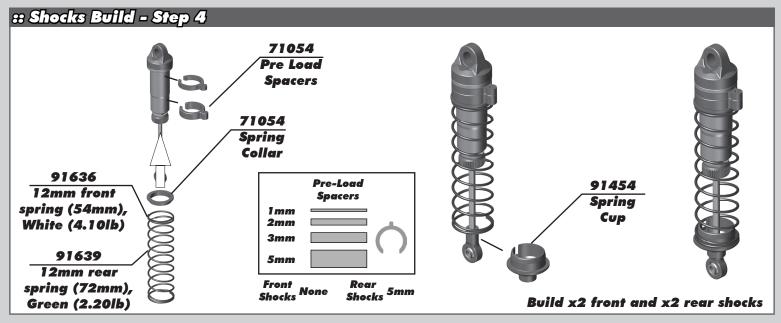


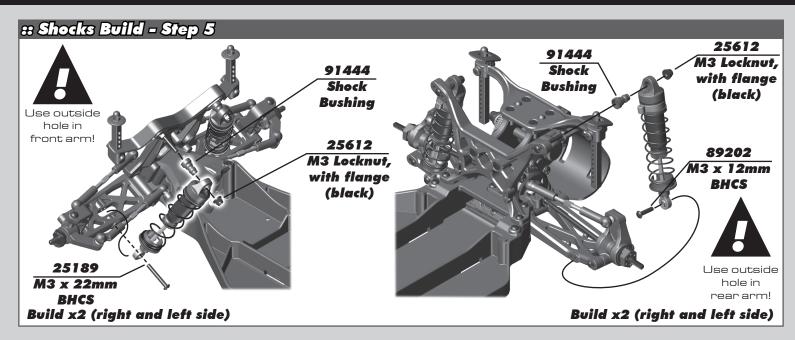


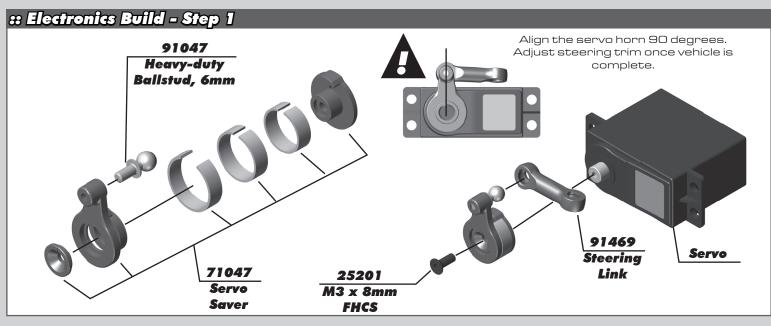


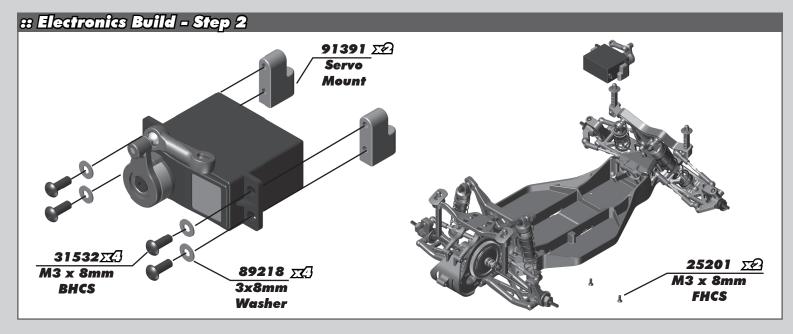


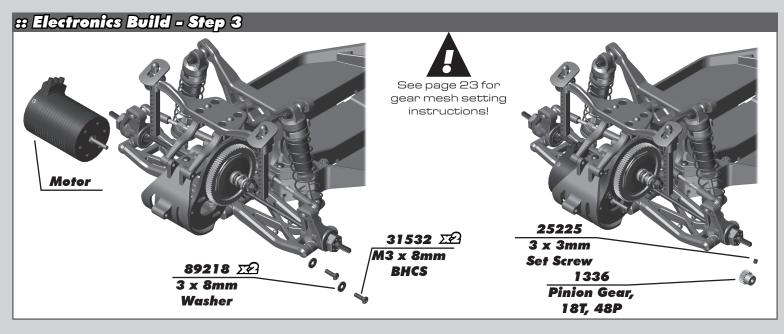


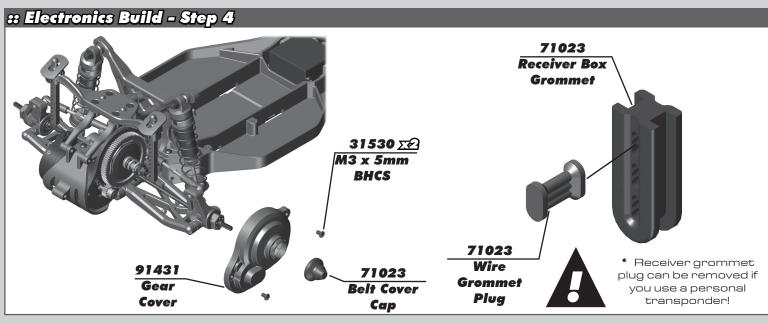


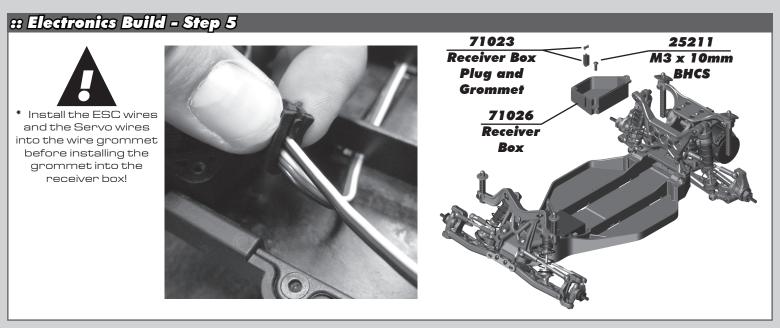


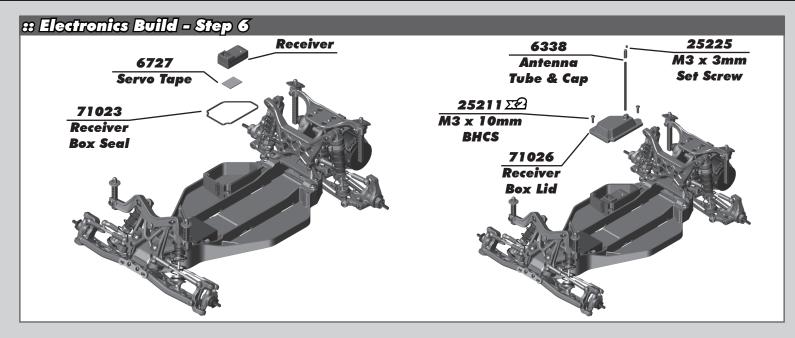


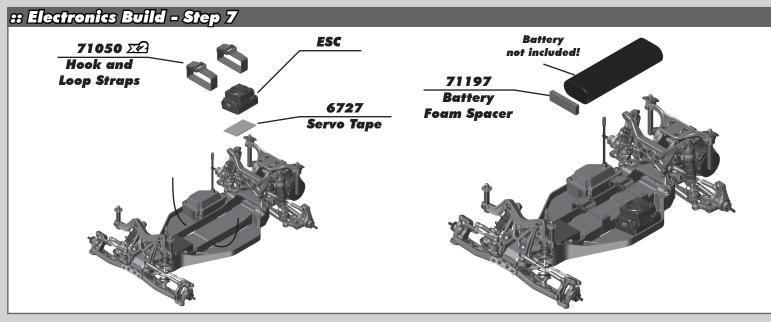


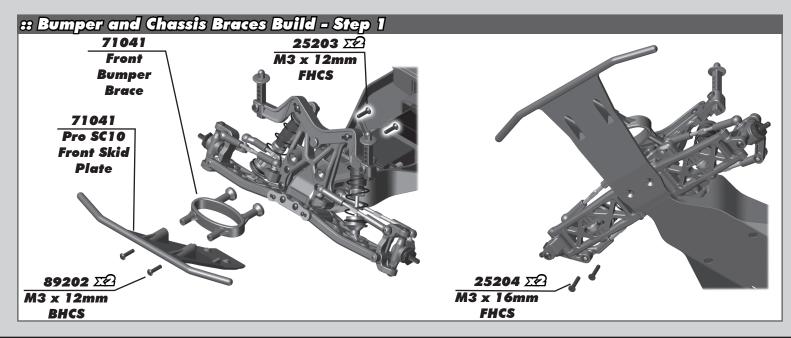


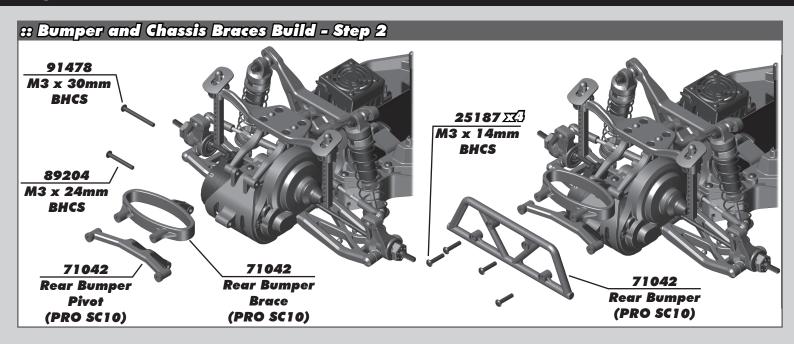


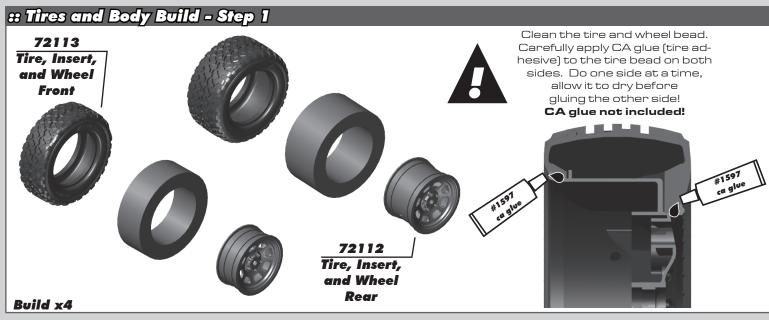


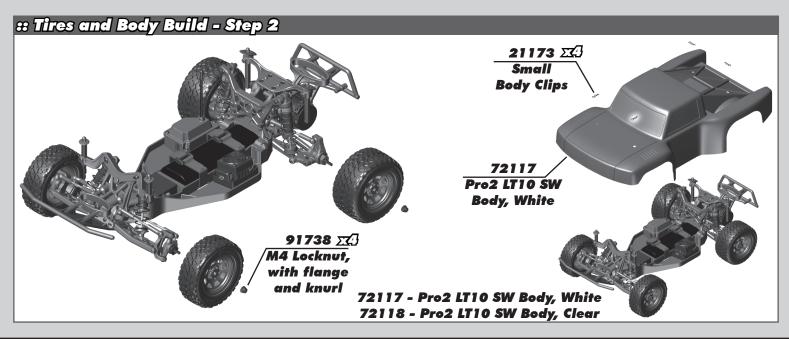


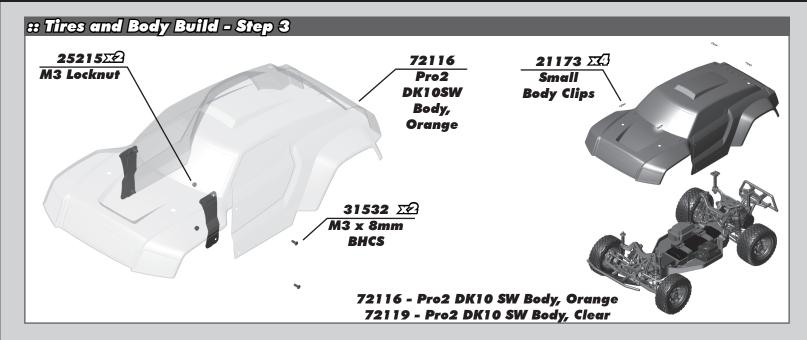












# :: Tuning Tips

# Tips for Beginners:

Before making any changes to the standard setup, make sure you can get around the track without crashing. Changes to your vehicle will not be beneficial if you can't stay on the track. Your goal is consistent laps.

