

# 10R5.1 FACTORY Team

#8022 RC10R5.1 Factory Team Kit



1:10 Scale Electric 2WD Competition Car Kit Manual & Catalog 3/13

# TEAM ASSOCIATED



Designed in California, USA

## :: Introduction

Thank you for purchasing this Team Associated product. This assembly manual contains instructions and tips for building and maintaining your new RC10R5.1. Please take a moment to read through this manual to help familiarize yourself with these steps.

With continued development of its pan car line-up, Team Associated's Factory Team is proud to release the RC10R5.1-FT; a 1:10 scale 2WD electric on-road race car kit.

Behind the top secret doors of Area 51, the Factory Team Design Engineers have been hard at work taking the newly optimized RC12R5.2-FT platform and blending it to a 1:10 scale footprint. The result is the RC10R5.1-FT kit, an excellent combination of race proven development and elegant styling.

The RC10R5.1-FT kit comes ready to assemble, and includes a list of new features and parts developed by Team Associated's Factory Race Team. The updated chassis platform is configured purely for LiPo batteries with optimized center of mass for a lower polar moment of inertia, offering smoother handling characteristics and faster corner speeds. The RC10R5.1-FT uses an updated rear pod with a graphite cross-brace for added rigidity, and side damper tubes for easy adjustment and maintenance. The updated chassis layout incorporates chassis brace rails that help to minimize front-to-back flex in the chassis, for even more consistency in handling. With an increased amount of adjustability, stability, and strength, it's certain that the RC10R5.1-FT is... yet another Factory Team Champion By Design!

## :: KIT Features

1. IFMAR World Championship winning Dynamic Strut front end from RC12R5
  - Symmetric part layout in front end assembly helps minimize necessary spare parts
  - 0°, 5° and 10° active strut mounts combined to one part
  - Suspension arm attaches to aluminum front bulkhead to allow for adjustable front arm spacing
2. Updated motor mount and left rear bulkhead
  - 3-point upper pod plate with graphite motor mount cross-brace
    - Cross-brace stiffens rear pod assembly, and helps minimize twisting of upper and lower rear pod plates
    - Motor mount and left rear bulkhead sections have been thickened to prevent bending
  - Rear pod has been balanced for brushless motors
3. Ultra-rigid 2.5mm thick chassis mounts centralized LiPo battery mounting position
  - Centralized mass helps stabilize mass transfer in high traction conditions
  - Fits any ROAR approved 3.7V Li-Po battery pack
4. Chassis brace rails
  - Offer increased front-to-back stiffness for the chassis for increased stability and consistency in handling
5. Front arm mounting plate has positions for two front end width options as well as two wheelbase options
6. Aluminum side spring retainers
  - Help center side spring for accurate adjustment
  - Thumb wheel shape eliminates use of allen wrench
7. Innovative thru-shaft center shock
  - Consistent shock building with no rebound
8. Damper tubes for error free side damping of rear pod
  - Ease of build and simplicity of design allow for a more "tweak" free rear pod
9. Pivot-Ball rear pod design
  - Increased durability of fixed length rear pod link
  - Tuning options isolated allowing adjustment of roll and bump independently
  - Hard anodized aluminum pivot balls at each joint

## :: Additional Features

Your new 10R5.1 comes unassembled and requires the following items for completion. (refer to catalog section for suggestions):

- R/C two channel surface frequency radio system with steering servo
- 1 cell (3.7V) LiPo battery pack
- Electronic Speed Control (ESC)
- 1:10 scale lexan race body (190mm)
- 1:10 scale foam tires
- 64 pitch pinion gear (size to be determined by type and wind of motor selected)
- AA-sized batteries for transmitter
- Battery charger (specific for charging LiPo batteries)
- R/C electric motor
  - Lexan specific spray paint

## :: Other Helpful Items

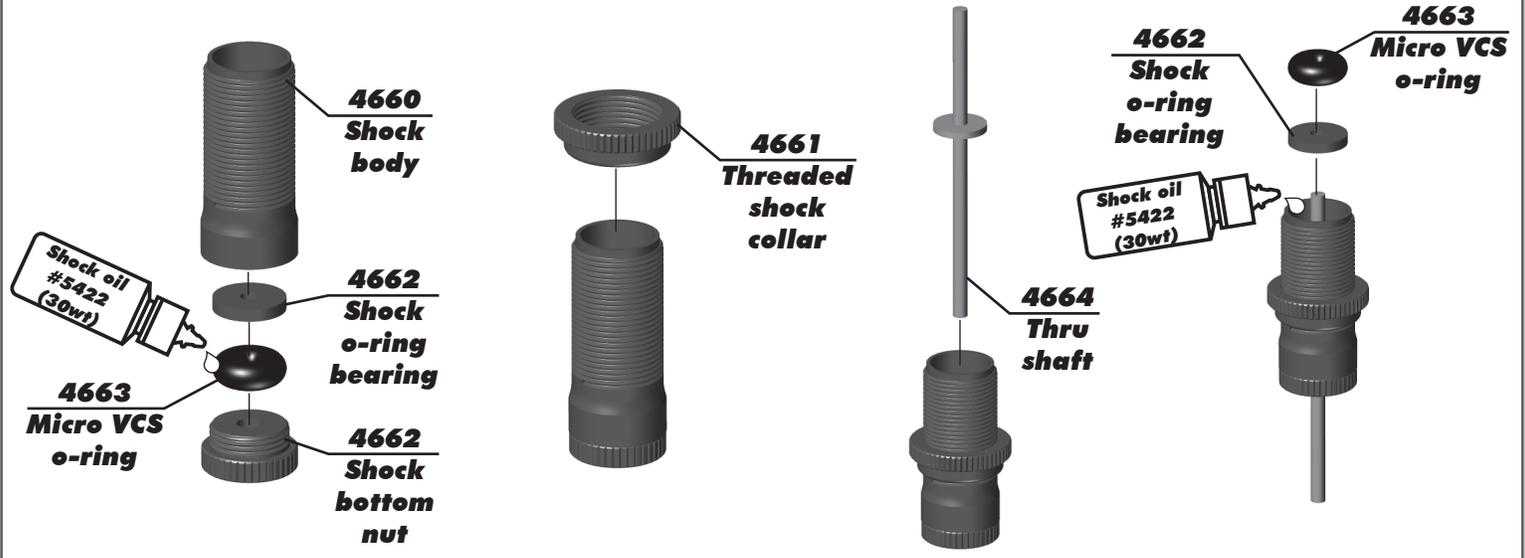
- Thread Lock (AE Part #1596)
- Body Scissors (AE Part # 1737)
- Calipers or a Precision Ruler
- Needle Nose Pliers
- Reamer / Hole Punch
- Silicone Shock Fluid (Refer to catalog for complete listings)
- Soldering Iron
- FT Hex Wrenches (AE Part # 1541)
- Silicone Diff Fluid (Refer to catalog for complete listings)
- Wire Cutters
- Hobby Knife

**Associated Electrics, Inc.**  
**26021 Commercentre Dr.**  
**Lake Forest, CA 92630**

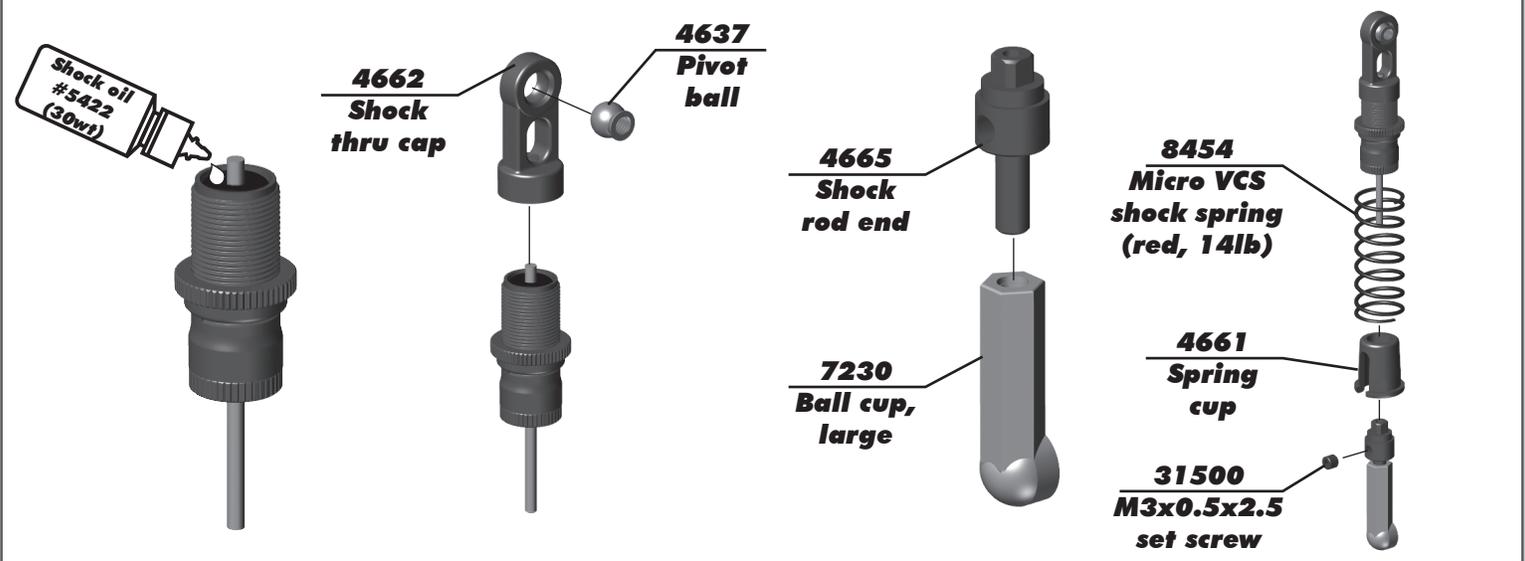


**Customer Service**  
**Tel: 949.544.7500**  
**Fax: 949.544.7501**

**:: Shock Build - Bag A-AA - Step 1**

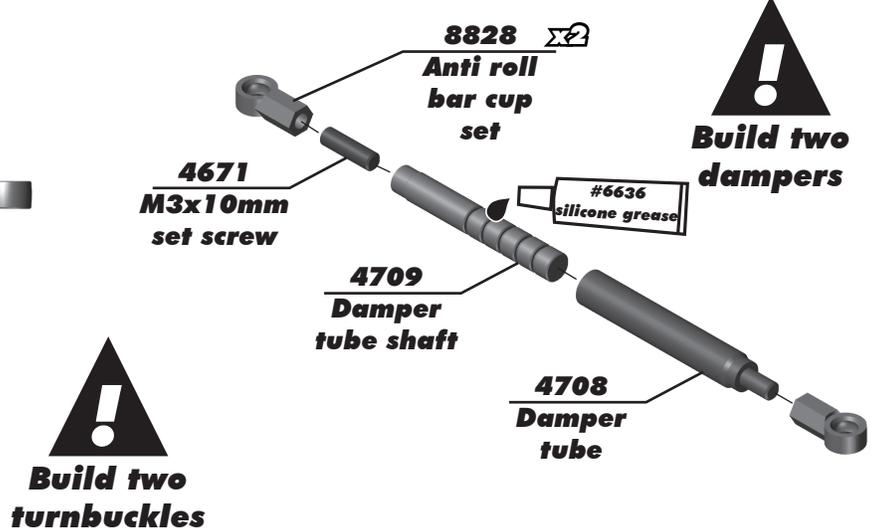
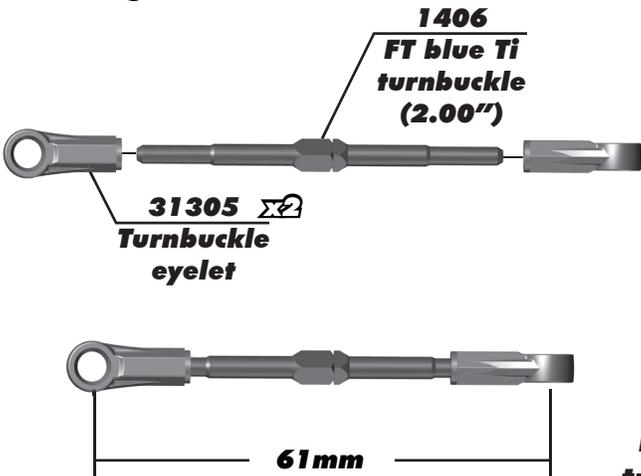


**:: Shock Build - Bag A-AA - Step 2**



**:: Turnbuckles / Side Dampers Build - Bag A-AA - Step - 3**

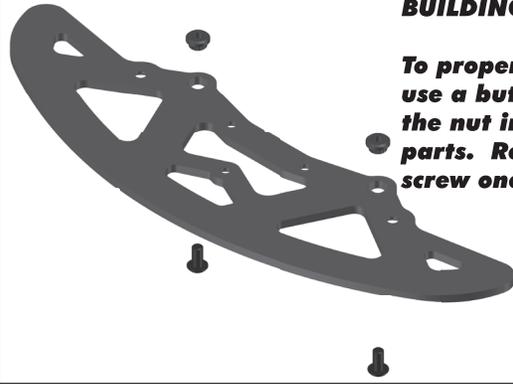
**Steering Turnbuckle**



**:: Chassis Build - Bag B-BB - Step 1**

**BUILDING TIP**

To properly install the nut inserts, use a button head screw to pull the nut insert into the carbon fiber parts. Remove the button head screw once the nut insert is installed.



