

FE
CLASSIC

RC10
SINCE 1984



TEAM ASSOCIATED

1:10 Scale Electric 2WD On Road Competition Race Car Manual
#8024 RC10 F6 Classic Kit



:: Introduction

Thank you for purchasing this Team Associated product. This assembly manual contains instructions and tips for building and maintaining your new Kit. 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. Check each bag for these sheets before you start to build.

:: KIT Features

Features in the RC10F6 Kit:

- 2.5mm aluminum chassis for superior flex characteristics
- Front and rear wings modeled after 2017 F1 rules included
- Genuine Fox Kashima Coated center shock for minimal friction and extended wear
- Chassis design allows for multiple battery configurations
- New center pivot design for optimized rear pod assembly
- Light weight graphite axle for increased durability and rigidity
- Differential thrust bearing assembly for smooth action and extended life between rebuilds
- Rear axle accepts all standard spur gears without adapter
- Two steering bellcrank options for fine tuning Ackermann and steering rate
- Integrated droop posts for adjusting droop without disassembly

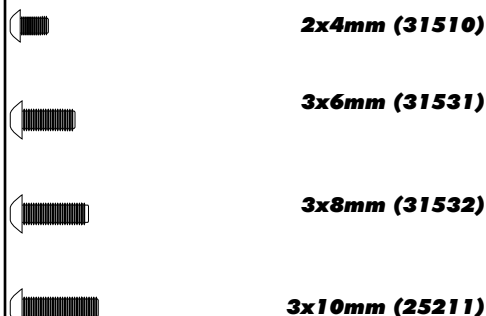
:: Additional

Your new RC10F6 comes unassembled and requires the following items for completion. (refer to website section for suggestions):

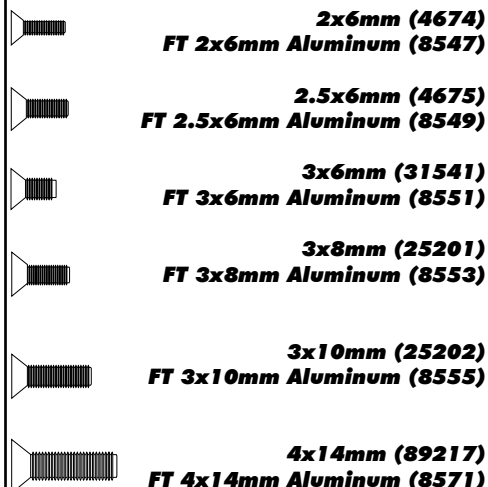
- | | |
|---|--|
| • 1:10th scale electric motor and electronic speed control | • Polycarbonate specific paint for body |
| • 3.7V-7.4V LiPo, 6.6V LiFe, or 4.8V-7.2V NiMH/NiCd battery | • Body Scissors (AE Part #1737) |
| • Battery charger (suited for, and particular to, one of the batteries mentioned) | • CA Glue (AE Part# 1697) |
| • 2 channel surface transmitter, 2 channel receiver, and steering servo / horn | • Thread Lock (AE Part #1596) |
| • Silicone Shock Fluid (Refer to website for complete listings) | • FT Dual Turnbuckle Wrench (AE#1114) |
| • Silicone Diff Fluid (Refer to website for complete listings) | • Shock Shaft Pliers (AE Part #1681) |
| • Wire Cutters/ Hobby Knife / Reamer / Hole Punch | • Needle Nose Pliers |
| • FT Hex Wrenches (AE Part #1518) | • FT Hex/Nut Drivers Set (AE Part #1519) |
| • Calipers or a Precision Ruler | • Soldering Iron |

:: Hardware - 1:1 Scale View

Button Head (bhcs)



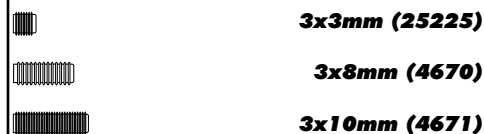
Flat Head (fhcs)



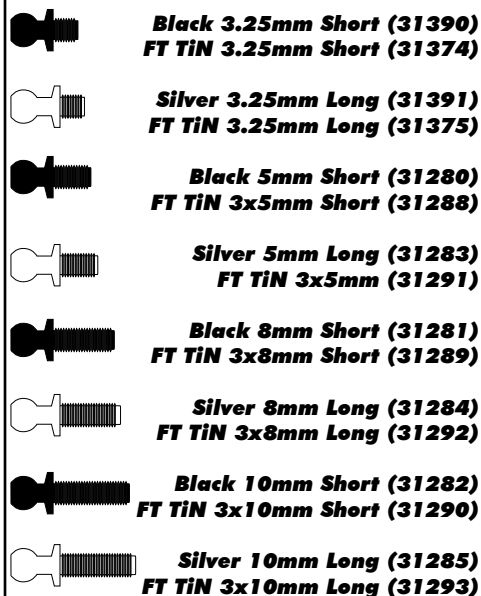
Socket Head (shcs)



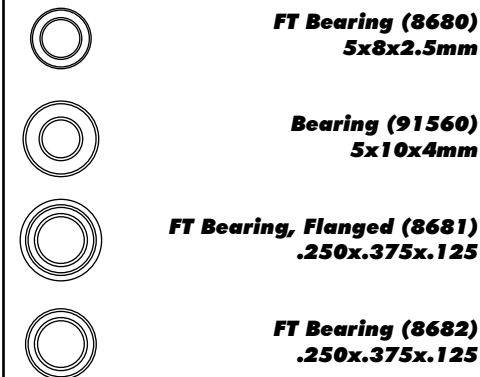
Set screw



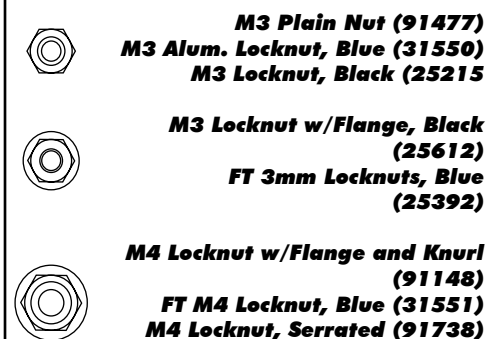
Ballstuds



Ball Bearings



Nuts (lock/plain)



Pivot Balls



Shims and Washers



Notes:

:: Table of Contents

1..... Cover	8 - 11.....Rear Suspension Build (Bag 3.1, 3.2)
2..... Introduction	11 - 12.....Axle Build (Bag 4.1, 4.2)
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4..... Table of Contents	16.....Kit Setup Sheet
5 - 6.....Shock, Damper Tubes & Turnbuckles Build (Bag 1.1, 1.2)	17.....Blank Setup Sheet
6 - 8.....Front Suspension Build (Bag 2.1, 2.2)	18..... Back Cover

:: 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 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.

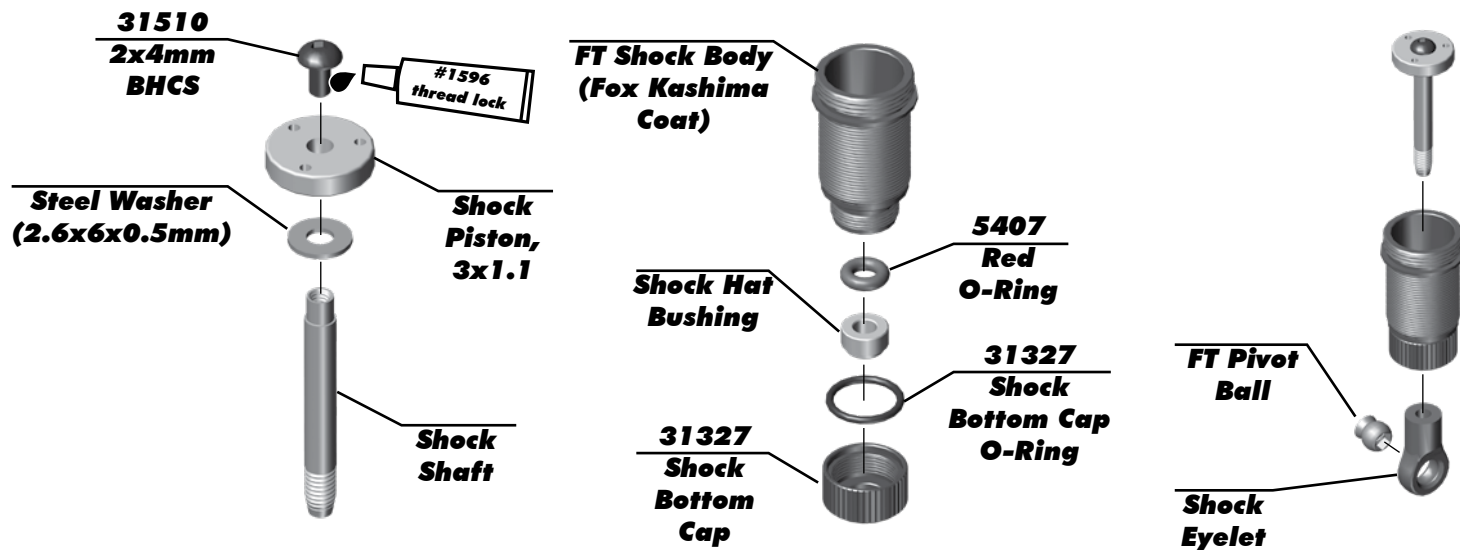
Associated Electronics, Inc.
21062 Bake Parkway.
Lake Forest, CA 92630