Once you can get around the track consistently, start tuning your vehicle. Make only ONE adjustment at a time, testing it before making another change. If the result of your adjustment is a faster lap, mark the change on the included setup sheet (make adddtional copies of the sheet before writing on it). If your adjustment results in a slower lap, revert back to the previous setup and try another change.

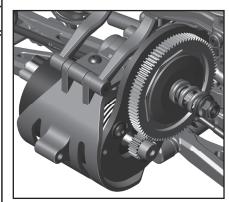
When you are satisfied with your vehicle, fill in the setup sheet thoroughly and file it away. Use this as a guide for future track days or conditions. Peridically check all moving suspension parts. Suspension components must be kept clean and move freely without binding to prevent poor and/or inconsistent handling.

## **Motor Gearing:**

Proper motor gearing will result in maximum performance and run time while reducing the chance of overheating and premature motor failure. The gear ratio chart lists recommended **starting gear ratios** for the most widely used motor types. Gear ratios will vary depending upon motor brand, wind, and electronic speed control. Consult your motor and electronic speed control manufacturers for more information.

Team Associated is not responsible for motor damage due to improper gearing.

Gear Ratio Chart (Internal Gear Ratio 2.60:1)					
Motor	Pinion	Spur	Final Drive Ratio		
17.5 Reedy Sonic Brushless	*28	*75	6.96:1		
13.5 Reedy Sonic Brushless	*26	*75	7.50:1		
10.5 Reedy Sonic Brushless	*24	87	9.42:1		
3300kV Brushless	18	87	12.57:1		



# \* Optional spur gear / pinion used

#### **Set The Gear Mesh:**

You should be able to rock the spur gear back and forth in the teeth of the pinion gear without making the pinion gear move. If the spur gear mesh is tight, then loosen the #31532 screws and move the motor away, then try again. A gear mesh that is too tight or too loose will reduce power and damage the gear teeth.

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