**8602**  
Arm  
mount  
plate

**8606**  $\Sigma 2$   
Chassis  
rail

**8609**  $\Sigma 12$   
Nut insert

**8603**  $\Sigma 8$   
Rail shim

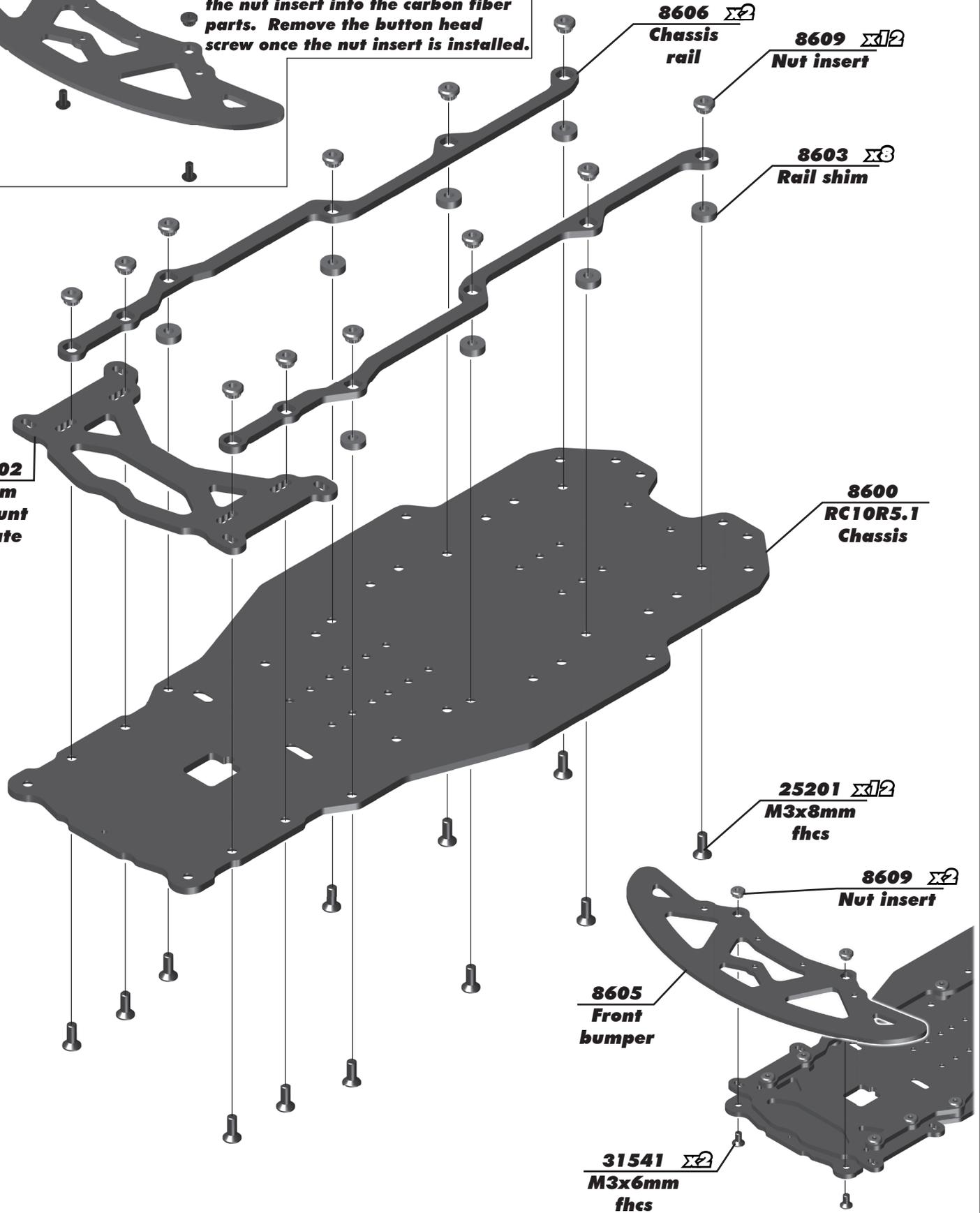
**8600**  
RC10R5.1  
Chassis

**25201**  $\Sigma 12$   
M3x8mm  
fhcs

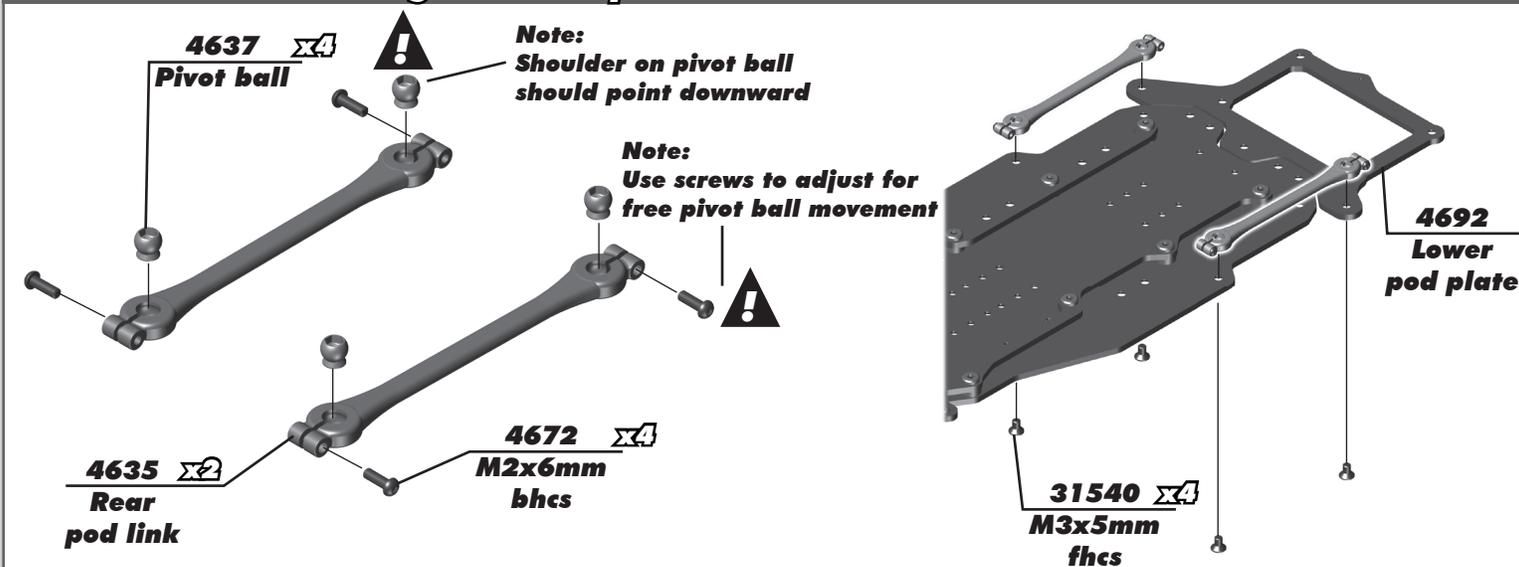
**8609**  $\Sigma 2$   
Nut insert

**8605**  
Front  
bumper

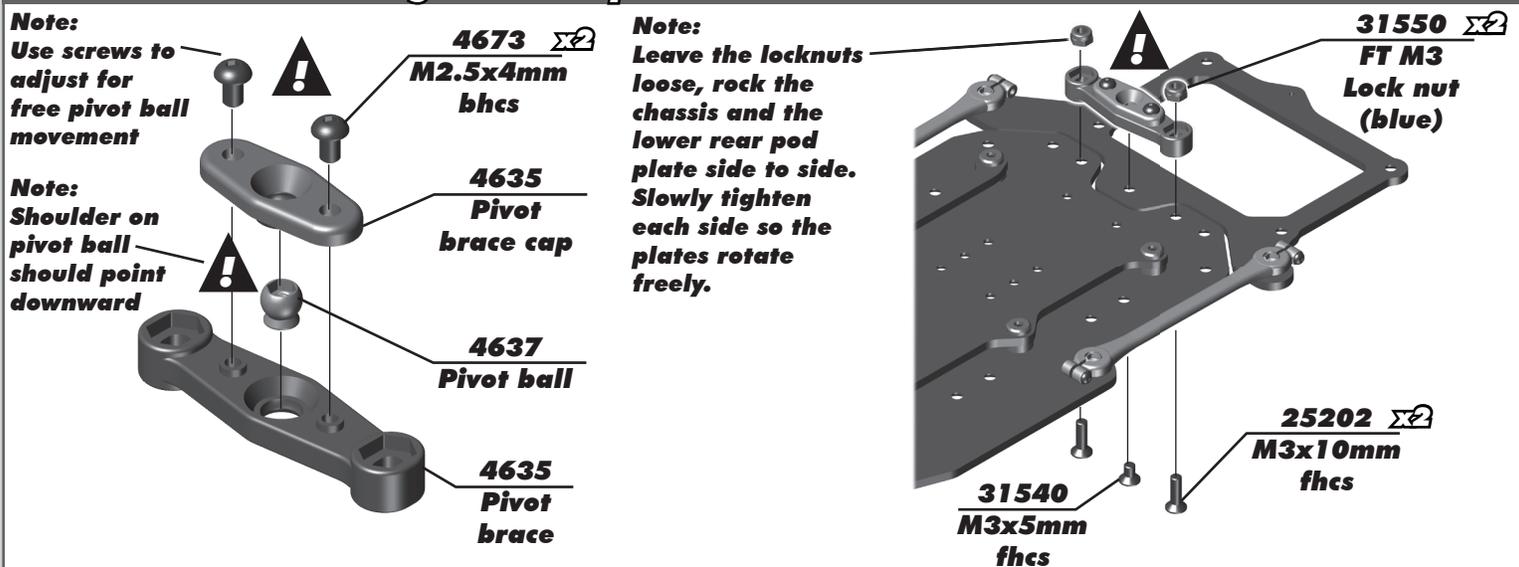
**31541**  $\Sigma 2$   
M3x6mm  
fhcs



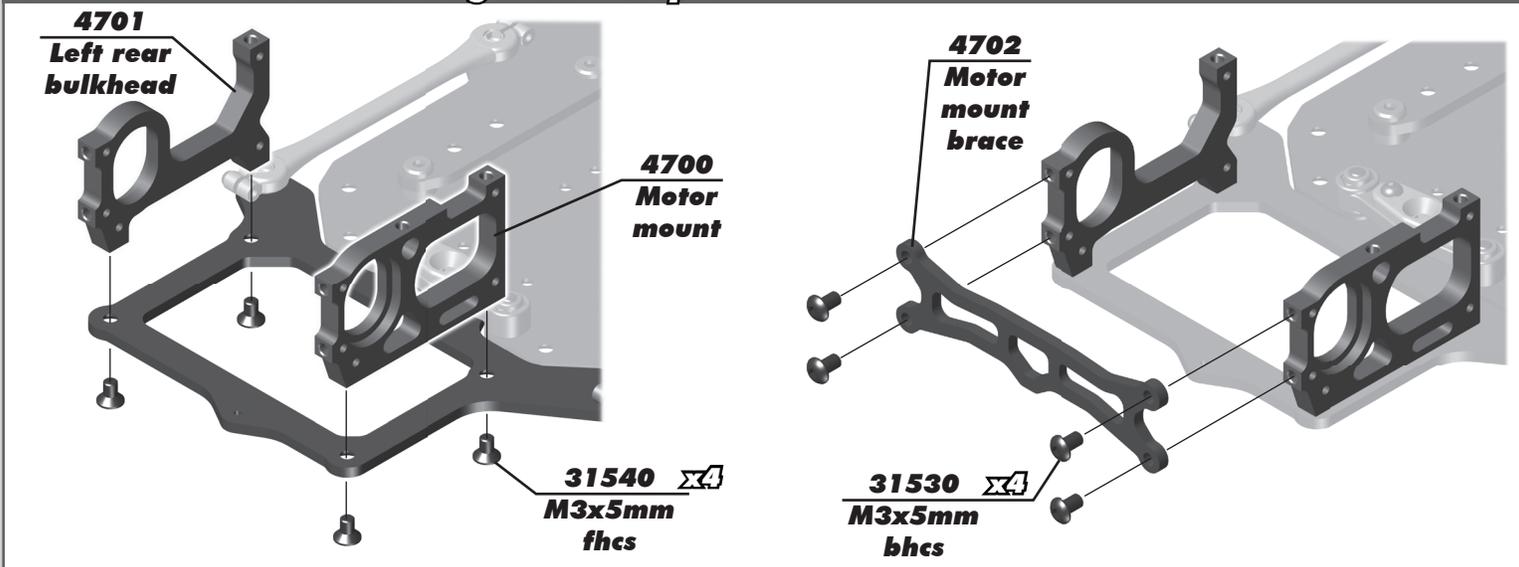
**:: Pivot Brace Build - Bag B-BB - Step 2**



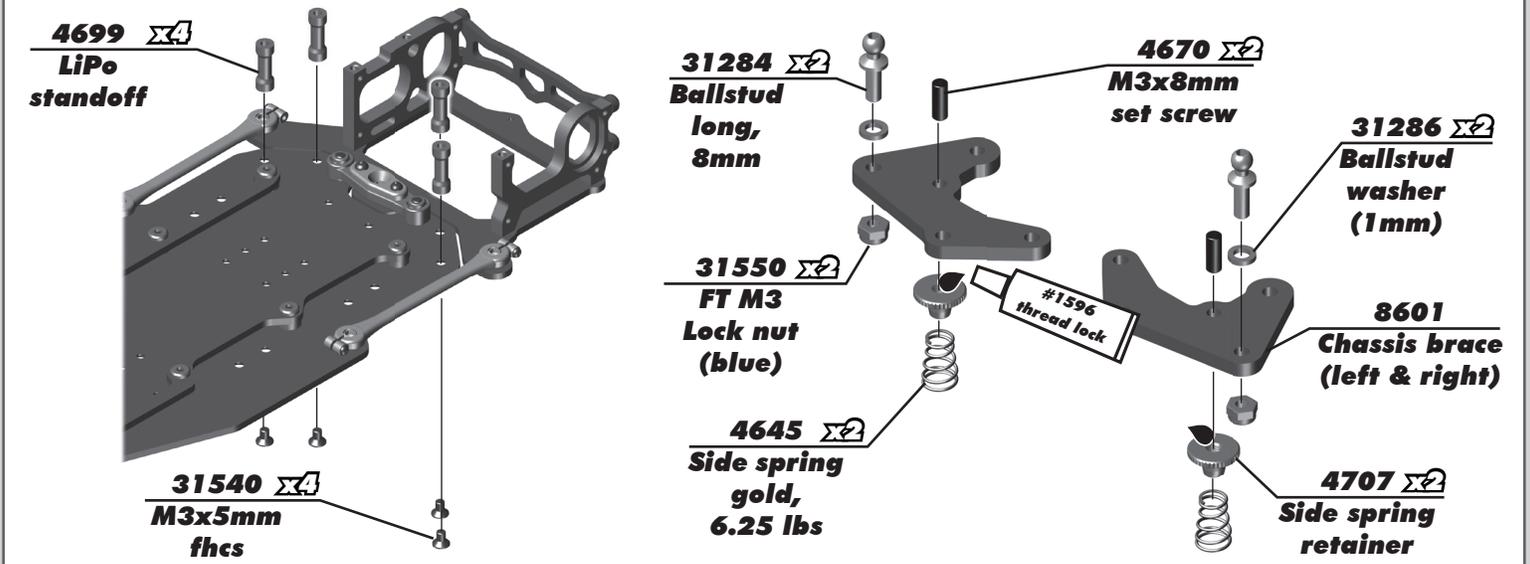
**:: Pivot Brace Build - Bag B-BB - Step 3**



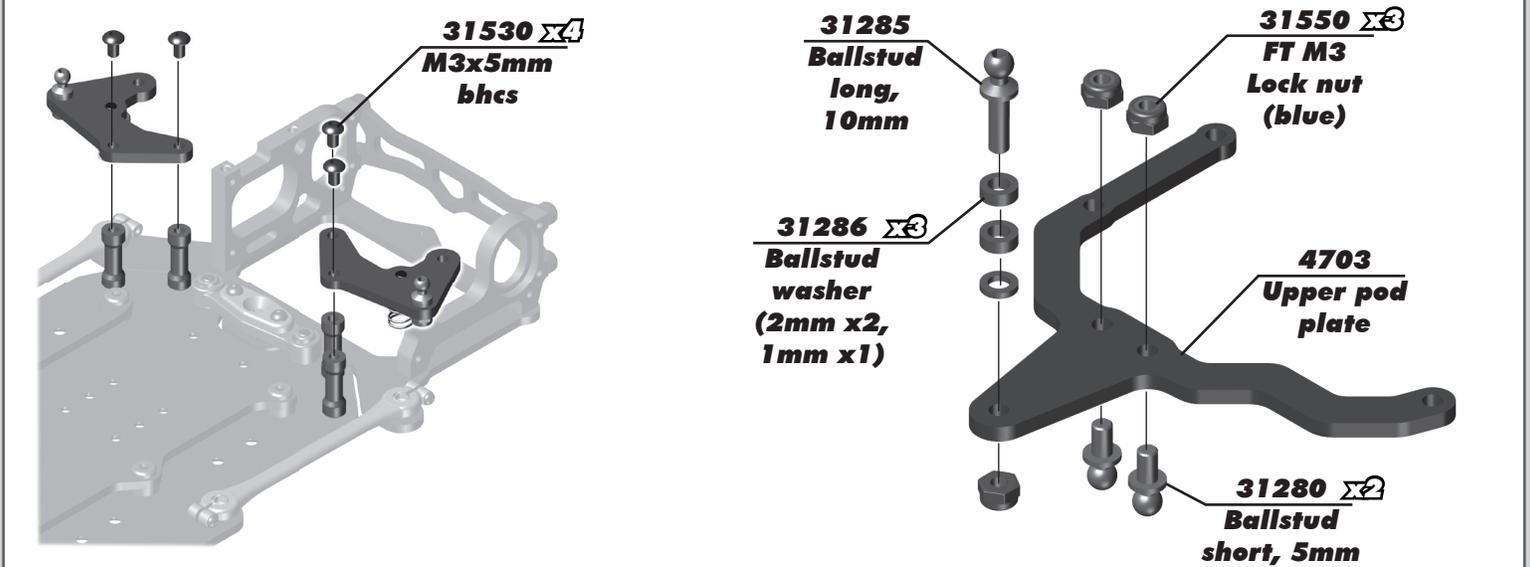
**:: Rear Bulkhead Build - Bag B-BB - Step 4**