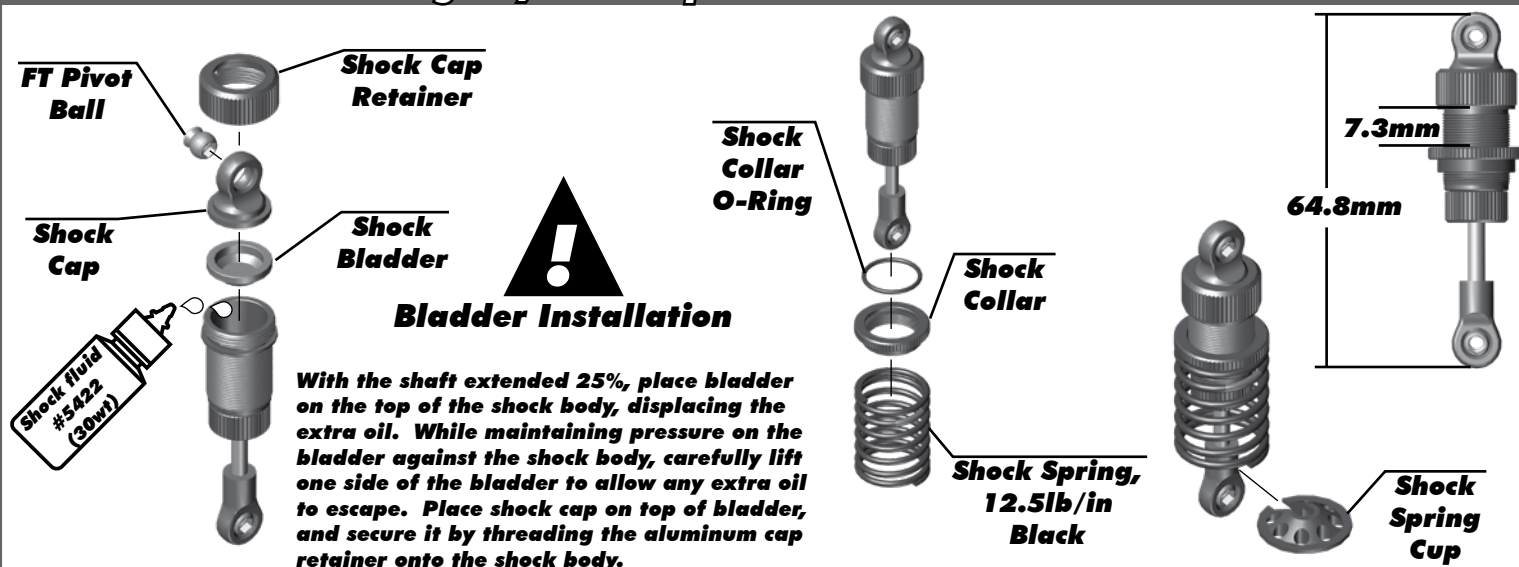
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

<http://www.AssociatedElectrics.com> • <http://www.instagram.com/teamassociatedrc/> • <http://www.facebook.com/TeamAssociated/>

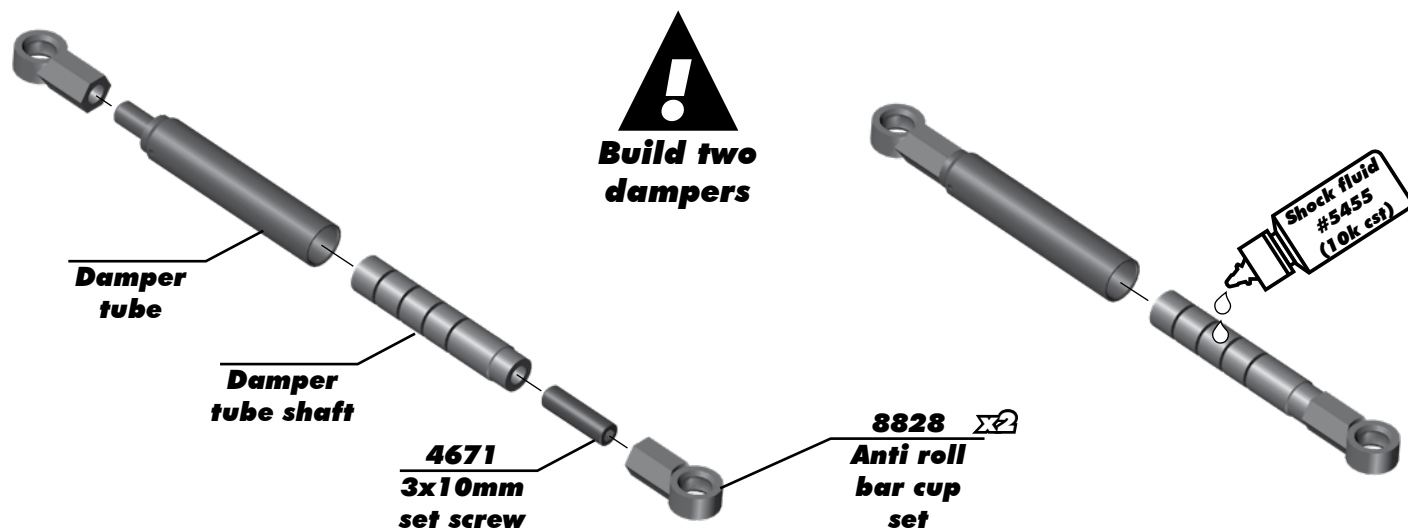
:: Center Shock Build - Bag 1.1, 1.2 - Step 1



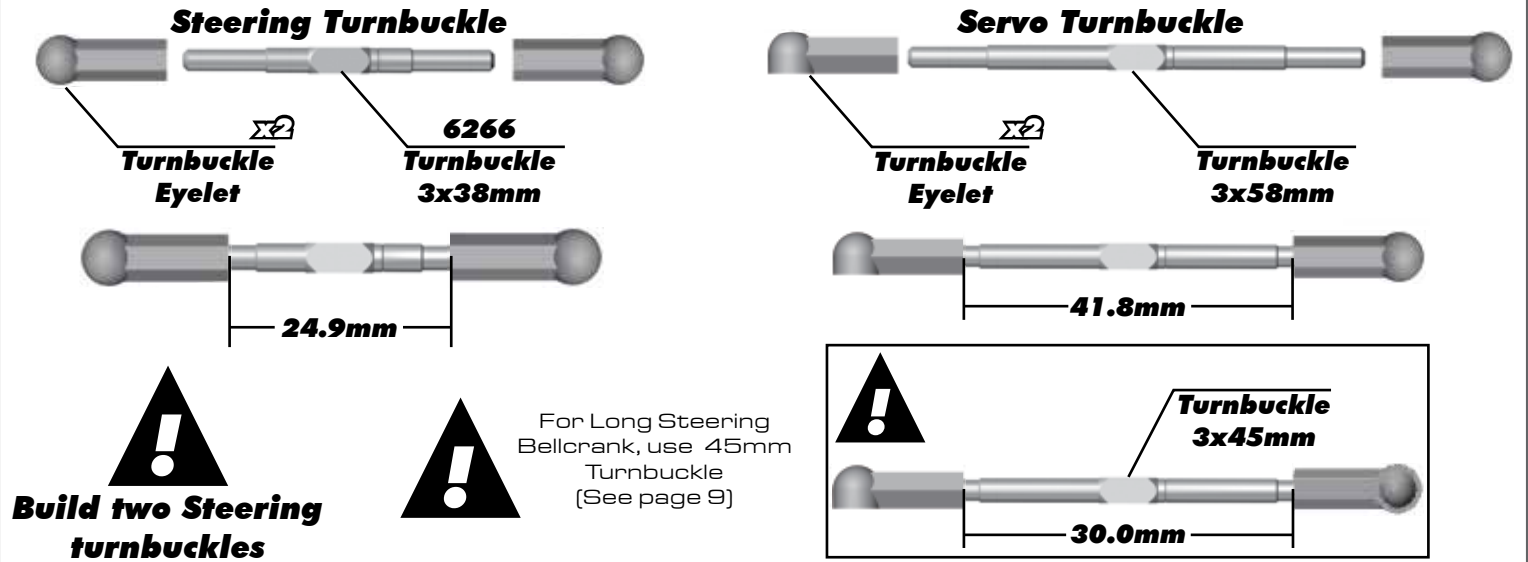
:: Center Shock Build - Bag 1.1, 1.2 - Step 2