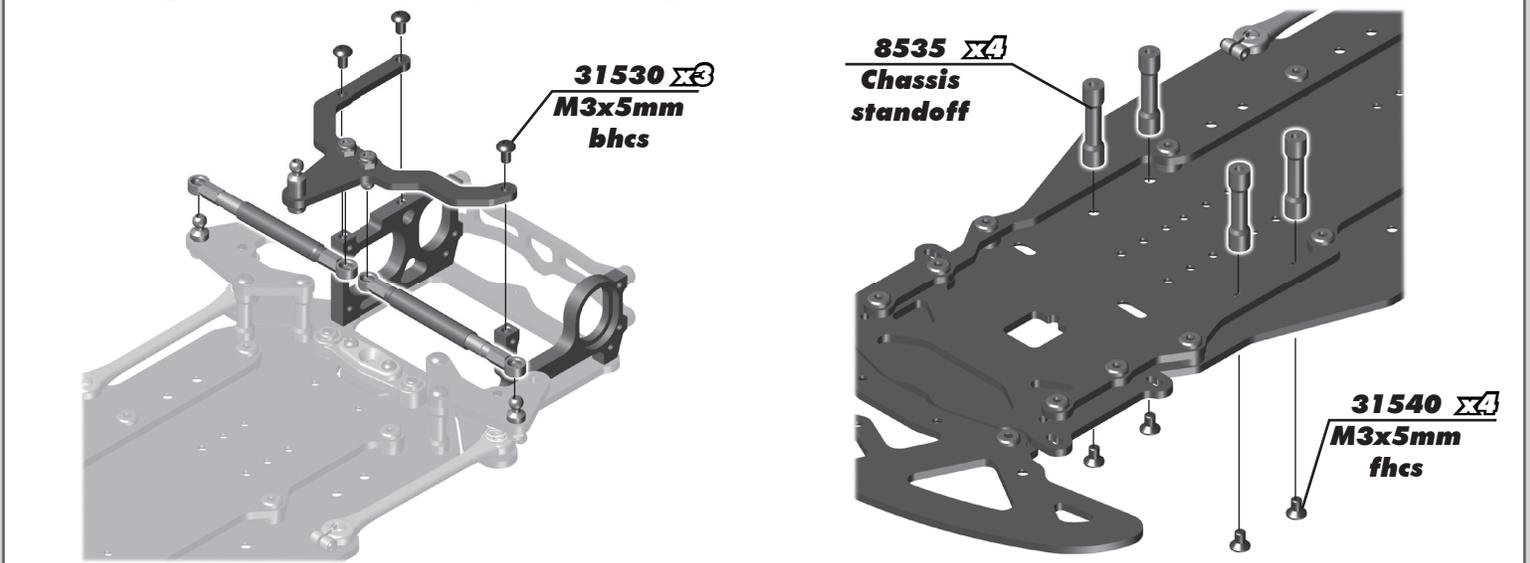
**:: Chassis Brace Build - Bag B-BB - Step 5**



**:: Chassis Brace / Rear Top Plate Build - Bag B-BB - Step 6**



**:: Rear Top Plate Build - Bag B-BB - Step 7**



**:: Steering Build - Bag C-CC - Step 1**

**4627**  
Front axle

**31280**  
Ballstud short, 5mm

**8417**  
Pivot ball

**4622**  
Upper arm eyelet

**1410**  
FT blue titanium turnbuckle (.630")

**4621**  
Upper arms

**8521**  
Steering block (left, right)

**4673**  
M2.5x4mm bhcs

**Note:**  
eyelet offset position relative to the upper suspension arm

**Note:**  
eyelet offset position to the pivot ball

**Build left and right sides**

**:: Steering Build - Bag C-CC - Step 2**

**8417**  
Pivot ball

**4706**  
Lower arms

**4705**  
Front bulkhead

**4626**  
Upper arm mount

**25203**  $\Sigma 2$   
M3x12mm fhcs

**25211**  $\Sigma 2$   
M3x10mm bhcs

**Note:**  
10° is the standard position

**Upper Suspension Mount Active Caster Settings**

10° 0°  
5° 10°

**Build left and right sides**

**Front of car**  
RF LF

**Note:**  
lower suspension arm orientation

**:: Steering Build - Bag C-CC - Step 3**

**8427**  
Spring (0.018")

**8423**  
King pin

**6299**  
E-clip

**8425**  $\Sigma 4$   
Shim

**6299**  
E-clip

**Build left and right sides**

**:: Front Bulkhead Build - Bag C-CC - Step 4**

**4623**  $\Sigma 2$   
Upper hinge pin

**31510**  $\Sigma 2$   
M2x4mm bhcs

**4617**  $\times 4$   
Front bulkhead shim (1mm)

**31532**  $\times 4$   
M3x8mm bhcs

**Bulkhead Shims**  
0.5mm 1mm 2mm

**Build left and right sides**

**:: Front Bulkhead Build - Bag C-CC - Step 5**

**Caster Spacers**  
0.8mm 1.2mm

**4624**  $\times 4$   
Caster spacers

**Caster Adjustments**  
1.80°  
3.25° standard  
6.15°

**:: Rear Axle Build - Bag D-DD - Step 1**

**4615**  
Spur gear 96T-64P

**4565**  
Rear axle

**897**  $\Sigma 3$   
3/8 x 1/4 flanged bearing

**8504**  $\Sigma 2$   
Diff d-ring

**8519**  
Right wheel hub

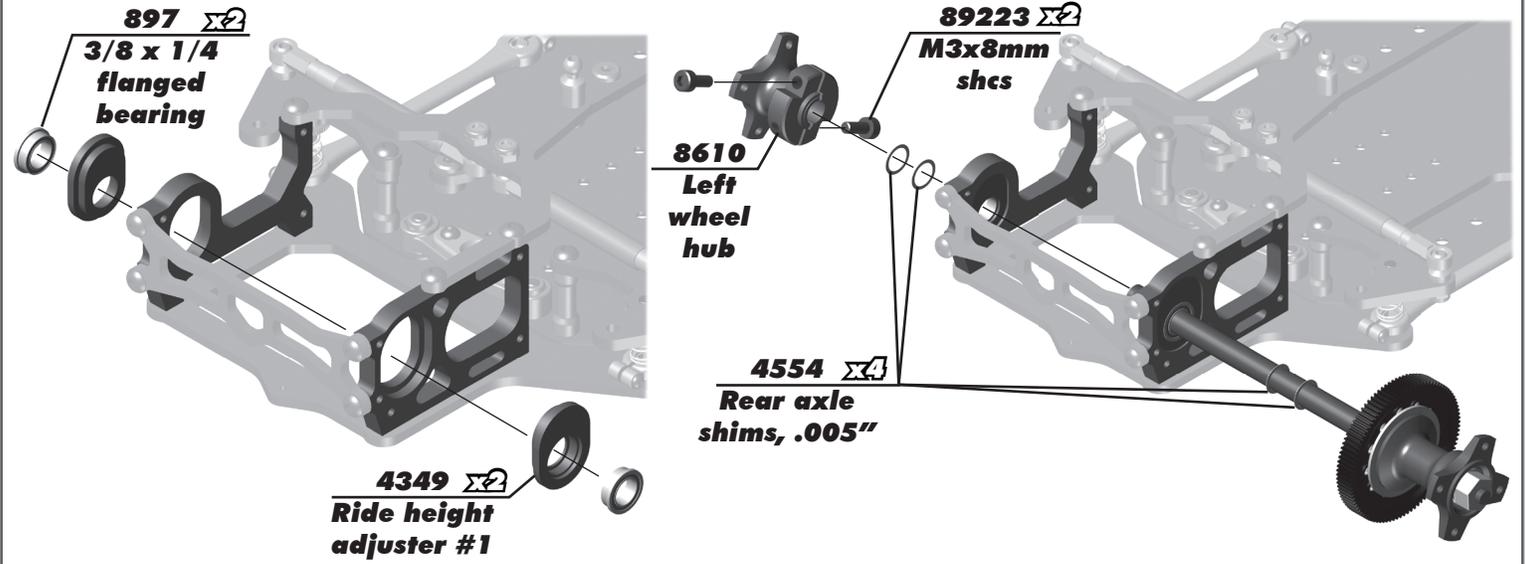
**4459**  $\Sigma 3$   
Bellville washer

**#6636**  
silicone grease

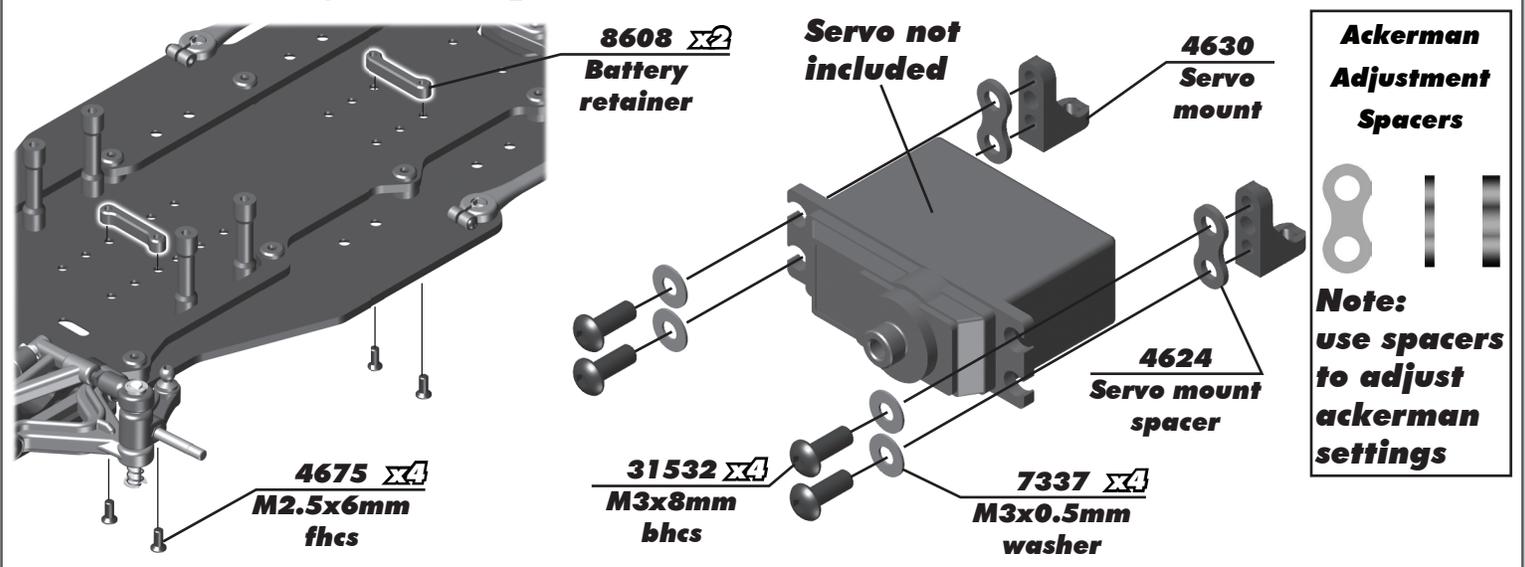
**6619**  $\times 12$   
1/8 carbide diff balls

**Bellville Washers**  
4555  
Diff thrust cone (silver)  
4185  
8-32 nylon locknut

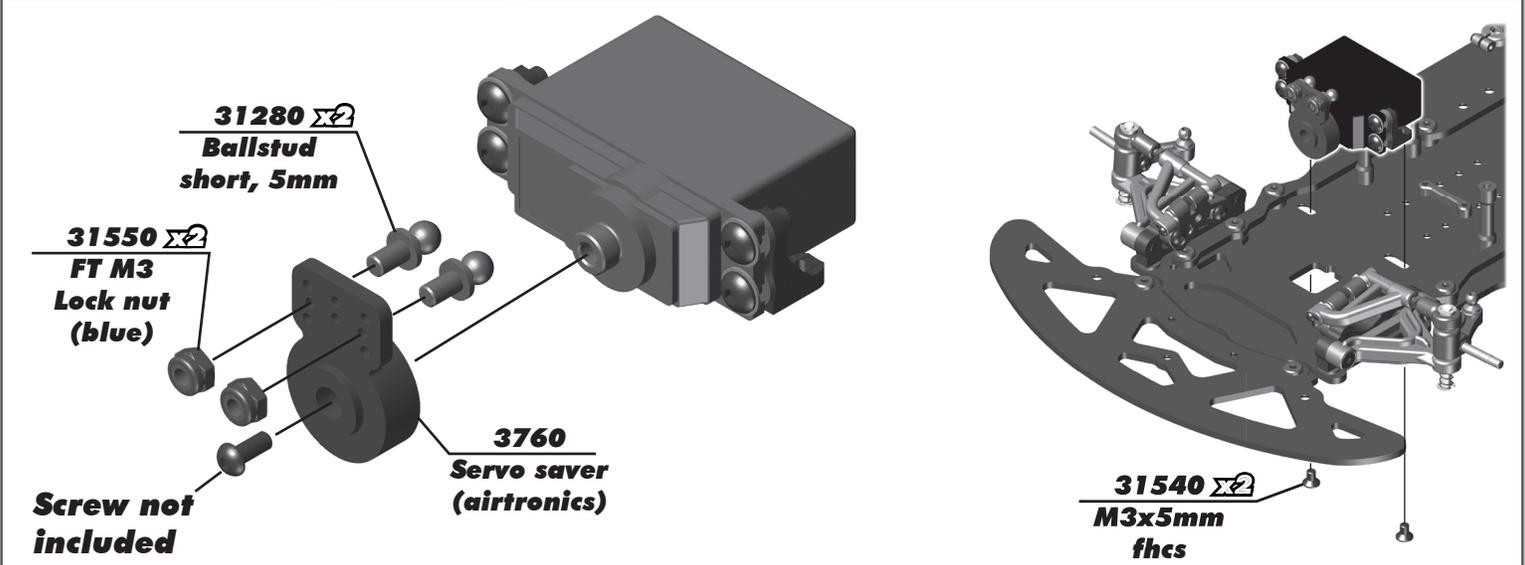
**:: Rear Axle Build - Bag D-DD - Step 2**



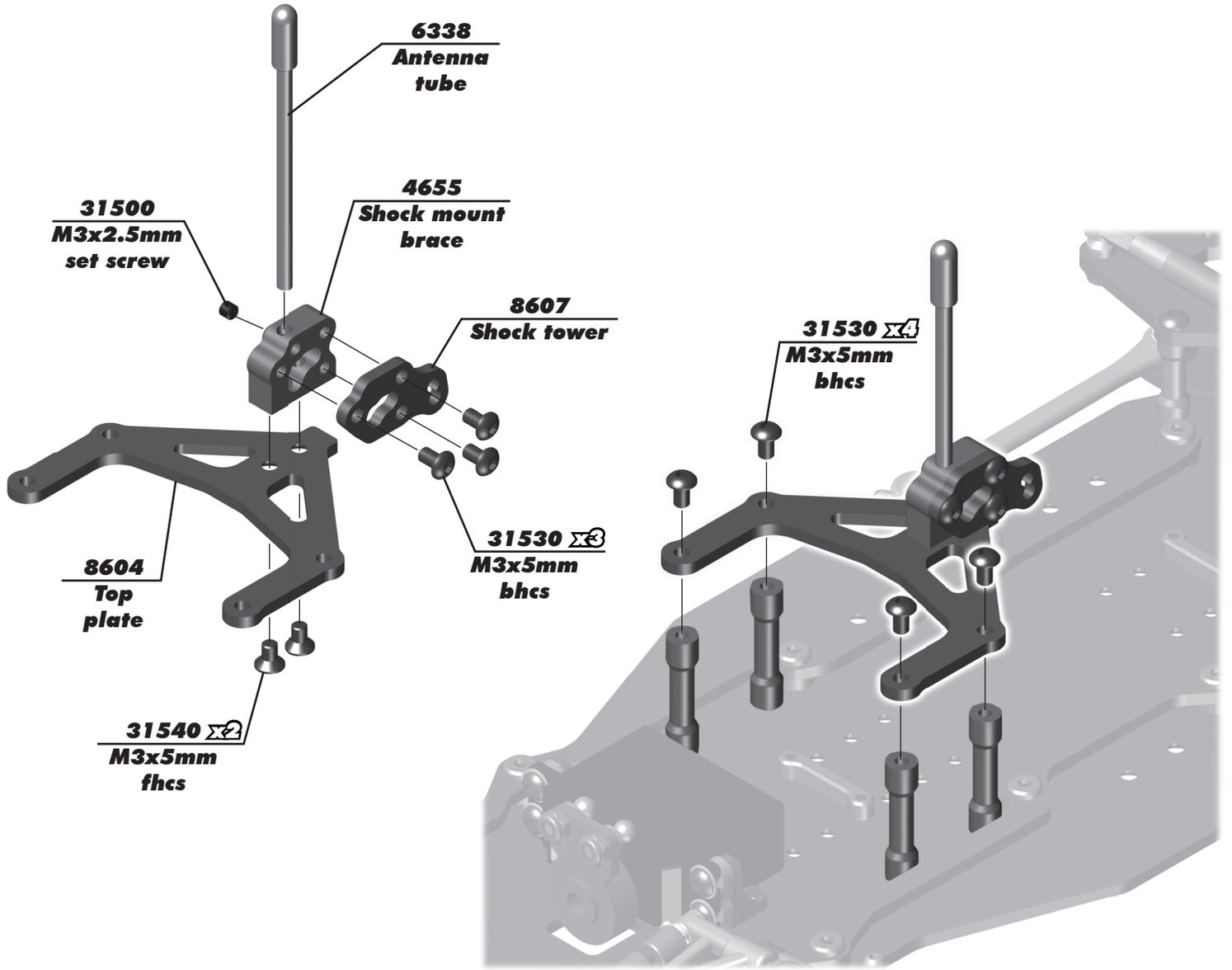
**:: Servo Build - Bag E-EE - Step 1**



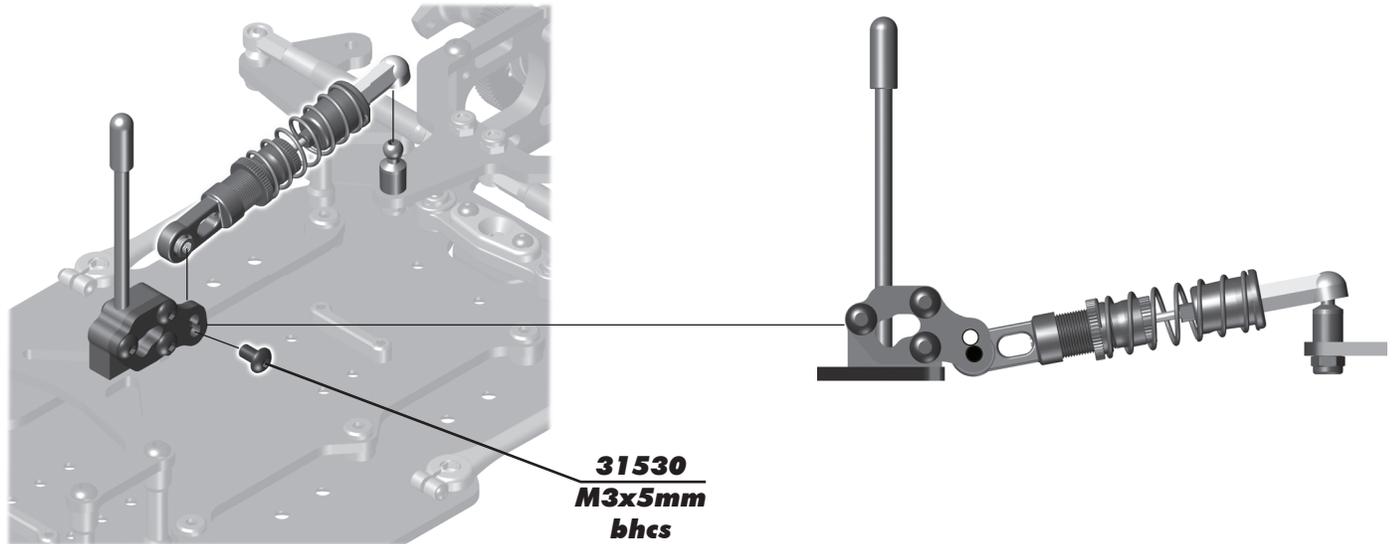
**:: Servo Build - Bag E-EE - Step 2**



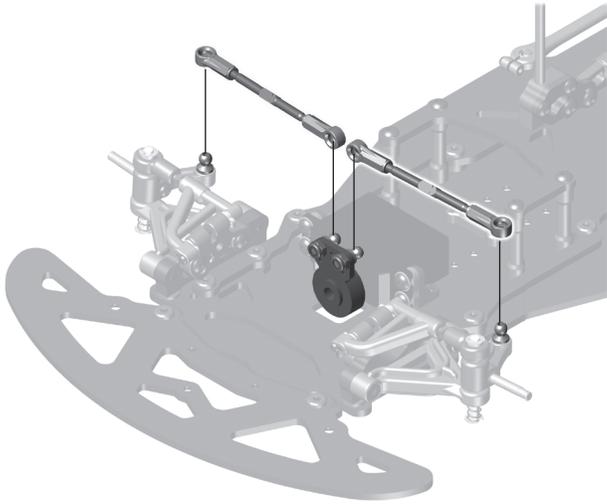
**:: Top Plate Build - Bag E-EE - Step 3**



**:: Center Shock Install - Bag E-EE - Step 4**



**:: Turnbuckles - Bag E-EE - Step 5**

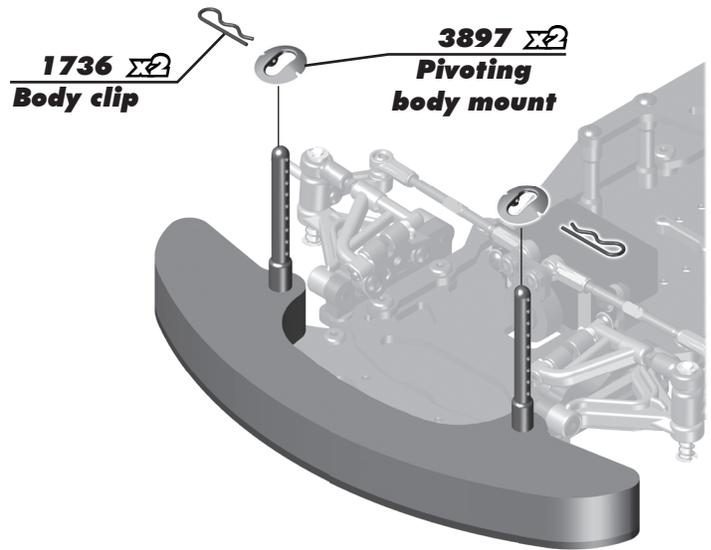
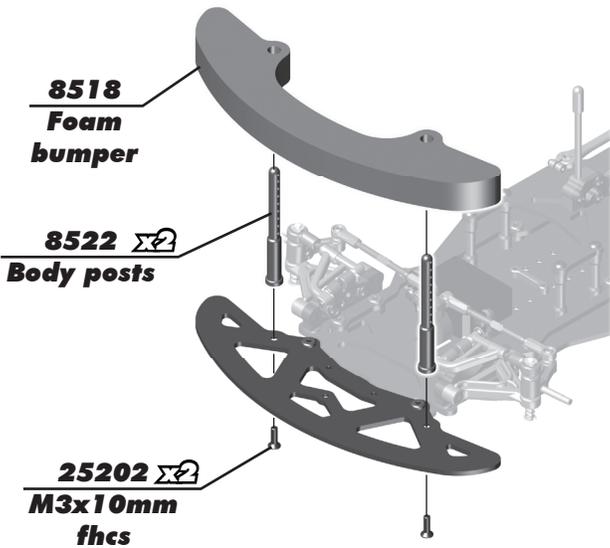


**!**  
Orient the notch to the left throughout the car. The notch indicates which end has the left hand threads!

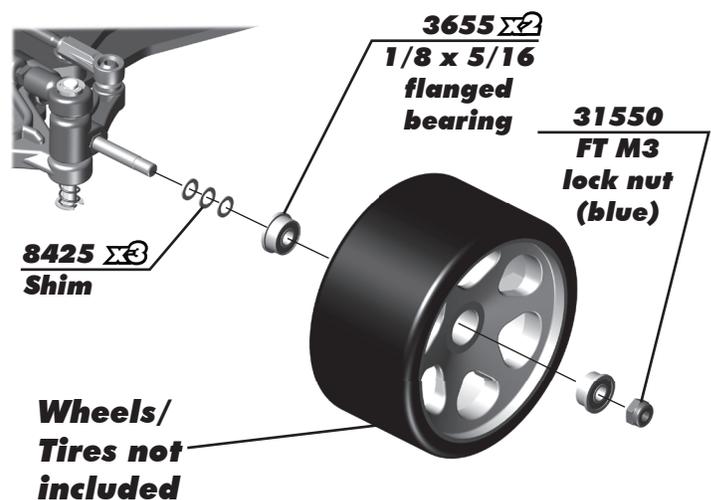
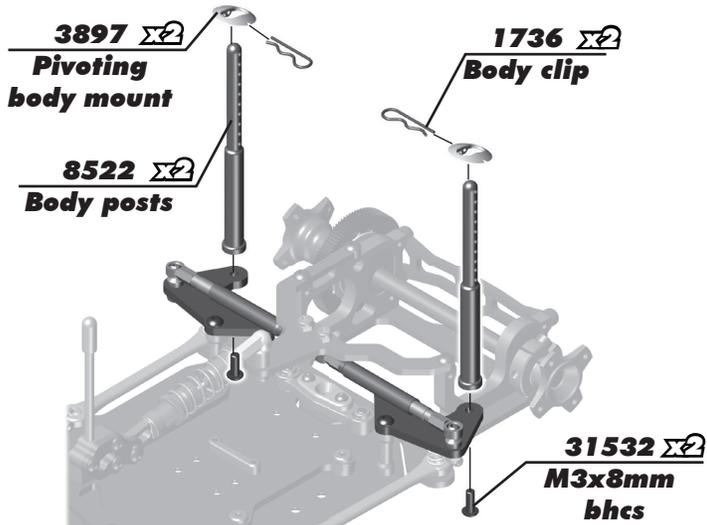


*It is important that the turnbuckle eyelets move freely once snapped on to the ballstud. If the fit is too tight, the car handling will be inconsistent. To check, grab turnbuckle eyelet with fingers and rotate the cup. If there is resistance, lightly squeeze ball cup with needle nose pliers as shown and test again. It is important that the ball cup be snapped onto the ballstud before squeezing with needle nose pliers. Be sure to check and adjust the fit for each ball cup that is installed.*

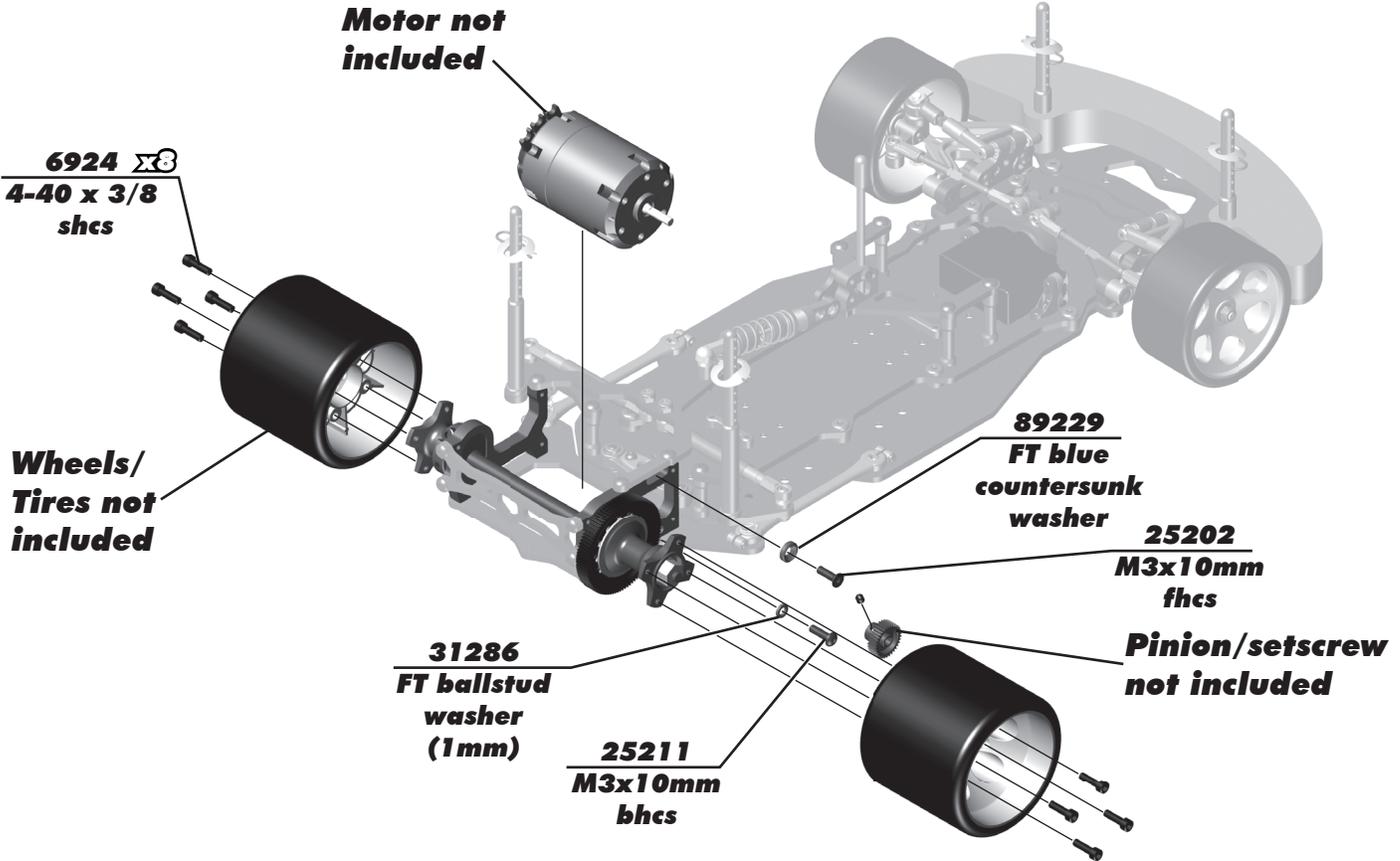
**:: Body Mounts Build - Bag E-EE - Step 6**



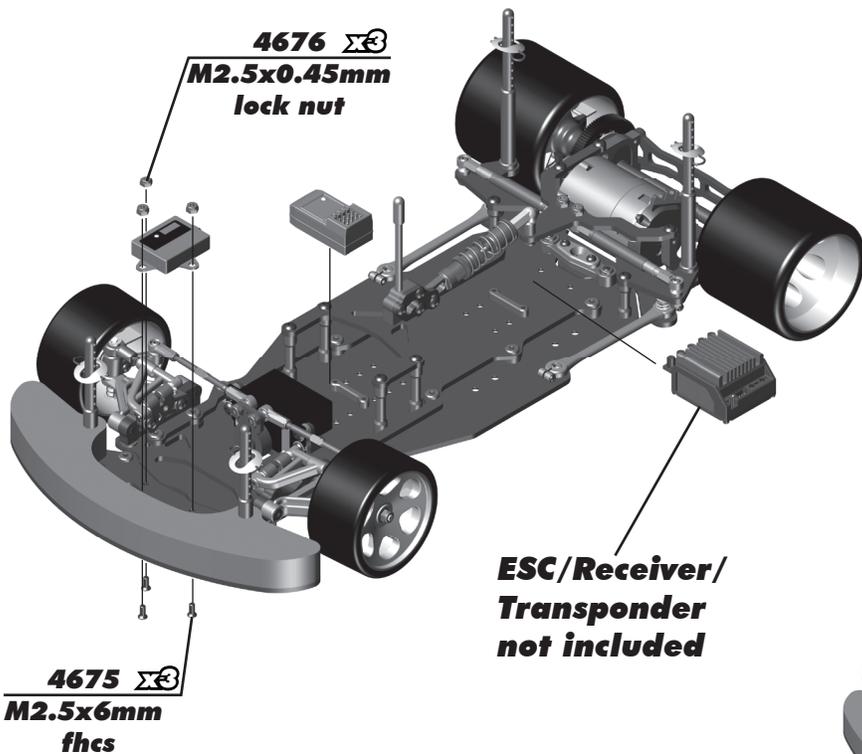
**:: Body Mounts Build / Front Wheel Install - Bag E-EE - Step 7**