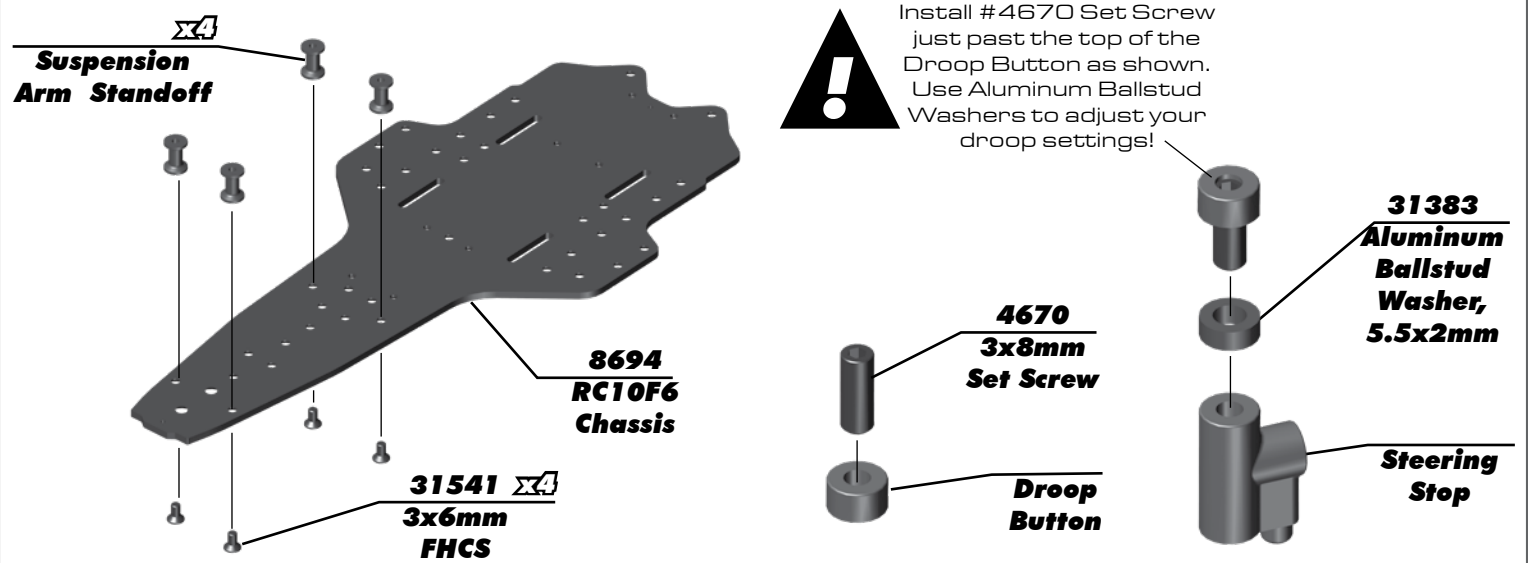
:: Damper Tubes Build - Bag 1.1, 1.2 - Step 3



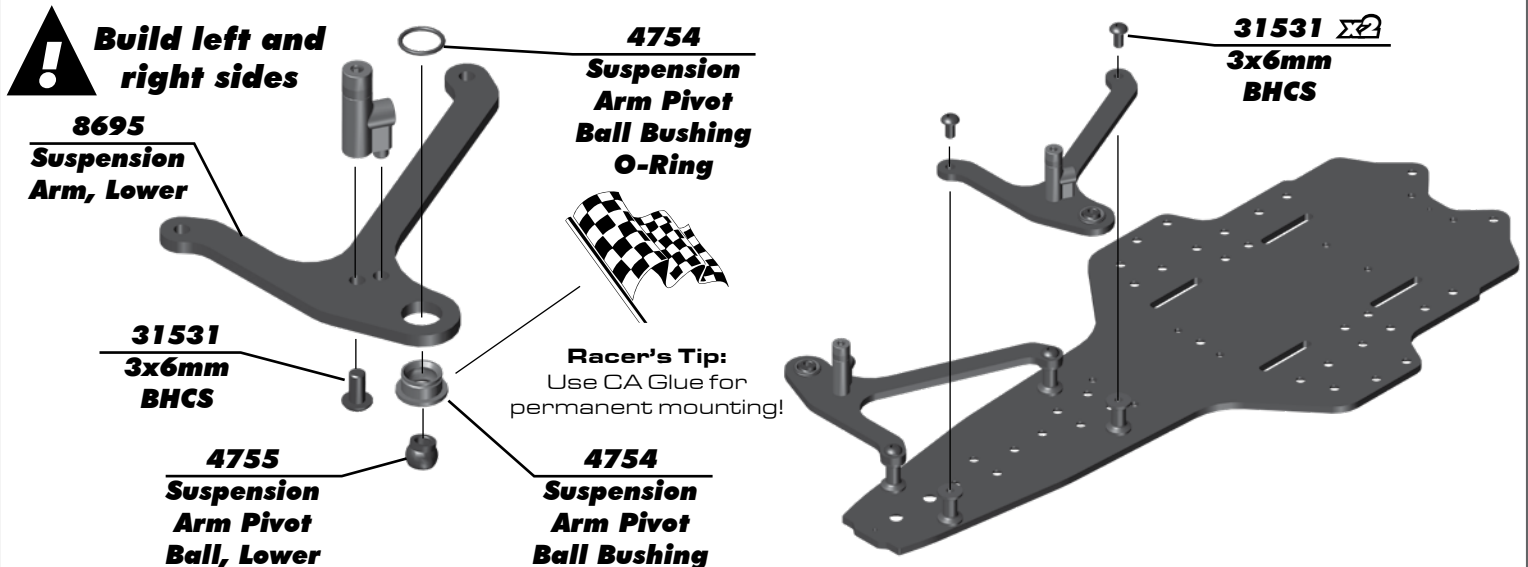
:: Turnbuckles Build - Bag 1.1, 1.2 - Step 4