**:: Rear Wheel / Motor Install - Bag E-EE - Step 8**

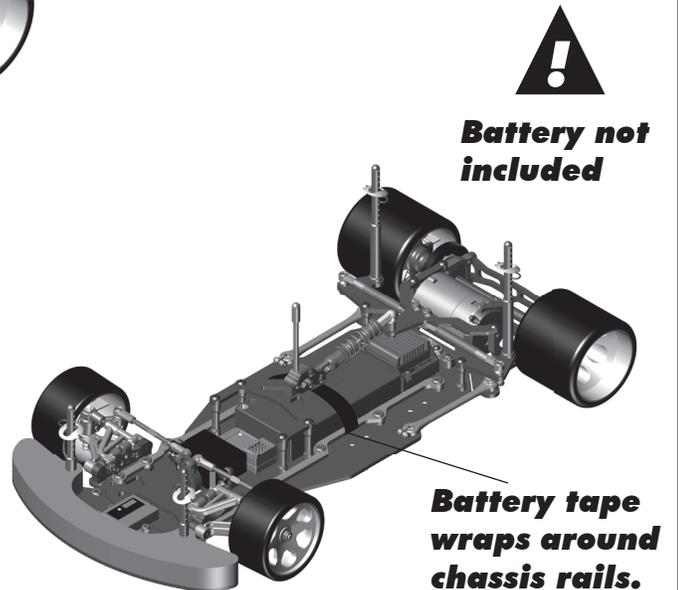


**:: Electronics Install - Bag E-EE - Step 9**



**!**

**Full size 2S LiPo Battery Installation:**  
Remove four BHCS (#31530, see page 10) from top plate standoffs and move top plate to install battery. Key top plate around battery and replace four BHCS to secure battery after taping to chassis with battery tape.



## **:: Tuning Tips**

### **Camber:**

*Camber is one of the most effective adjustments in tuning the car to the track conditions. In most situations only negative camber (where the top of the tire is leaning in) is recommended. The typical setting for camber in the front wheels is -1 degree. Adding more negative camber will give more steering, making the car feel more aggressive. Likewise, adding more positive camber will make the car more stable and be easier to drive.*

### **Caster:**

*Caster describes the angle of the kingpin from vertical when looking at the side of the car. Adding angle to the kingpin, or "caster", controls the amount of camber gain at the front wheels through steering angle. Negative caster means leaning the top of the kingpin toward the back of the car, and it adds negative camber on the outside front wheel during steering. Using less negative caster will give less steering entering the corner, making the car feel smoother and more stable. The standard setting of -3.25 degrees is good for most conditions, and -1.80 degrees is a good setting for extremely high traction conditions.*

### **Active Strut Upper Arm Mount:**

*The active strut system dynamically controls caster through suspension travel. The active strut upper arm mount adds an angle to the upper arm hinge pin, pointing the front of the pin down. This angle causes caster to become more positive as the suspension is compressed. Increasing the angle in the active strut upper arm mount will give more entry steering, but less mid-corner steering. In most conditions, the standard setting of 10 degrees is optimal. In bumpy, or very high bite conditions, using the 5 degree active strut position can help to make the car more consistent through the corner.*

### **Kingpin Damping:**

*Damping is added to the front suspension by applying silicone diff fluid to the outside of the kingpin below the bottom of the pivot ball in the lower suspension arm. This is a necessary and highly effective adjustment to the front suspension. Typical diff fluid weights for damping the kingpin spring vary from 5K to 60K. The standard starting point for silicone fluid is 30,000wt. With slower spec motors, and in high bite conditions, 60,000wt can help to make the car more consistent through the corner.*

### **Kingpin Spring:**

*The kit standard spring has a wire diameter of 0.018", and is optimal for most conditions. If the racing surface is bumpy or low grip, softer, 0.016" springs can help give the car more steering and consistency.*

### **Steering Blocks:**

*If a quicker or more aggressive steering feel is desired, you can use in-line steering blocks. To install them you will need AE# 8441, 8443, and 2x 6902 wheel bearings. They will change the wheel base of the car slightly.*

### **Front End Width:**

*Most times the standard location will be preferable. In high grip situations you can use the optional width holes to widen the front track of the car. This will reduce the cars tendency to roll over and reduce steering entering and mid corner.*

### **Wheel Base:**

*The front plate allows for three different wheel base options. Increasing the length of the wheel base usually makes the car more stable and it should not turn as tight a corner. One thing to keep in mind when changing the wheelbase is the weight bias is also shifting. So it may be necessary to move some weight to maintain the same distribution front to rear. The change in weight distribution could be a more noticeable change than the actual change in the wheel base.*

### **Rear Suspension Linkage:**

*It is extremely important that the rear pod linkage can pivot freely and doesn't have any bind. The best way to check the linkage is to remove the chassis brace from the chassis, then remove the bulkheads & upper pod plate from the lower pod plate. This makes it much easier to feel any binding. We recommend checking the rear linkage after a hard crash as the center pivot can shift slightly possibly causing rear suspension bind. If the suspension is not free, loosen the 2 screws that hold the center pivot to the chassis. Place the chassis and rear pod on a flat surface, carefully tighten each of the screws holding the center pivot. Now check the movement of the rear pod to be sure it's free.*

### **Side Damping:**

*Side damping is controlled by the damper tubes, and can be adjusted by changing the silicone "lube" that is applied to the damper shaft. Increasing the thickness of the lube will increase the side damping, slowing down the speed at which the rear end of the chassis will transition side-to-side. Increased side damping will help to make the car more stable in high grip conditions. The standard lube for is 1000cst, increasing to 2000cst or 3000cst will help to make the car more stable when the grip levels are higher.*

### **Center Spring:**

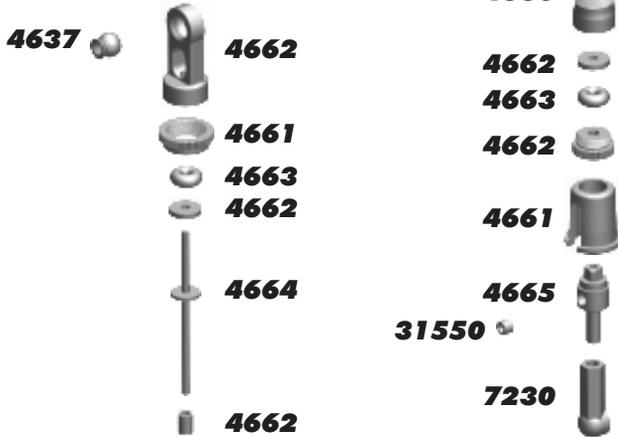
*The center spring controls the ride height of the chassis as it is loaded over bumps in the track, and as the car accelerates and decelerates. This adjustment is mainly relative to the mass of the chassis with all electronics and body included. The kit standard red spring is a good starting point for most racing conditions with 3.7V LiPo packs. In bumpier track conditions, a softer center spring and more droop can help give more grip to the rear end of the car.*

### **Center Damping:**

*Center damping controls the speed that the chassis will change ride height as it is loaded over bumps, and as the car accelerates and decelerates. Using between 25wt and 35wt is a good match for the standard red spring. Thicker oil will help to stiffen the rear of the car, giving it more mid-corner steering. Likewise, thinner oil can help give the car more rear grip in low bite track conditions.*

**:: Shocks**

|       |                         |    |
|-------|-------------------------|----|
| 4637  | 12R5 Pivot Ball         | 8  |
| 4660  | 12R5 Shock Body         | 1  |
| 4661  | 12R5 Shock Collar & Cup | 4  |
| 4662  | 12R5 Shock Rebuild Kit  | 1  |
| 4663  | Micro VCS O-Ring        | 8  |
| 4664  | 12R5 Thru Shaft         | 1  |
| 4665  | 12R5 Shock Rod End      | 1  |
| 4666  | 12R5 Shock Kit          | 1  |
| 7230  | Ball Cup                | 14 |
| 31500 | Set Screw 3x2.5mm       | 6  |



**:: Springs**

|      |                                     |   |
|------|-------------------------------------|---|
| 8427 | King Pin Springs (.018) - KIT       | 2 |
| 8429 | King Pin Springs (.020)             | 2 |
| 8431 | King Pin Springs (.022)             | 2 |
| 8433 | King Pin Springs (.024)             | 2 |
| 4475 | Micro VCS Springs Black (4.00 LB)   | 2 |
| 4476 | Micro VCS Springs Green (6.00 LB)   | 2 |
| 4641 | Side Springs Black (3.75 LB)        | 2 |
| 4642 | Side Springs Green (4.38 LB)        | 2 |
| 4643 | Side Springs Silver (5.00 LB)       | 2 |
| 4644 | Side Springs Blue (5.63 LB)         | 2 |
| 4645 | Side Springs Gold (6.25 LB) - KIT   | 2 |
| 8449 | Micro VCS Springs Copper (16 LB)    | 2 |
| 8451 | Micro VCS Springs Silver (8 LB)     | 2 |
| 8452 | Micro VCS Springs Blue (10 LB)      | 2 |
| 8453 | Micro VCS Springs Gold (12 LB)      | 2 |
| 8454 | Micro VCS Springs Red (14 LB) - KIT | 2 |



**:: Shock Fluid**

|      |                                  |      |
|------|----------------------------------|------|
| 5420 | 10 Weight Silicone Shock Fluid   | 2oz. |
| 5421 | 20 Weight Silicone Shock Fluid   | 2oz. |
| 5422 | 30 Weight Silicone Shock Fluid   | 2oz. |
| 5423 | 40 Weight Silicone Shock Fluid   | 2oz. |
| 5424 | 22.5 Weight Silicone Shock Fluid | 2oz. |
| 5425 | 80 Weight Silicone Shock Fluid   | 2oz. |
| 5426 | 27.5 Weight Silicone Shock Fluid | 2oz. |
| 5427 | 15 Weight Silicone Shock Fluid   | 2oz. |
| 5428 | 25 Weight Silicone Shock Fluid   | 2oz. |
| 5429 | 35 Weight Silicone Shock Fluid   | 2oz. |
| 5430 | 45 Weight Silicone Shock Fluid   | 2oz. |
| 5431 | 55 Weight Silicone Shock Fluid   | 2oz. |
| 5432 | 32.5 Weight Silicone Shock Fluid | 2oz. |
| 5433 | 37.5 Weight Silicone Shock Fluid | 2oz. |
| 5434 | 42.5 Weight Silicone Shock Fluid | 2oz. |
| 5435 | 50 Weight Silicone Shock Fluid   | 2oz. |
| 5436 | 60 Weight Silicone Shock Fluid   | 2oz. |
| 5437 | 70 Weight Silicone Shock Fluid   | 2oz. |
| 5438 | 47.5 Weight Silicone Shock Fluid | 2oz. |



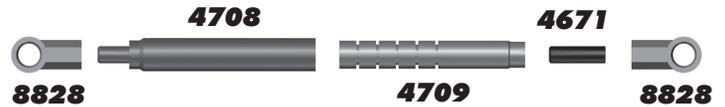
**:: Turnbuckles**

|       |   |     |
|-------|---|-----|
| 1402  | FT Blue Titanium Turnbuckles 1.375"     | Pr. |
| 1403  | FT Blue Titanium Turnbuckle 1.65"       | Pr. |
| 1405  | FT Blue Titanium Turnbuckle 1.875"      | Pr. |
| 1406  | FT Blue Titanium Turnbuckle 2.00" - Kit | Pr. |
| 1418  | FT Blue Titanium Turnbuckle 0.825"      | Pr. |
| 31305 | Turnbuckle Eyelet                       | 14  |



**:: Damper Tubes**

|      |                       |   |
|------|-----------------------|---|
| 4671 | M3x10mm Setscrew      | 6 |
| 4708 | Damper Tube           | 2 |
| 4709 | Damper Tube Shaft     | 2 |
| 8828 | Anti Roll Bar Cup Set | 1 |



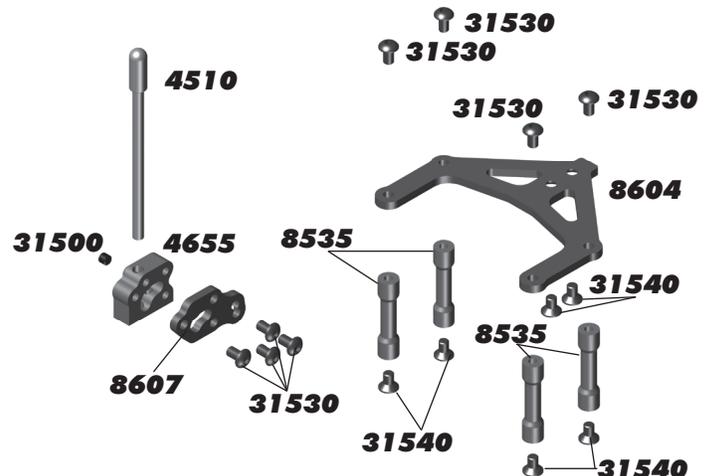
**:: Servo / Servo Saver**

|       |                             |     |
|-------|-----------------------------|-----|
| 3760  | Servo Saver, Airtronics     | 1   |
| 4624  | 12R5 Caster / Servo Spacer  | 2ea |
| 4630  | 12R5 Servo Mount            | 2   |
| 7337  | .250 x .125 x .015 Washer   | 4   |
| 25162 | Servo Saver, XP/Futaba      | 1   |
| 25167 | Servo Saver, Airtronics, JR | 1   |
| 31280 | 5mm Ballstud, Short         | 6   |
| 31532 | M3 x 8mm BHCS               | 6   |
| 31540 | M3 x 5mm FHCS               | 6   |
| 31550 | M3 Aluminum Lock Nut        | 6   |



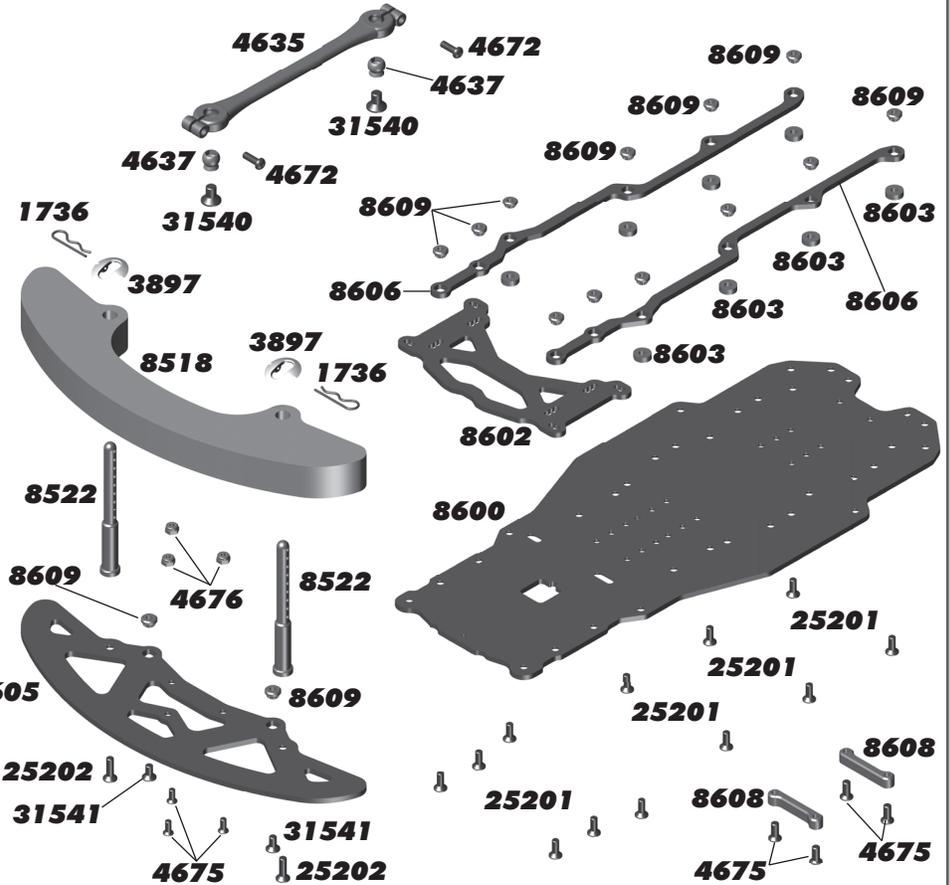
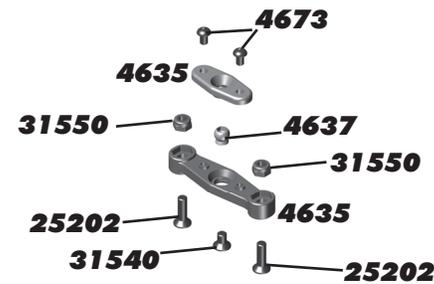
**:: Top Plate / Center Shock Mount**

|       |                                       |   |
|-------|---------------------------------------|---|
| 4510  | Antenna Rod, fiberglass, with end cap | 1 |
| 4655  | FT Shock Mount Brace                  | 1 |
| 8535  | FT Chassis Brace Standoff             | 4 |
| 8604  | 10R5.1 LiPo Top Plate                 | 1 |
| 8607  | 10R5.1 LiPo Shock Tower               | 1 |
| 31500 | M3 x 2.5mm Set Screw                  | 6 |
| 31530 | M3 x 5mm BHCS                         | 6 |
| 31540 | M3 x 5mm FHCS                         | 6 |



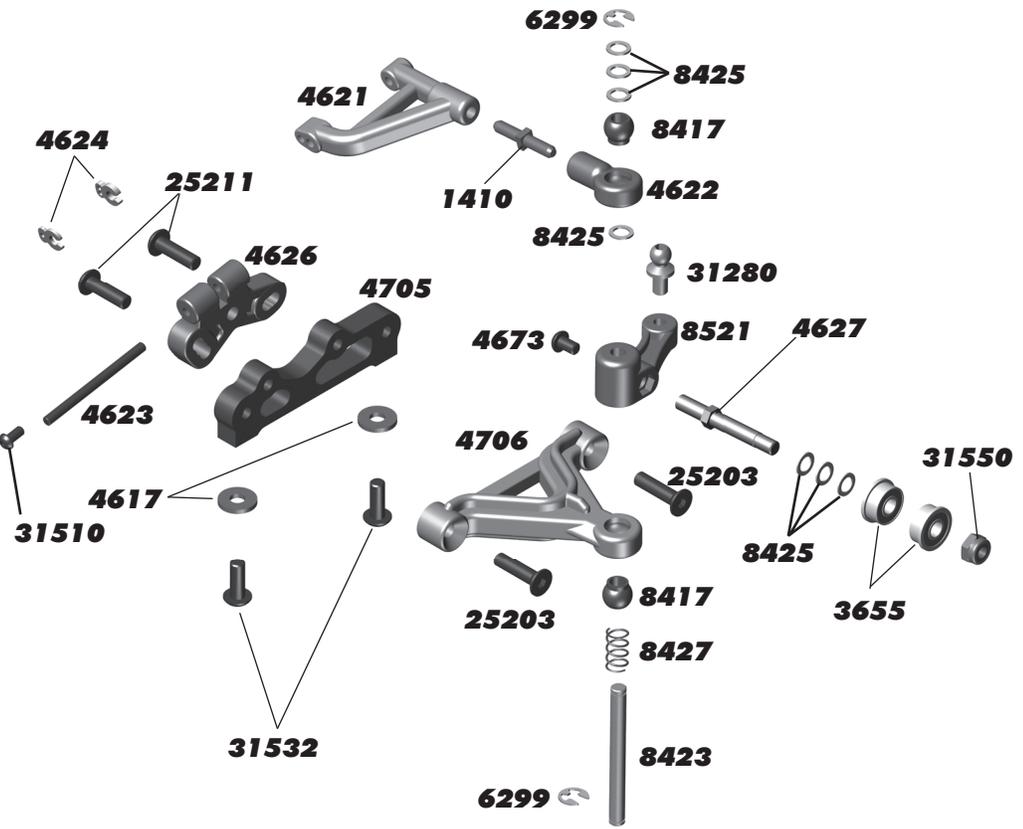
**:: Chassis / Pivots / Links / Bumper**

|       |                                     |    |
|-------|-------------------------------------|----|
| 1736  | FT Body Clips, metallic blue. Short | 6  |
| 3897  | Pivoting Body Mounts, 8 body clips  | 4  |
| 4635  | Pivot Brace/Pod Link Set            | 1  |
| 4637  | FT Pivot Ball                       | 8  |
| 4672  | M2 x 6mm BHCS                       | 6  |
| 4673  | M2.5 x 4mm BHCS                     | 6  |
| 4675  | M2.5 x 6mm FHCS                     | 6  |
| 4676  | M2.5 x 0.45mm Locknut               | 6  |
| 8518  | Foam Front Bumper                   | 1  |
| 8522  | Front and Rear Body Post Set        | 1  |
| 8600  | 10R5.1 Chassis                      | 1  |
| 8602  | 10R5.1 Arm Mount Plate              | 1  |
| 8603  | Rail Shim                           | 8  |
| 8605  | 10R5.1 Front Bumper                 | 1  |
| 8606  | Chassis Rail                        | 2  |
| 8608  | Battery Retainer                    | 2  |
| 8609  | Nut Insert                          | 14 |
| 25201 | M3 x 8mm FHCS                       | 20 |
| 25202 | M3 x 10mm FHCS                      | 20 |
| 31540 | M3 x 5mm FHCS                       | 6  |
| 31541 | M3 x 6mm FHCS                       | 6  |
| 31550 | FT M3 Locknut, blue aluminum        | 6  |



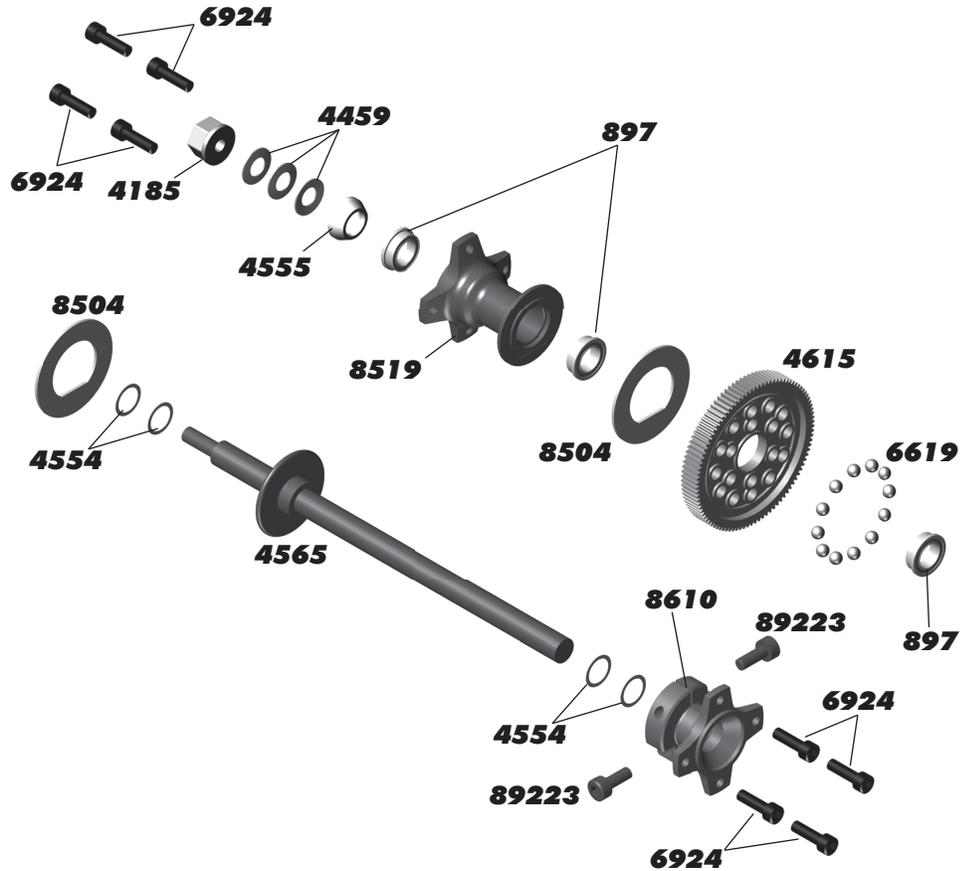
**:: Front Bulkhead**

|       |  |      |
|-------|--|------|
| 1410  | FT Ti Turnbuckle, .630", blue                    | 2    |
| 3655  | Bearing, .1/8 x 5/16                             | 2    |
| 4617  | Bulkhead Shims                                   | 4ea. |
| 4621  | Upper Arm  | Pr.  |
| 4622  | Upper Arm Eyelet                                 | 4    |
| 4623  | Upper Hinge Pin                                  | 2    |
| 4624  | Caster/Servo Spacer                              | 2ea. |
| 4626  | Upper Arm Mount                                  | 2    |
| 4627  | Front Axle                                       | 2    |
| 4673  | M2.5 x 4mm BHCS                                  | 6    |
| 4705  | Front Bulkhead                                   | 1    |
| 4706  | Lower Arm  | Pr.  |
| 6299  | E-Clip, 1/8"                                     | 12   |
| 6902  | Bearing, 3/16 X 5/16, flanged, use w/8441, 8443b | 2    |
| 8417  | Pivot Ball                                       | 4    |
| 8423  | Kingpin and E Clips                              | 2    |
| 8425  | Kingpin Shim                                     | 10   |
| 8427  | King Pin Springs (.018)                          | 2    |
| 8441  | Inline Steering Block, use w/6902, 8443b         | Pr.  |
| 8443B | FT Blue Alum. Inline Front Axle use w/6902, 8441 | 2    |
| 8521  | Steering Block Set                               | 2    |
| 25203 | M3 x 12mm FHCS                                   | 20   |
| 25211 | M3 x 10mm BHCS                                   | 20   |
| 31280 | Ballstud, short, 5mm                             | 6    |
| 31510 | M2 x 4mm BHCS                                    | 6    |
| 31532 | M3 x 8mm BHCS                                    | 6    |
| 31550 | FT M3 Locknut, blue aluminum                     | 6    |



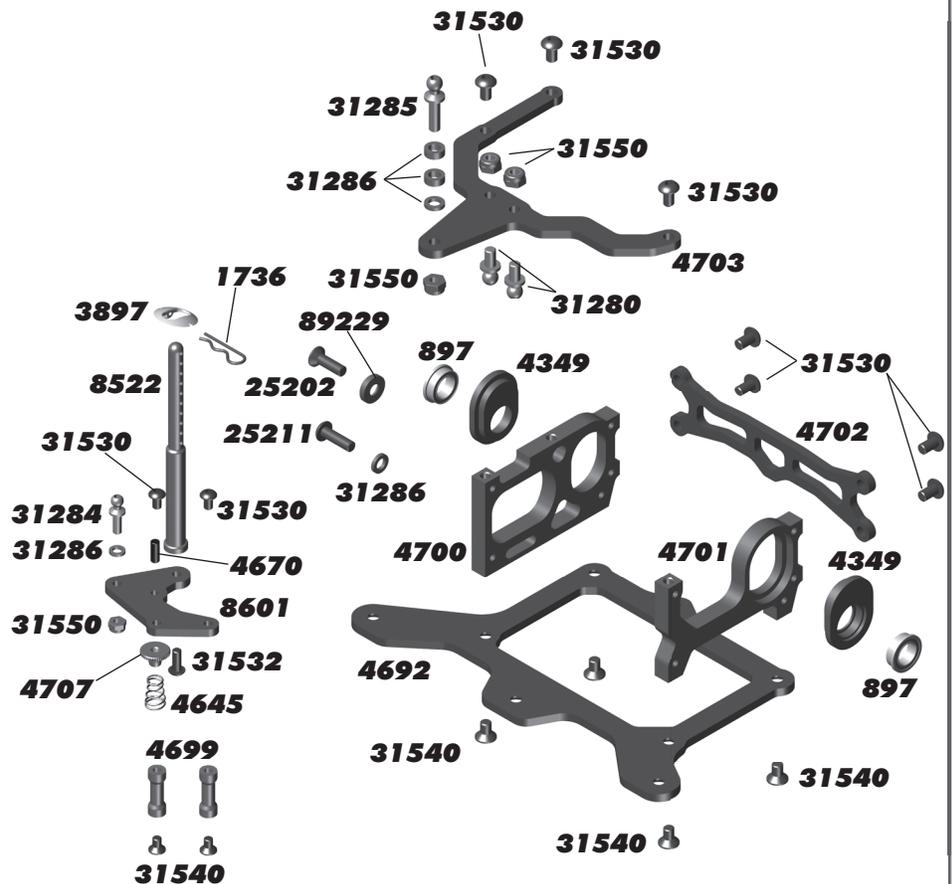
**:: Rear Axle / Differential**

|       |                               |    |
|-------|-------------------------------|----|
| 897   | Bearing, 3/8 x 1/4, flanged   | 2  |
| 4185  | 8-32 Nylon Locknut            | 6  |
| 4459  | Belleville Washer             | 3  |
| 4462  | 100T, 64 pitch Spur Gear      | 1  |
| 4554  | Rear Axle .005 Shim           | 6  |
| 4555  | Diff Thrust Cone, silver      | 1  |
| 4565  | FT Rear Axle                  | 1  |
| 4615  | 96T, 64 pitch Spur Gear - Kit | 1  |
| 6619  | FT 1/8" Carbide Diff Balls    | 8  |
| 6924  | 4-40 x 3/8" SHCS              | 6  |
| 8504  | D-Drive Ring, for axle        | 2  |
| 8519  | Right Wheel Hub               | 1  |
| 8610  | 10R5.1 Left Wheel Hub         | 1  |
| 89223 | M3x8mm SHCS                   | 10 |



**:: Rear Bulkhead**

|       |                                     |    |
|-------|-------------------------------------|----|
| 897   | Bearing, 3/8 x 1/4, flanged         | 2  |
| 1736  | FT Body Clips, metallic blue. Short | 6  |
| 3897  | Pivoting Body Mounts, 8 body clips  | 4  |
| 4348  | Axle Height Adjuster, #0            | 2  |
| 4349  | Axle Height Adjuster, #1 - Kit      | 2  |
| 4350  | Axle Height Adjuster, #2            | 2  |
| 4351  | Axle Height Adjuster, #4            | 2  |
| 4645  | Side Spring, Gold, 6.25 lbs         | 2  |
| 4670  | M3 x 8mm Set Screw                  | 6  |
| 4692  | Lower Pod Plate                     | 1  |
| 4699  | 12R5.1 LiPo Standoff                | 5  |
| 4700  | Motor Mount                         | 1  |
| 4701  | LR Bulkhead                         | 1  |
| 4702  | Motor Mount Brace                   | 1  |
| 4703  | Upper Pod Plate                     | 1  |
| 4707  | Side Spring Retainer                | 2  |
| 8601  | 10R5.1 Chassis Brace                | 2  |
| 25202 | M3 x 10mm FHCS                      | 20 |
| 25211 | M3 x 10mm BHCS                      | 20 |
| 31280 | Ballstud, short, 5mm                | 6  |
| 31284 | Ballstud, long, 8mm                 | 6  |
| 31285 | Ballstud, long, 10mm                | 6  |
| 31286 | FT Ballstud Washer, aluminum Set    | 1  |
| 31530 | M3 x 5mm BHCS                       | 6  |
| 31532 | M3 x 8mm BHCS                       | 6  |
| 31540 | M3 x 5mm FHCS                       | 6  |
| 31550 | FT M3 Locknut, blue aluminum        | 6  |
| 89229 | FT Blue Countersunk Washer          | 10 |