:: Front Suspension Build - Bag 2.1, 2.2 - Step 1

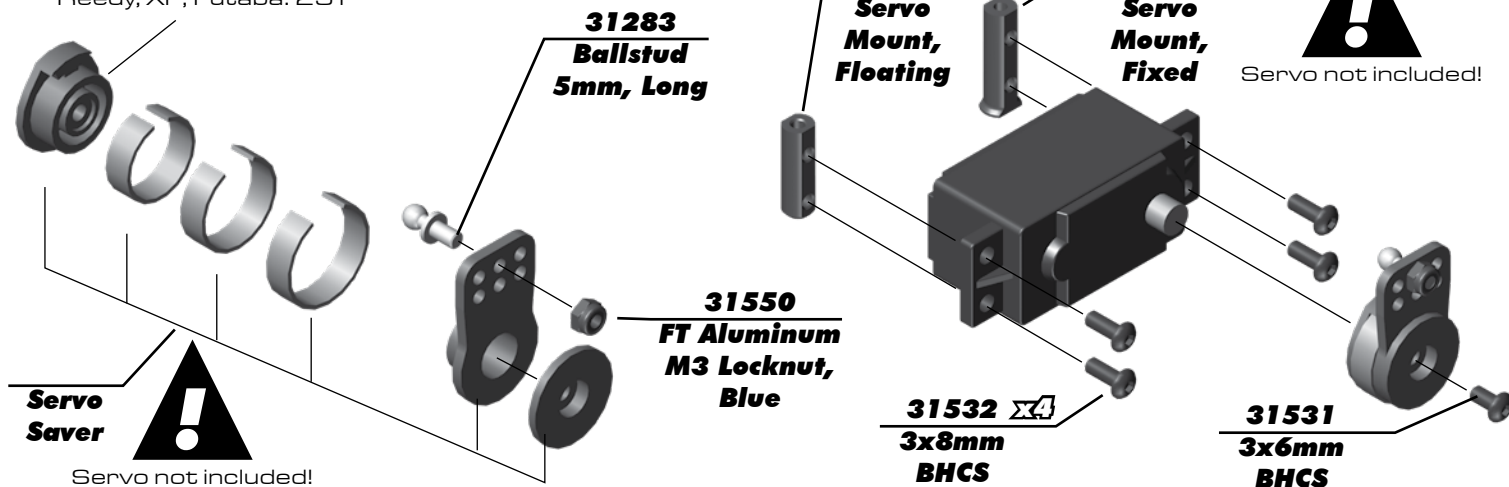


:: Front Suspension Build - Bag 2.1, 2.2 - Step 2

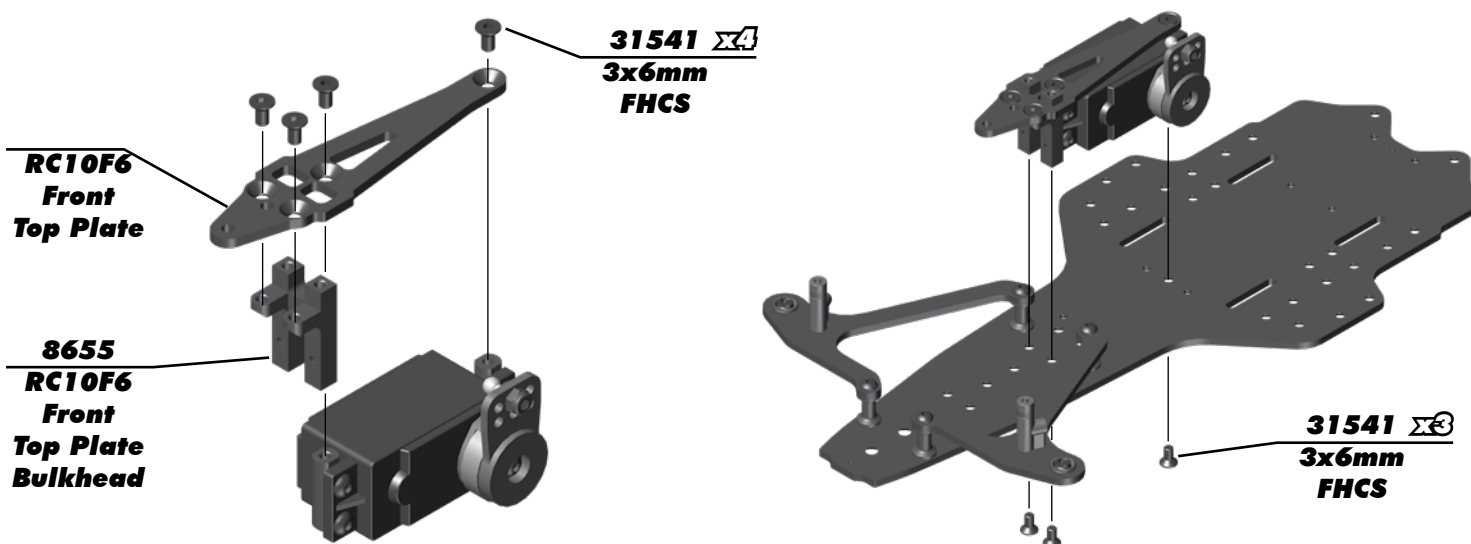


:: Front Suspension Build - Bag 2.1, 2.2 - Step 3

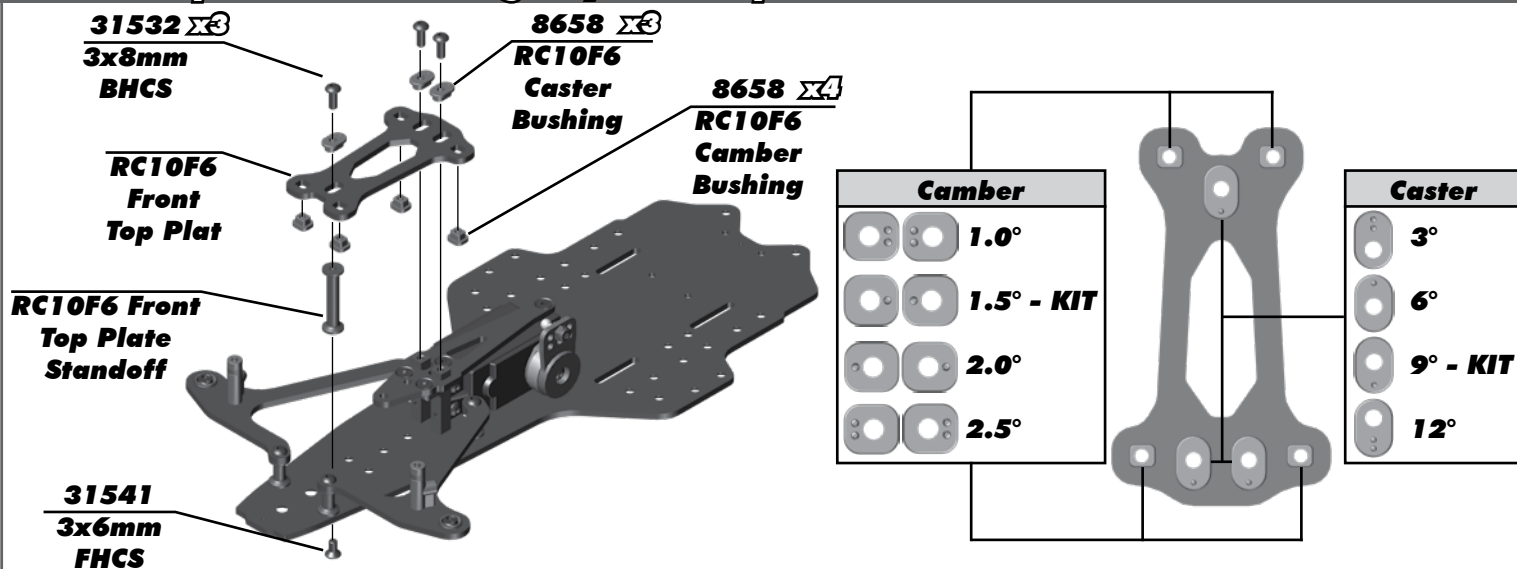
KO, Jr, Sanwa, Airtronics : 23T
Hi Tec: 24T
Reedy, XP, Futaba: 25T



:: Front Suspension Build - Bag 2.1, 2.2 - Step 4



:: Front Suspension Build - Bag 2.1, 2.2 - Step 5



:: Front Suspension Build - Bag 2.1, 2.2 - Step 6

4755 

**Suspension
Arm Pivot
Ball,
Upper**

4754 

**Suspension
Arm Pivot
Ball Bushing**



Racer's Tip:
Use CA Glue for
permanent mounting!

25211 

**3x10mm
BHCS**

31381 

**Aluminum
Ballstud
Washer,
5.5x0.5mm**

4754 

**Suspension
Arm Pivot
Ball Bushing
O-Ring**

8695

**Suspension
Arm, Upper**

!
**Build left and
right sides**

:: Front Suspension Build - Bag 2.1, 2.2 - Step 7

25225

**3x3mm
Set Screw**

31283

**Ballstud
5mm,
Long**

**RC10F6
Front Axle**

**Inline Steering
Blocks**

!
**Build left and
right sides**

**Diff Fluid
#5455 10k**

6299 

E-Clip

**3x31mm
Kingpin**

**Springs,
.016, Short**

31382 

**Aluminum
Ballstud
Washer,
5.5x1mm**

:: Front Suspension Build - Bag 3.1, 3.2 - Step 1

Place your thumb on top of the
kingpin and finger on bottom of the
steering block.
Hold the steering block against the
upper arm.
Then tighten set screw.

!
**Set gap by tightening
#25225 set screw on
#8663 kingpin**

31283 

**Ballstud
5mm, Long
(Silver)**

31383 

**Aluminum
Ballstud
Washer,
5.5x2mm**

**Ballstud
5mm, Short
(Black)**

31531

**3x6mm
BHCS**

8680 

**Bearing
5x8x2.5mm**

**RC10F6
Steering
Bellcrank,
Short**

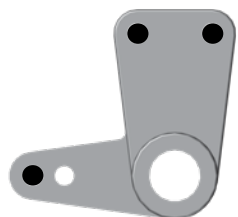
**Steering
Bellcrank
Post**

:: Front Suspension Build - Bag 3.1, 3.2 - Step 2

#8670 Steering Bellcranks

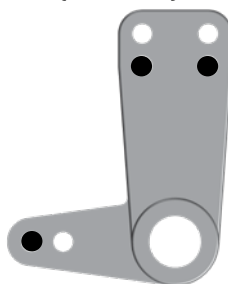
Steering Bellcrank, Short

Kit Setup

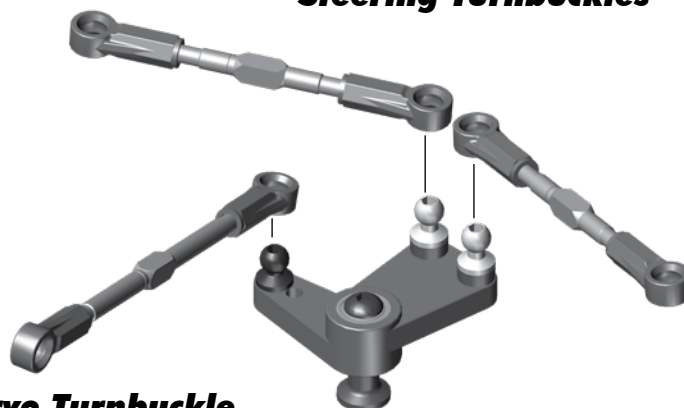


Steering Bellcrank, Long

Use for tuning adjustment of steering rate.
Requires
45mm Steering Turnbuckle
(included)