## :: Reedy Motors and ESC's

|       |  |   |
|-------|--|---|
| 940   | Reedy Sonic 21.5 Stock (sensored)              | 1 |
| 941   | Reedy Sonic 17.5 Stock (sensored)              | 1 |
| 941S  | Sonic 540 17.5 Replacement Stator              | 1 |
| 942   | Reedy Sonic 13.5 Stock (sensored)              | 1 |
| 943   | Reedy Sonic 10.5 Modified (sensored)           | 1 |
| 944   | Reedy Sonic 9.5 Modified (sensored)            | 1 |
| 945   | Reedy Sonic 8.5 Modified (sensored)            | 1 |
| 946   | Reedy Sonic 7.5 Modified (sensored)            | 1 |
| 947   | Reedy Sonic 6.5 Modified (sensored)            | 1 |
| 948   | Reedy Sonic 5.5 Modified (sensored)            | 1 |
| 949   | Reedy Sonic 5.0 Modified (sensored)            | 1 |
| 950   | Reedy Sonic 4.5 Modified (sensored)            | 1 |
| 951   | Reedy Sonic 4.0 Modified (sensored)            | 1 |
| 952   | Reedy Sonic 3.5 Modified (sensored)            | 1 |
| 954   | Sonic 540 Stock Rotor 12.3 x 24.2 (7.25)       | 1 |
| 955   | Sonic 540 Stock Rotor 12.3 x 25.0 (7.25)       | 1 |
| 956   | Sonic 540 Stock Rotor 12.5 x 25.0 (7.25)       | 1 |
| 957   | Sonic 540 Modified Rotor 12.2 x 25.0 (5.0)     | 1 |
| 958   | Sonic 540 Modified Rotor 12.5 x 25.0 (5.0)     | 1 |
| 987   | Sonic 540 Modified Rotor 12.5 x 25.0 (5.0)     | 1 |
| 29225 | Sonic 540 9.5/LRP SXX Competition V2 ESC Combo | 1 |
| 29226 | Sonic 540 8.5/LRP SXX Competition V2 ESC Combo | 1 |
| 29227 | Sonic 540 7.5/LRP SXX Competition V2 ESC Combo | 1 |
| 29228 | Sonic 540 6.5/LRP SXX Competition V2 ESC Combo | 1 |
| 29229 | Sonic 540 5.5/LRP SXX Competition V2 ESC Combo | 1 |
| 29230 | Sonic 540 5.0/LRP SXX Competition V2 ESC Combo | 1 |
| 29234 | Sonic 540 21.5/LRP SXX Stock Spec V2 ESC Combo | 1 |
| 29235 | Sonic 540 17.5/LRP SXX Stock Spec V2 ESC Combo | 1 |
| 29236 | Sonic 540 13.5/LRP SXX Stock Spec V2 ESC Combo | 1 |
| 29237 | Sonic 540 10.5/LRP SXX Stock Spec V2 ESC Combo | 1 |
| 29238 | Sonic 540 9.5/LRP SXX TC-Spec V2 ESC Combo     | 1 |
| 29239 | Sonic 540 8.5/LRP SXX TC-Spec V2 ESC Combo     | 1 |
| 29240 | Sonic 540 7.5/LRP SXX TC-Spec V2 ESC Combo     | 1 |
| 29241 | Sonic 540 6.5/LRP SXX TC-Spec V2 ESC Combo     | 1 |
| 29242 | Sonic 540 5.5/LRP SXX TC-Spec V2 ESC Combo     | 1 |
| 29243 | Sonic 540 5.0/LRP SXX TC-Spec V2 ESC Combo     | 1 |
| 29244 | Sonic 540 4.5/LRP SXX TC-Spec V2 ESC Combo     | 1 |
| 29245 | Sonic 540 4.0/LRP SXX TC-Spec V2 ESC Combo     | 1 |
| 29246 | Sonic 540 3.5/LRP SXX TC-Spec V2 ESC Combo     | 1 |

## :: Reedy Accessories

|     |                                      |   |
|-----|--------------------------------------|---|
| 605 | Motor Cooling Fans (2)               | 1 |
| 606 | Charge Harness 2S Saddle Pack 4mm    | 1 |
| 607 | Charge Harness 2S Standard Pack 4mm  | 1 |
| 651 | Battery Bars (8)                     | 1 |
| 653 | Battery Bars (100)                   | 1 |
| 654 | 4.0mm plugs (2M, 2F)                 | 1 |
| 655 | 4.0mm plugs (2M, 10F)                | 1 |
| 656 | 4.0mm plugs (10F)                    | 1 |
| 658 | 4.0mm plugs (10M)                    | 1 |
| 659 | 4.0mm plugs (30M)                    | 1 |
| 660 | 3.5mm plugs (3M, 3F)                 | 1 |
| 661 | 3.5mm plugs (10F)                    | 1 |
| 663 | 3.5mm plugs (10M)                    | 1 |
| 664 | 3.5mm plugs (30M)                    | 1 |
| 716 | Reedy 09 Decal Set                   | 1 |
| 959 | Sonic 540/550 Sensor w/Bearing       | 1 |
| 960 | Sonic 540/550 Insulator Set (2 pcs.) | 1 |
| 961 | Sonic 540/550 Timing Cap w/Screws    | 1 |
| 962 | Sonic 540 Case Screws (3 pcs.)       | 1 |
| 972 | Sonic 540 Steel Bearing Set          | 1 |
| 973 | Sonic 540 Ceramic Bearing Set        | 1 |
| 978 | Flat Sensor Wire 70mm                | 1 |
| 979 | Flat Sensor Wire 110mm               | 1 |
| 980 | Flat Sensor Wire 150mm               | 1 |
| 981 | Flat Sensor Wire 200mm               | 1 |
| 982 | Flat Sensor Wire 270mm               | 1 |
| 992 | Sonic 540 Rotor Spacers              | 1 |

## :: Reedy Batteries and Chargers

|     |  |   |
|-----|--|---|
| 302 | AA Alkaline 1.5V (4)                           | 1 |
| 303 | AA 2700mAh NiMH 1.2V Rechargeable (4)          | 1 |
| 307 | LiFe Pro RX Battery 250mAh 6.6V                | 1 |
| 600 | LiPo 65C 6500mAh 3.7V                          | 1 |
| 604 | Reedy 526-S AC/DC 2S-6S Cell LiPo/LiFe Charger | 1 |
| 629 | LiPo 60C 5500mAh 3.7V                          | 1 |
| 632 | TX Lightweight Battery 1350mAh 11.1V           | 1 |
| 633 | TX Battery - 3PK, M11 3000mAh 11.1V            | 1 |
| 634 | TX Battery - Helios, Z1 2400mAh 11.1V          | 1 |
| 637 | TX Battery - M11X 2500mAh 7.4V                 | 1 |

## :: LRP Speed Controls

|          |                      |   |
|----------|----------------------|---|
| LRP80230 | Spin Super Brushless | 1 |
| LRP80250 | Spin Pro Brushless   | 1 |
| LRP80960 | Flow Competition     | 1 |
| LRP80970 | Flow Works Team      | 1 |

## :: LRP Brushless Motors / Combos

|          |                           |   |
|----------|---------------------------|---|
| LRP50430 | Vector K4 6.5 Turn        | 1 |
| LRP50440 | Vector K4 8.5 Turn        | 1 |
| LRP50450 | Vector K4 10.5 Turn       | 1 |
| LRP50460 | Vector K4 13.5 Turn       | 1 |
| LRP50480 | Vector K4 17.5 Turn       | 1 |
| LRP50643 | Vector X-20 10.5 Turn     | 1 |
| LRP50644 | Vector X-20 9.5 Turn      | 1 |
| LRP50654 | Vector X-20 8.5 Turn      | 1 |
| LRP50664 | Vector X-20 7.5 Turn      | 1 |
| LRP50674 | Vector X-20 6.5 Turn      | 1 |
| LRP50684 | Vector X-20 5.5 Turn      | 1 |
| LRP50689 | Vector X-20 5.0 Turn      | 1 |
| LRP50694 | Vector X-20 4.5 Turn      | 1 |
| LRP50704 | Vector X-20 4.0 Turn      | 1 |
| LRP80741 | Spin Super / K4 17.5 Turn | 1 |
| LRP80742 | Spin Super / K4 13.5 Turn | 1 |
| LRP80743 | Spin Super / K4 10.5 Turn | 1 |

## :: LRP Misc.

|           |                                     |   |
|-----------|-------------------------------------|---|
| LRP50621  | X-12 Optional Ceramic Ball Bearings | 1 |
| LRP50622  | X-12 Small Parts Set                | 1 |
| LRP50623  | X-12 PreciSensor Unit               | 1 |
| LRP50626  | X-12 Alum Rear Cover                | 1 |
| LRP50632  | X-12 12.0mm Sintered Rotor          | 1 |
| LRP50634  | X-12 13.0mm Sintered Rotor          | 1 |
| LRP50635  | X-12 Stock Spec Rotor 12.45mm       | 1 |
| LRP50636  | Works Team X-12 12.0mm Rotor        | 1 |
| LRP50637  | Works Team X-12 12.5mm Rotor        | 1 |
| LRP50638  | Works Team X-12 13.0mm Rotor        | 1 |
| LRP50639  | X-12 Stock Spec 1S LiPo Rotor       | 1 |
| LRP80135  | BEC Stabilizing Capacitor           | 1 |
| LRP82512  | SXX Low Profile Fan                 | 1 |
| LRP82515  | 30mm Motor Fan/Clamp, Gunmetal      | 1 |
| LRP82520  | Radical Cooling Set, Blue           | 1 |
| LRP82530  | SXX Power Cap 3.7-4.8V              | 1 |
| LRP82531  | SXX Power Cap 6.0-7.4V              | 1 |
| LRP819307 | 70mm High Flex Sensor Wire          | 1 |
| LRP819310 | 100mm High Flex Sensor Wire         | 1 |
| LRP819315 | 150mm High Flex Sensor Wire         | 1 |
| LRP819320 | 200mm High Flex Sensor Wire         | 1 |

**:: LRP Chargers, Power Supply, Balancer**

|          |                                   |   |
|----------|-----------------------------------|---|
| LRP41281 | Quadra Pro 2 Charger              | 1 |
| LRP41555 | Pulsar Touch Competition Charger  | 1 |
| LRP42103 | LiPo Balance Board XH             | 1 |
| LRP42104 | LiPo Balance Board FP/TP          | 1 |
| LRP42105 | LiPo Balance Board PQ             | 1 |
| LRP42305 | Pulsar Touch Temperature Sensor   | 1 |
| LRP42306 | Pulsar Touch Sensor Wire Splitter | 1 |
| LRP43200 | LRP Competition 20A Power Supply  | 1 |
| LRP45200 | LiPo Parallel Balancer            | 1 |
| LRP65800 | High Power Solder Station         | 1 |
| LRP65802 | Soldering Tip 5mm                 | 1 |
| LRP65803 | Soldering Tip 1.2mm               | 1 |
| LRP65804 | Soldering Handle                  | 1 |
| LRP81801 | LRP Speedo Updater Spec 2         | 1 |

**:: XP Electronics**

|       |                               |   |
|-------|-------------------------------|---|
| 29125 | S1903MG Servo                 | 1 |
| 29126 | S2008MG Servo                 | 1 |
| 29143 | XP SC700-BL Brushless ESC     | 1 |
| 29145 | XP SC1300-BL Brushless ESC    | 1 |
| 29166 | XP DS1313 Digital Servo       | 1 |
| 29167 | XP DS1015 Digital Servo       | 1 |
| 29209 | Gear Set, DS1313              | 1 |
| 29210 | Gear Set, DS1015              | 1 |
| 29211 | Servo Case, DS1313/DS1015     | 1 |
| 29212 | Accessory Pack, DS1313/DS1015 | 1 |
| 29217 | TRS402SSi 2.4GHz 4Ch Receiver | 1 |
| 29218 | XP2-SSi 2.4GHz Radio System   | 1 |
| 29221 | XP3-SS 2.4GHz Radio System    | 1 |
| 29222 | TRS401SS 2.4GHz 4Ch Receiver  | 1 |

**:: Apparel**

|         |  |     |
|---------|--|-----|
| SP35**  | Reedy 09' White T-Shirt (M, L, XL, 2XL, 3XL)                         | 1   |
| SP36**  | Reedy 09' Black T-Shirt (M, L, XL, 2XL, 3XL)                         | 1   |
| SP37**  | Reedy 2012 T-shirt - Black (S, M, L, XL, 2XL, 3XL)                   | 1   |
| SP38**  | Reedy Trucker Hat  | 1   |
| SP39**  | Reedy Patch  | 1   |
| SP66**  | AE Stencil Blue T-Shirt (S, M, L, XL, 2-6XL)                         | 1   |
| SP67**  | AE Stencil Gray Sweatshirt (S, M, L, XL, 2XL, 3XL)                   | 1   |
| SP69**  | AE 26 Time World Championship T-Shirt, Black (S, M, L, XL, 2XL, 3XL) | 1   |
| SP70**  | Associated Windbreaker (S, M, L, XL, 2XL, 3XL)                       | 1   |
| SP71**  | Associated Winter Jacket (S, M, L, XL, 2XL)                          | 1   |
| SP73**  | AE Long Sleeve T-Shirt (S, M, L, XL, 2XL)                            | 1   |
| SP74**  | AE White T-Shirt (S, M, L, XL, 2XL, 3XL, 4XL)                        | 1   |
| SP75**  | AE Blue T-Shirt (S, M, L, XL, 2-6XL)                                 | 1   |
| SP76**  | AE Black T-Shirt (S, M, L, XL, 2XL, 3XL, 4XL)                        | 1   |
| SP77**  | AE 2012 T-Shirt, Blue (S, M, L, XL, 2XL, 3XL)                        | 1   |
| SP78**  | AE 2012 T-Shirt, White (S, M, L, XL, 2XL, 3XL)                       | 1   |
| SP79**  | AE 2012 T-Shirt, Black (S, M, L, XL, 2XL, 3XL)                       | 1   |
| SP411S  | AE Hat 11' Flat Bill Black S/M                                       | 1   |
| SP411L  | AE Hat 11' Flat Bill Black L/XL                                      | 1   |
| SP413S  | 26 Time World Championship Hat S/M                                   | 1   |
| SP413L  | 26 Time World Championship Hat L/XL                                  | 1   |
| SP417   | 1/10 FT Motor Bag  | 1   |
| SP418   | Factory Team 1/10 Car Carrier Bag                                    | 1   |
| SP420** | AE Pit Gloves (M, L, XL)   | Pr. |
| SP421S  | AE 2012 Hat, Black, Flat Bill, S/M                                   | 1   |
| SP421L  | AE 2012 Hat, Black, Flat Bill, L/XL                                  | 1   |
| SP422S  | AE 2012 Hat, Black, Curved Bill, S/M                                 | 1   |
| SP422L  | AE 2012 Hat, Black, Curved Bill, L/XL                                | 1   |
| SP423S  | AE 2012 Hat, White, Flat Bill, S/M                                   | 1   |
| SP423L  | AE 2012 Hat, White, Flat Bill, L/XL                                  | 1   |
| SP424S  | AE 2012 Hat, White, Curved Bill, S/M                                 | 1   |
| SP424L  | AE 2012 Hat, White, Curved Bill, L/XL                                | 1   |
| 715     | Reedy 2009 Track Banner  | 1   |
| 8611    | RC10R5.1 Decal Sheet   | 1   |
| 110684  | Team Associated Track Banner   | 1   |

\*\* Use part number plus the desired size when ordering!

**:: Tools**

|      |   |    |
|------|---|----|
| 1111 | FT Turnbuckle Wrench  | 1  |
| 1450 | FT Ride Height Gauge  | 1  |
| 1541 | FT Hex Driver Set, (7 pcs)  | 1  |
| 1542 | FT .050" Silver Hex Driver  | 1  |
| 1543 | FT 1/16" Black Hex Driver   | 1  |
| 1544 | FT 1.5mm Purple Hex Driver  | 1  |
| 1545 | FT 5/64" Blue Hex Driver  | 1  |
| 1546 | FT 3/32" Gold Hex Driver  | 1  |
| 1547 | FT 2.5mm Green Hex Driver   | 1  |
| 1548 | FT 3mm Red Hex Driver   | 1  |
| 1551 | FT Screwdriver Set  | 1  |
| 1553 | FT Phillips Silver Screwdriver  | 1  |
| 1554 | FT Silver Spring Hook Tool  | 1  |
| 1561 | FT Nut Driver Set, (6 pcs)  | 1  |
| 1562 | FT 3/16" Black Nut Driver   | 1  |
| 1563 | FT 1/4" Red Nut Driver  | 1  |
| 1564 | FT 5.5mm Red Nut Driver   | 1  |
| 1565 | FT 11/32" Green Nut Driver  | 1  |
| 1566 | FT 7.0mm Silver Nut Driver  | 1  |
| 1567 | FT 8mm Gold Nut Driver  | 1  |
| 1589 | FT 5/64" Blue Ball Hex Driver   | 1  |
| 1590 | FT 3/32" Gold Ball Hex Driver   | 1  |
| 1592 | FT Ball Hex Driver Set, (3 pcs)   | 1  |
| 1655 | FT 8-Piece 1/4" Hex Drive Set   | 1  |
| 1656 | FT 1/4" Hex Drive Handle, without tips  | 1  |
| 1657 | FT 1/4" Hex Drive .050" Tip   | 1  |
| 1658 | FT 1/4" Hex Drive 1/16" Tip   | 1  |
| 1659 | FT 1/4" Hex Drive 5/64" - 2.0mm Tip   | 1  |
| 1660 | FT 1/4" Hex Drive 3/32" Tip   | 1  |
| 1661 | FT 1/4" Hex Drive 1.5mm Tip   | 1  |
| 1662 | FT 1/4" Hex Drive 2.5mm Tip   | 1  |
| 1663 | FT 1/4" Hex Drive 3/16" Nut Driver Tip  | 1  |
| 1664 | FT 1/4" Hex Drive 1/4" Nut Driver Tip   | 1  |
| 1665 | FT 1/4" Hex Drive 11/32" Nut Driver Tip   | 1  |
| 1666 | FT 1/4" Hex Drive 5.5mm Nut Driver Tip  | 1  |
| 1667 | FT 1/4" Hex Drive 7.0mm Nut Driver Tip  | 1  |
| 1668 | FT 1/4" Hex Drive 8.0mm Nut Driver Tip  | 1  |
| 1669 | FT 1/4" Hex Drive 5/64" - 2.0mm Ball End Tip  | 1  |
| 1670 | FT 1/4" Hex Drive 3/32" Ball End Tip  | 1  |
| 1671 | FT 1/4" Hex Drive Standard Screwdriver Tip  | 1  |
| 1672 | FT 1/4" Hex Drive Phillips Screwdriver Tip  | 1  |
| 1673 | FT 1/4" Hex Drive 2.5mm Ball End Tip  | 1  |
| 1674 | FT 1/4" 5 Piece Power Tool Tips Set (5/64-2.0mm, 1.5mm, 2.5mm, 5/64"- 2.0mm ball, 2.5mm ball) | 1  |
| 1719 | FT Camber + Track Width Tool  | 1  |
| 1737 | FT Body Scissors  | 1  |
| 3718 | 12 Inch Nylon Wire Ties   | 12 |
| 3719 | 6 Inch Nylon Wire Ties  | 12 |
| 3720 | 8 Inch Nylon Wire Ties  | 12 |
| 3987 | FT Droop Gauge  | 1  |
| 6429 | Shock Building Tool   | 1  |
| 6956 | Molded Tools, Set   | 1  |
| 7709 | 4 Inch Nylon Wire Ties  | 12 |

Associated Electrics, Inc.  
26021 Commercentre Drive  
Lake Forest, CA 92630-8853 USA  
<http://www.TeamAssociated.com>  
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call: (949) 544-7500

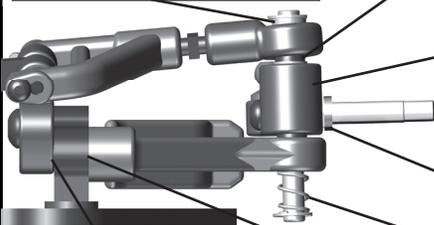
fax: (949) 544-7501

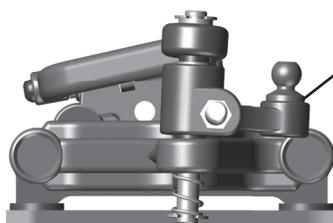
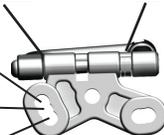
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[www.TeamAssociated.com](http://www.TeamAssociated.com) - [www.RC10.com](http://www.RC10.com)

**Front Suspension**

 Ride Height: 4.0mm      Camber: -1.5°

 Droop: \_\_\_\_\_      Toe: +1° (out)
**Front Arms**
**Upper Kingpin Shims**
3 Shims (0.045")
**Lower Kingpin Shims**
1 Shim (0.015")
**Steering Block Type**
 **Offset**     **Inline**
**Axle Shims**
3 Shims (0.045")

 Spring: 0.018

 Lube: 30,000 cst
**Upper Arm Mount Spacer**  
None
**Lower Arm Spacer**  
None
**Front End Width**
 **Narrow**  
 **Wide**

**Bumpsteer Ball & Shims**  
Black
**Ride Height Spacing**  
1mm
**Wheel Base**
 **Short**     **Mid**     **Long**
**FR Shim**
**RR Shim**
 **1.80° Thick**      **Thin**  
 **3.25° Thin**      **Thick**  
 **6.15° -----**      **Thick, Thin**
**Front Shim**      **Rear Shim**
 **10°**  
 **5°**  
 **0°**

**Rear Suspension**

 Ride Height: 4.0mm      Droop: \_\_\_\_\_

 Ride Height Adjuster: 1      Axle Width: \_\_\_\_\_

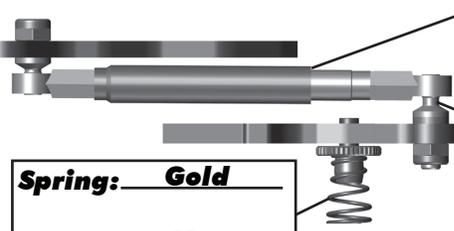
**Center Shock**
**Shock Length**
66.3mm
**Upper Ball & Shims**
Silver +5mm

 Spring: Red

 Oil: 30wt

**Damper Tubes & Side Springs**
**Lube**
25,000 cst
**Outer Ball & Shims**
Silver +1mm

 Spring: Gold

 Preload: None

**Rear Pod Links**
**Front Link Shims**
None
**Rear Link Shims**
None

**Front Tires**

 Tire: \_\_\_\_\_  
 Diameter: \_\_\_\_\_  
 Additive Type: \_\_\_\_\_  
 Additive Amount: \_\_\_\_\_  
 Additive Time: \_\_\_\_\_

**Rear Tires**

 Tire: \_\_\_\_\_  
 Diameter: \_\_\_\_\_  
 Additive Type: \_\_\_\_\_  
 Additive Amount: \_\_\_\_\_  
 Additive Time: \_\_\_\_\_

**LF**
**RF**
**LR**
**RR**
**Motor/Battery**

 Motor: \_\_\_\_\_  
 Timing: \_\_\_\_\_      Gearing: \_\_\_\_\_ / \_\_\_\_\_  
 Rollout: \_\_\_\_\_  
 Battery: 1S LiPo  
 Battery Position: **FWD**  **MID**  **BACK** 
**Radio**

 Radio: \_\_\_\_\_  
 Turning Circle: \_\_\_\_\_  
 Steering Expo: \_\_\_\_\_  
 Brake E.P.: \_\_\_\_\_  
 Throttle Expo: \_\_\_\_\_

**Speed Control**

 S.C. Type: \_\_\_\_\_  
 S.C. Settings: \_\_\_\_\_  
 S.C. Software: \_\_\_\_\_  
 Notes: \_\_\_\_\_

**Body**

 Body Type: \_\_\_\_\_  
 Notes: \_\_\_\_\_

**Race and Vehicle Comments**

 Qualify: \_\_\_\_\_      Main: \_\_\_\_\_      Finish: \_\_\_\_\_      TQ: \_\_\_\_\_  
 Comments: \_\_\_\_\_

**Track Info**

 Traction: **High**       **Medium**       **Low**   
 Surface: **Carpet**       **Asphalt**   
              **Smooth**       **Bumpy** 

Other: \_\_\_\_\_

**:: Hardware - 1:1 Scale View**

**Socket Head (shcs)**

-  **4-40x1/4" (6284)**
-  **4-40x3/8" (6924)**
-  **3x8mm (89223)**

**Shims and Washers**

-  **.030 Washer (9630)**
-  **Kingpin Shim (8425)**
-  **Blue Aluminum Shims  
1mm, 2mm (31286)**
-  **Gold Washer (7337)**
-  **Bulkhead Shim (4617)  
0.5mm, 1mm, 2mm**
-  **T-Plate Spacers (4650)**
-  **Rear Axle Shim  
.005" (4554)**

**Flat Head (fhcs)**

-  **2.5x6mm (4675)**
-  **3x5mm (31540)**
-  **3x8mm (25201)**
-  **3x10mm (25202)**
-  **3x12mm (25203)**
-  **2-56x3/8 (31125)**

**Setcrew**

-  **3x2.5mm (31500)**
-  **3x5mm (89219)**
-  **3x8mm (4670)**
-  **3x10mm (4671)**
-  **3x16mm (4689)**

**Ball Bearings**

-  **Rear Axle Bearing (897)  
3/8 x 1/4 Flanged**
-  **Front Wheel Bearing (3655)  
1/8 x 5/16 Flanged**

**Button Head (bhcs)**

-  **2x4mm (31510)**
-  **2x6mm (4672)**
-  **2.5x4mm (4673)**
-  **3x5mm (31530)**
-  **3x6mm (31531)**
-  **3x8mm (31532)**
-  **3x10mm (25211)**

**Nuts (lock/plain)**

-  **M2.5 Locknut (4676)**
-  **M3 Locknut (31550)**

**Pivot Balls**

-  **Hard Anodized Pivot Ball (4637)**
-  **Plastic Pivot Ball (8417)**

**Ballstuds**

-  **Black 5mm short (31280)  
(Ti Nitride 5mm short, 31288)**
-  **Silver 5mm long (31283)  
(Ti Nitride 5mm long, 31291)**
-  **Black 8mm short (31281)  
(Ti Nitride 8mm short, 31289)**
-  **Silver 8mm long (31284)  
(Ti Nitride 8mm long, 31292)**
-  **Black 10mm short (31282)  
(Ti Nitride 10mm short, 31290)**
-  **Silver 10mm long (31285)  
(Ti Nitride 10mm long, 31293)**

**Notes:**

**Front Suspension**

**Ride Height:** \_\_\_\_\_ **Camber:** \_\_\_\_\_  
**Drop:** \_\_\_\_\_ **Toe:** \_\_\_\_\_

**Front Arms**
**Upper Kingpin Shims**  
 \_\_\_\_\_

**Lower Kingpin Shims**  
 \_\_\_\_\_

**Steering Block Type**
 **Offset**    **Inline**
**Axle Shims**  
 \_\_\_\_\_

**Upper Arm Mount Spacer**  
 \_\_\_\_\_

**Lower Arm Spacer**  
 \_\_\_\_\_

**Spring:** \_\_\_\_\_

**Lube:** \_\_\_\_\_

**Front End Width**
 **Narrow**  
 **Wide**
**Bumpsteer Ball & Shims**  
 \_\_\_\_\_

**Ride Height Spacing**  
 \_\_\_\_\_

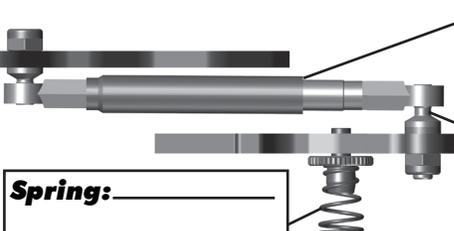
**Wheel Base**
 **Short**    **Mid**    **Long**
**FR Shim**
**RR Shim**
 **1.80° Thick**    **Thin**  
 **3.25° Thin**    **Thick**  
 **6.15° -----**    **Thick, Thin**
**Front Shim**   **Rear Shim**  
 10°  
 5°  
 0°

**Rear Suspension**

**Ride Height:** \_\_\_\_\_ **Drop:** \_\_\_\_\_  
**Ride Height Adjuster:** \_\_\_\_\_ **Axle Width:** \_\_\_\_\_

**Center Shock**


**Shock Length**  
 \_\_\_\_\_  
**Upper Ball & Shims**  
 \_\_\_\_\_  
**Spring:** \_\_\_\_\_  
**Oil:** \_\_\_\_\_

**Damper Tubes & Side Springs**


**Lube**  
 \_\_\_\_\_  
**Outer Ball & Shims**  
 \_\_\_\_\_  
**Spring:** \_\_\_\_\_  
**Preload:** \_\_\_\_\_

**Rear Pod Links**


**Front Link Shims**  
 \_\_\_\_\_  
**Rear Link Shims**  
 \_\_\_\_\_

**Front Tires**

**Tire:** \_\_\_\_\_  
**Diameter:** \_\_\_\_\_  
**Additive Type:** \_\_\_\_\_  
**Additive Amount:** \_\_\_\_\_  
**Additive Time:** \_\_\_\_\_

**Rear Tires**

**Tire:** \_\_\_\_\_  
**Diameter:** \_\_\_\_\_  
**Additive Type:** \_\_\_\_\_  
**Additive Amount:** \_\_\_\_\_  
**Additive Time:** \_\_\_\_\_

**LF**
**RF**
**LR**
**RR**
**Motor/Battery**

**Motor:** \_\_\_\_\_  
**Timing:** \_\_\_\_\_ **Gearing:** \_\_\_\_\_ / \_\_\_\_\_  
**Rollout:** \_\_\_\_\_  
**Battery:** \_\_\_\_\_  
**Battery Position:** **FWD**  **MID**  **BACK**

**Radio**

**Radio:** \_\_\_\_\_  
**Turning Circle:** \_\_\_\_\_  
**Steering Expo:** \_\_\_\_\_  
**Brake E.P.:** \_\_\_\_\_  
**Throttle Expo:** \_\_\_\_\_

**Speed Control**

**S.C. Type:** \_\_\_\_\_  
**S.C. Settings:** \_\_\_\_\_  
**S.C. Software:** \_\_\_\_\_  
**Notes:** \_\_\_\_\_

**Body**

**Body Type:** \_\_\_\_\_  
**Notes:** \_\_\_\_\_

**Race and Vehicle Comments**

**Qualify:** \_\_\_\_\_ **Main:** \_\_\_\_\_ **Finish:** \_\_\_\_\_ **TQ:** \_\_\_\_\_  
**Comments:** \_\_\_\_\_

**Track Info**

**Traction:** **High**  **Medium**  **Low**   
**Surface:** **Carpet**  **Asphalt**   
**Smooth**  **Bumpy**   
**Other:** \_\_\_\_\_



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