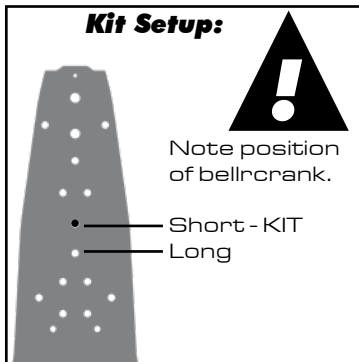
Steering Turnbuckles



Servo Turnbuckle

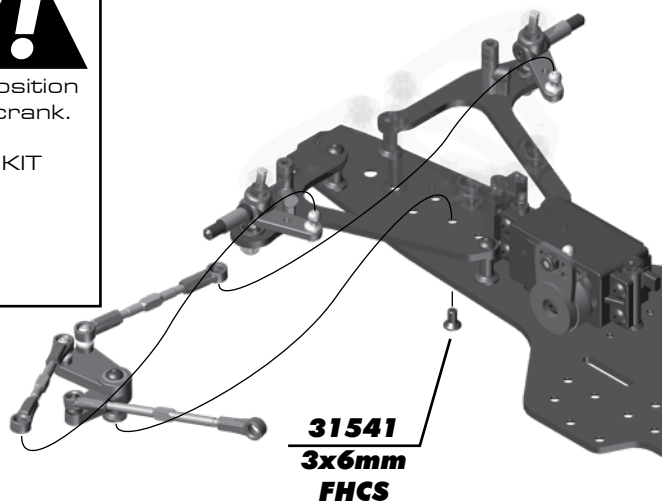
:: Front Suspension Build - Bag 3.1, 3.2 - Step 3

Kit Setup:

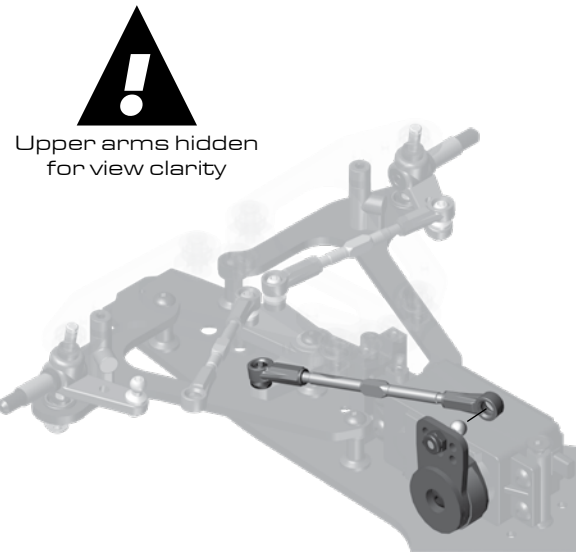


Note position of bellcrank.

- Short - KIT
- Long



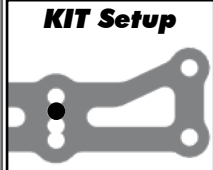
31541
3x6mm
FHCS



Upper arms hidden for view clarity

:: Rear Suspension Build - Bag 3.1, 3.2 - Step 4

KIT Setup



Motor Mount Brace

Suspension Arm Standoff

4728
Pivot Brace Slider

31531 x4
3x6mm
BHCS

Motor Mount

31531 x2
3x6mm
BHCS

Left Rear Bulkhead

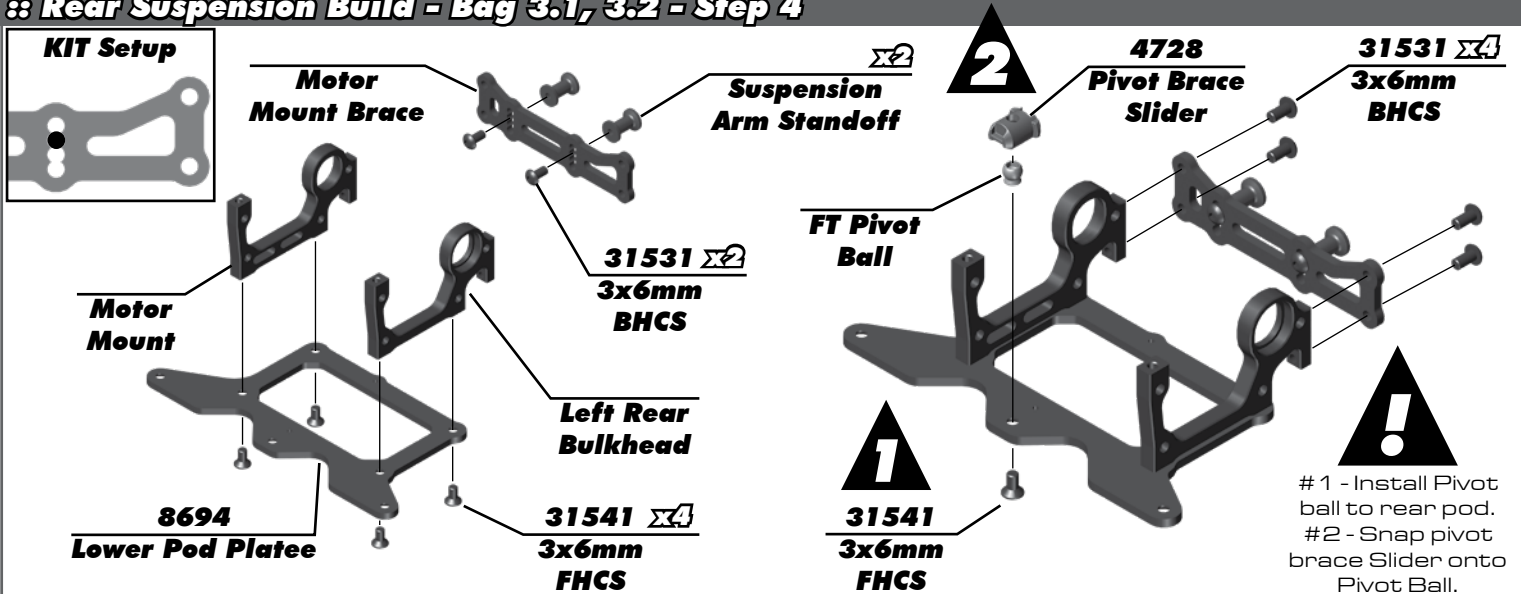
8694
Lower Pod Plate

31541 x4
3x6mm
FHCS

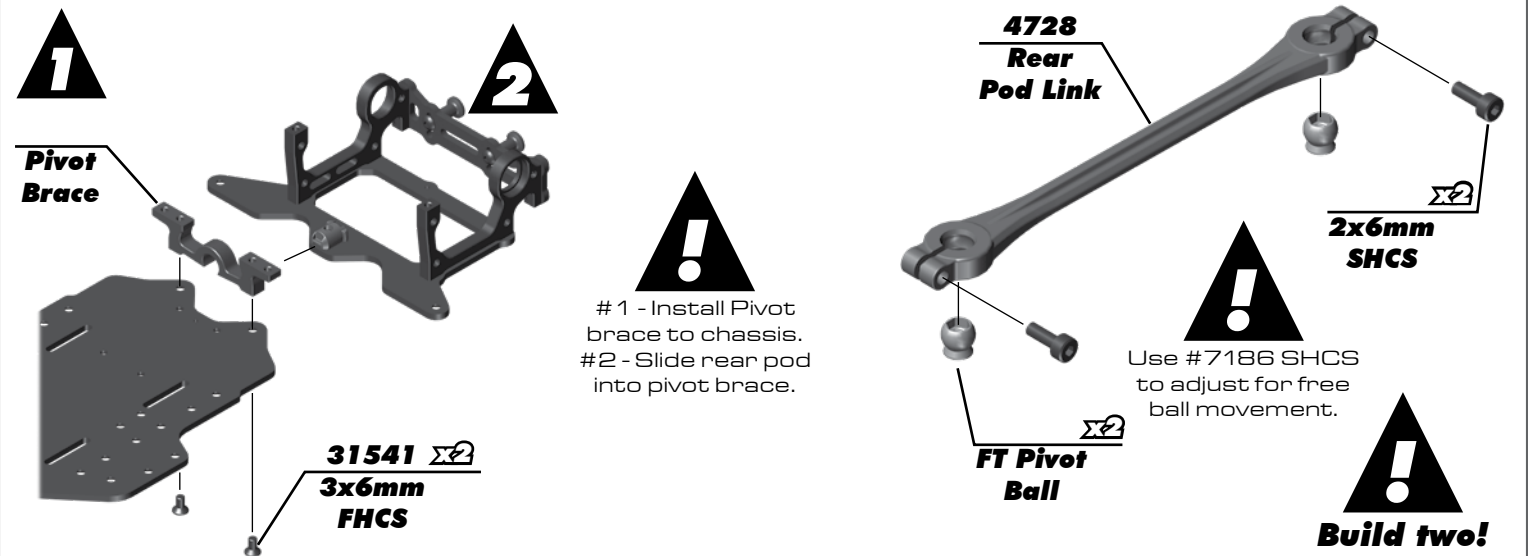
FT Pivot Ball

31541
3x6mm
FHCS

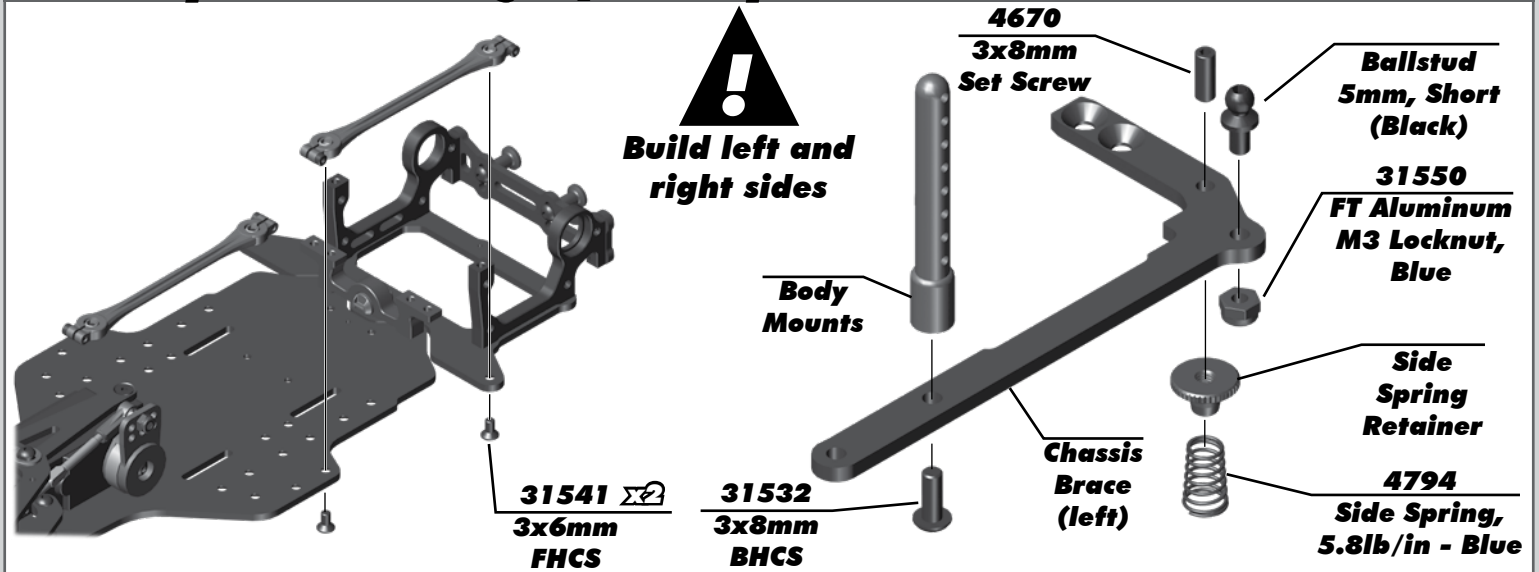
#1 - Install Pivot ball to rear pod.
#2 - Snap pivot brace slider onto Pivot Ball.



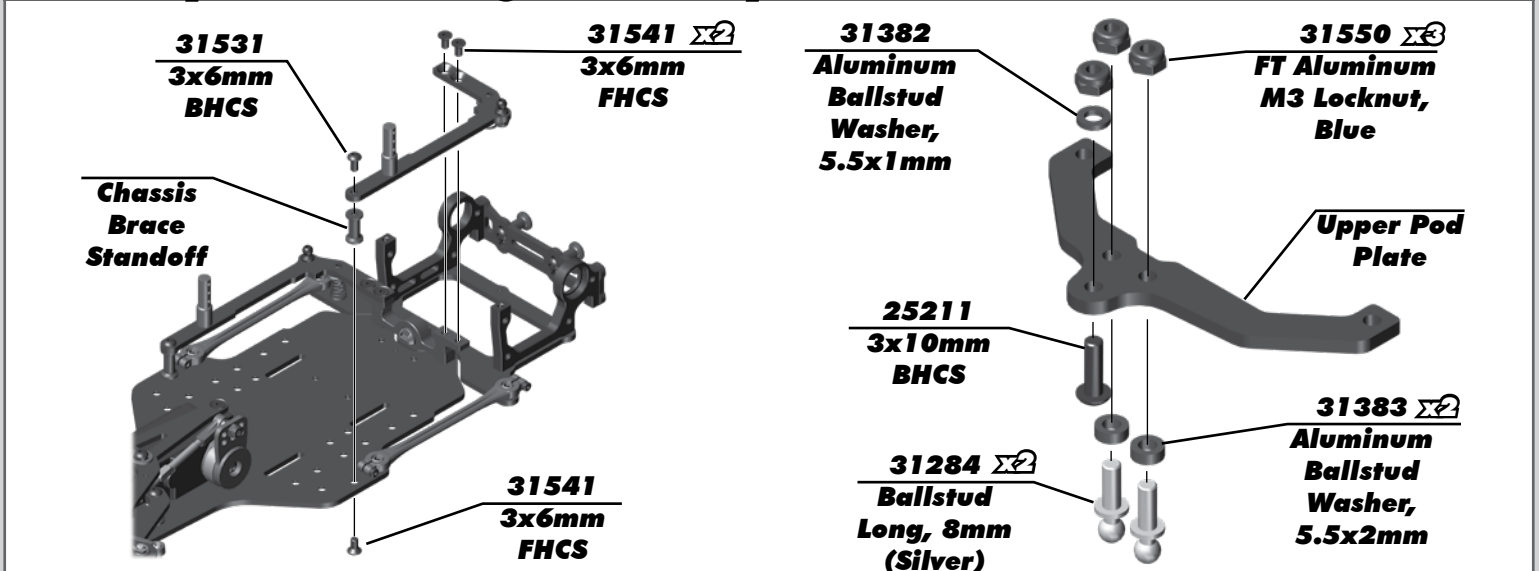
:: Rear Suspension Build - Bag 3.1, 3.2 - Step 5



:: Rear Suspension Build - Bag 3.1, 3.2 - Step 6

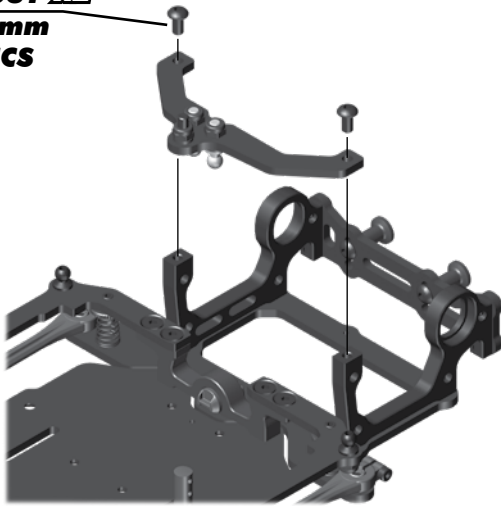


:: Rear Suspension Build - Bag 3.1, 3.2 - Step 7



:: Rear Suspension Build - Bag 3.1, 3.2 - Step 8

31531 $\Sigma 2$
3x6mm
BHCS



31531 $\Sigma 2$
3x6mm
BHCS

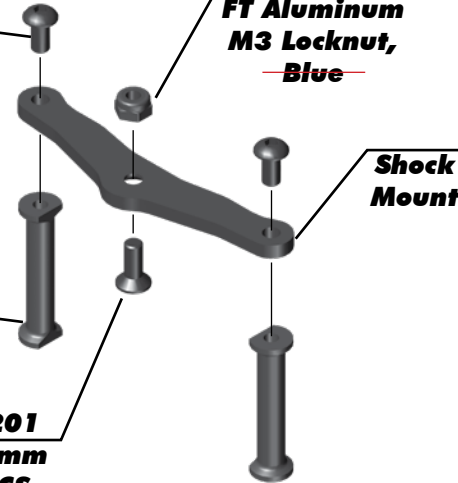
**Shock Mount
Standoff**

$\Sigma 2$

25201
3x8mm
FHCS

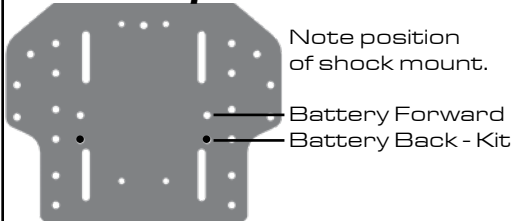
31550
FT Aluminum
M3 Locknut,
Blue

**Shock
Mount**



:: Rear Suspension Build - Bag 3.1, 3.2 - Step 9

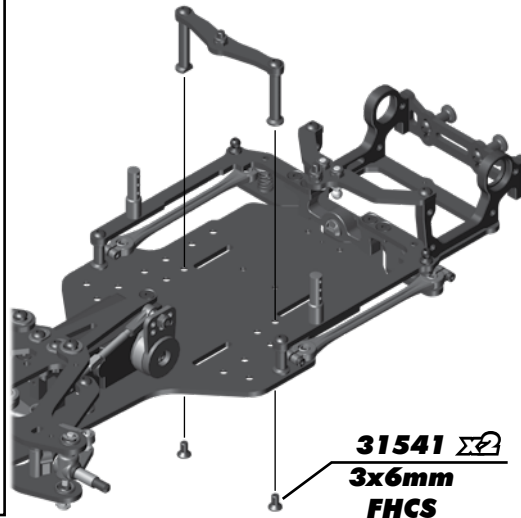
Kit Setup:



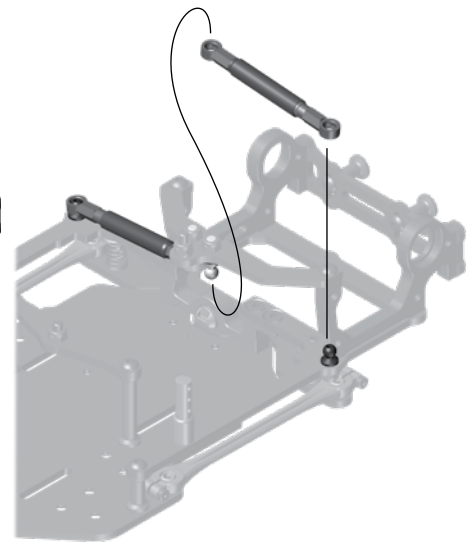
Note position
of shock mount.

Battery Forward
Battery Back - Kit

Refer to the image
to the right for the
battery forward
configuration of the
Shock Mount
assembly.
Note the orientation
of the Shock Mount
assembly!

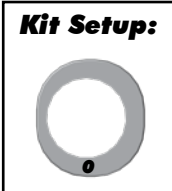


31541 $\Sigma 2$
3x6mm
FHCS



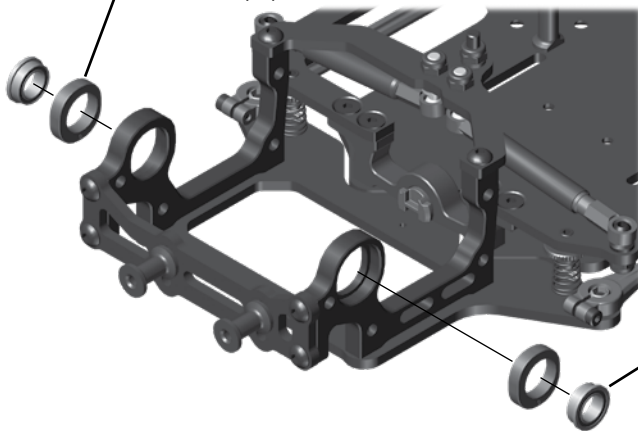
:: Rear Axle Build - Bag 4.1, 4.2 - Step 1

Kit Setup:



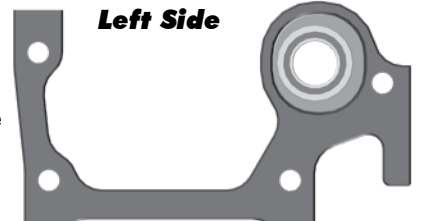
**Rear Axle
Height Adjuster
(0)**

$\Sigma 2$

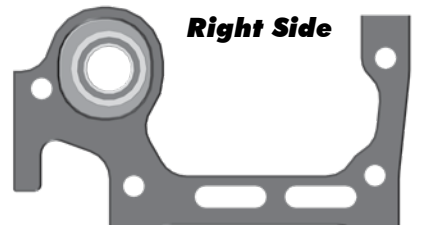


!
Note the rear axle
height adjusters
orientation!

Left Side



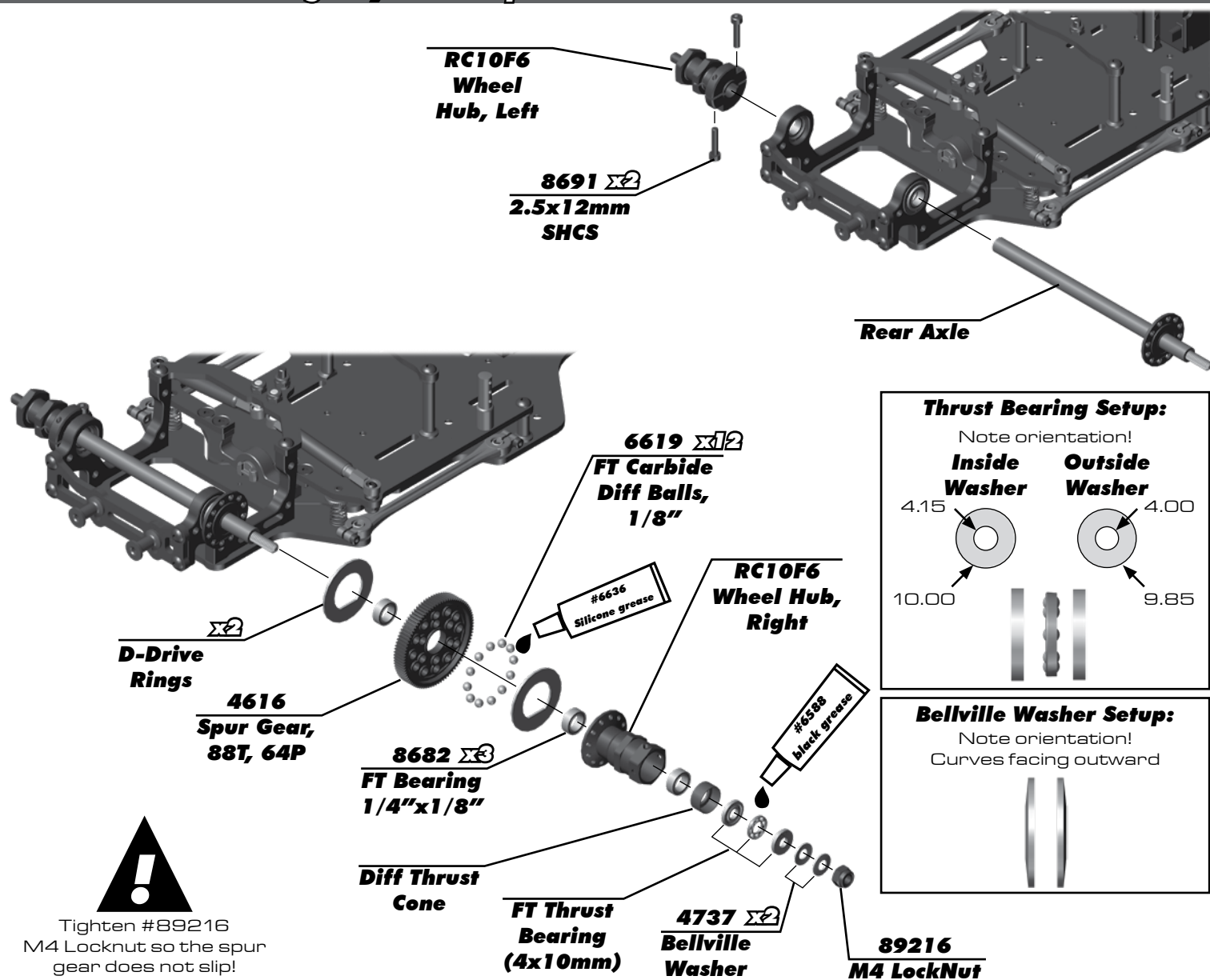
Right Side



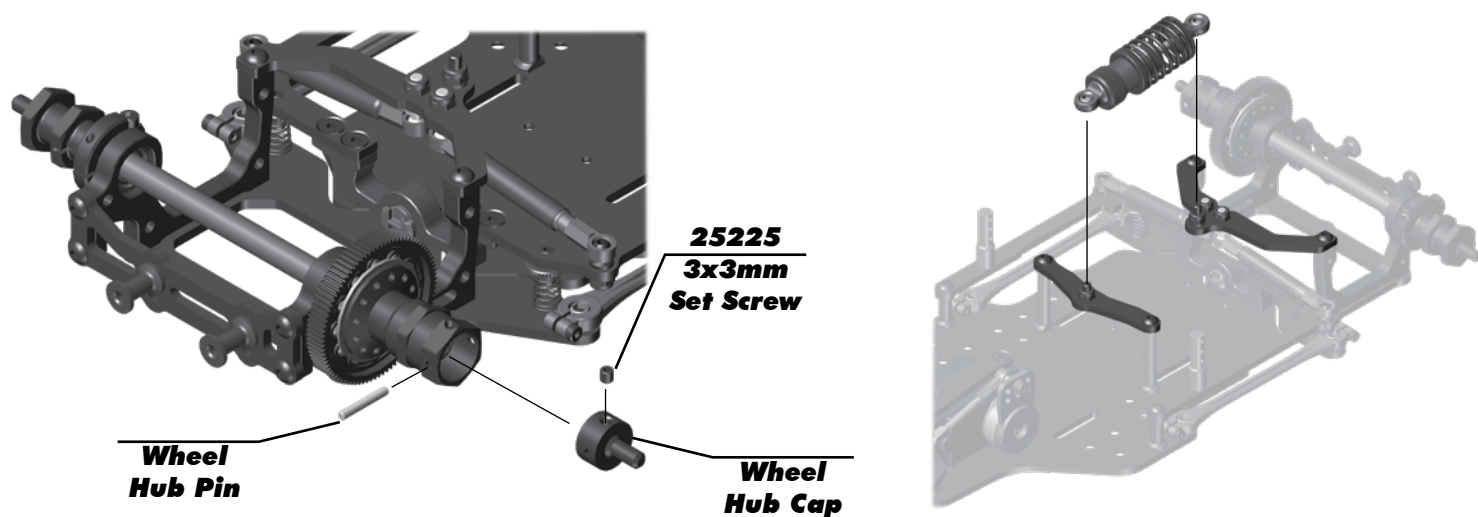
**Flanged
Bearing,
1/4x3/8**

$\Sigma 2$

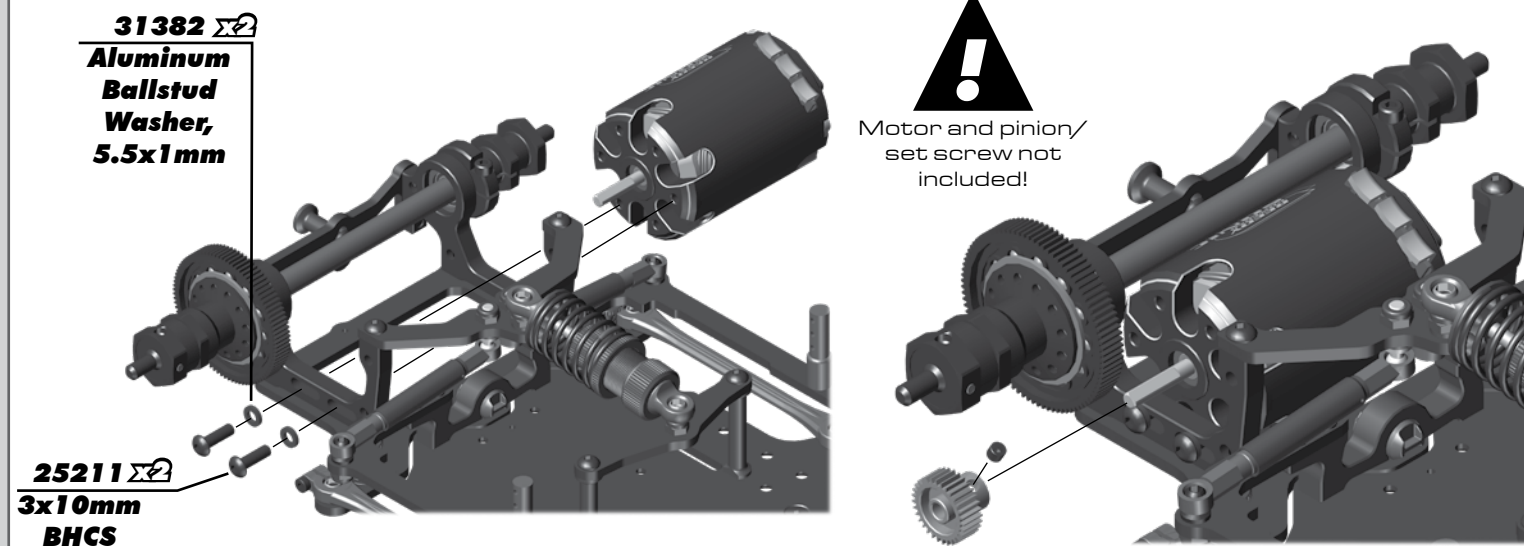
:: Rear Axle Build - Bag 4.1, 4.2 - Step 2



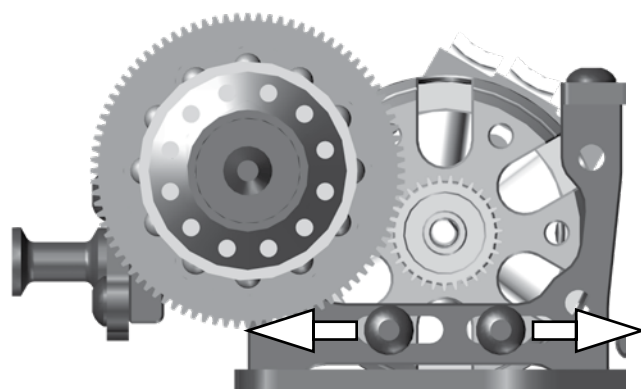
:: Rear Axle Build - Bag 4.1, 4.2 - Step 3



:: Wings / Electronics / Wheels Build - Bag 5.1, 5.2 - Step 1



:: Wings / Electronics / Wheels Build - Bag 5.1, 5.2 - Step 2

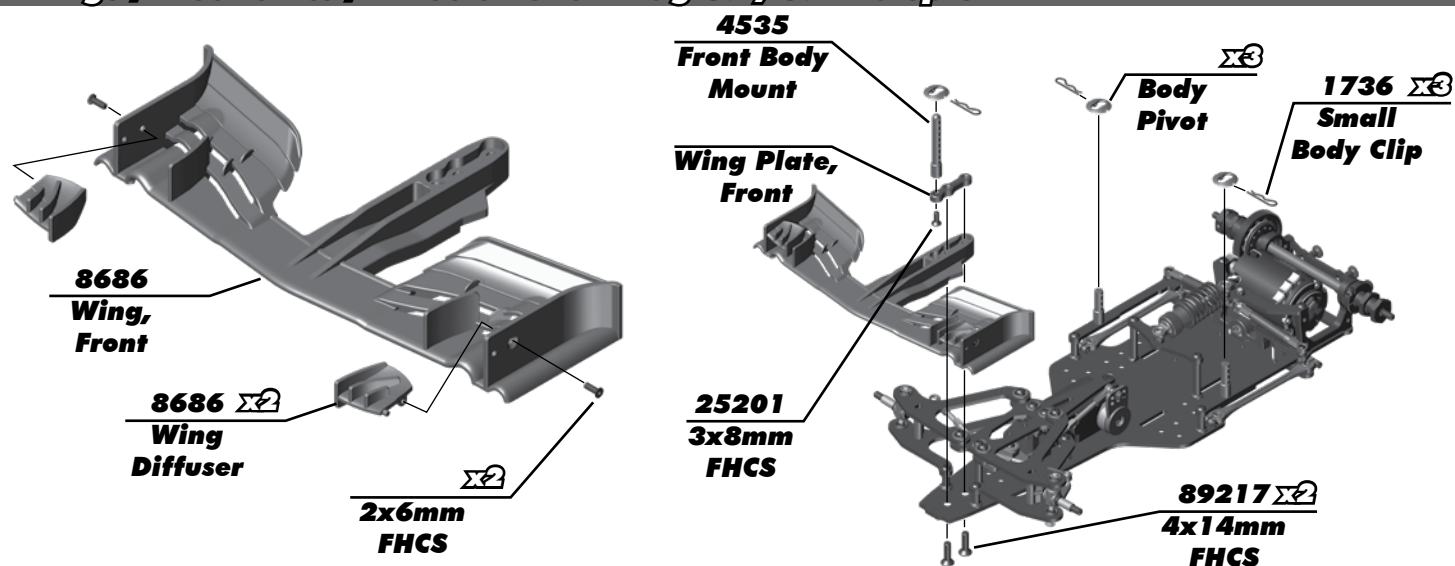


Set The Gear Mesh:

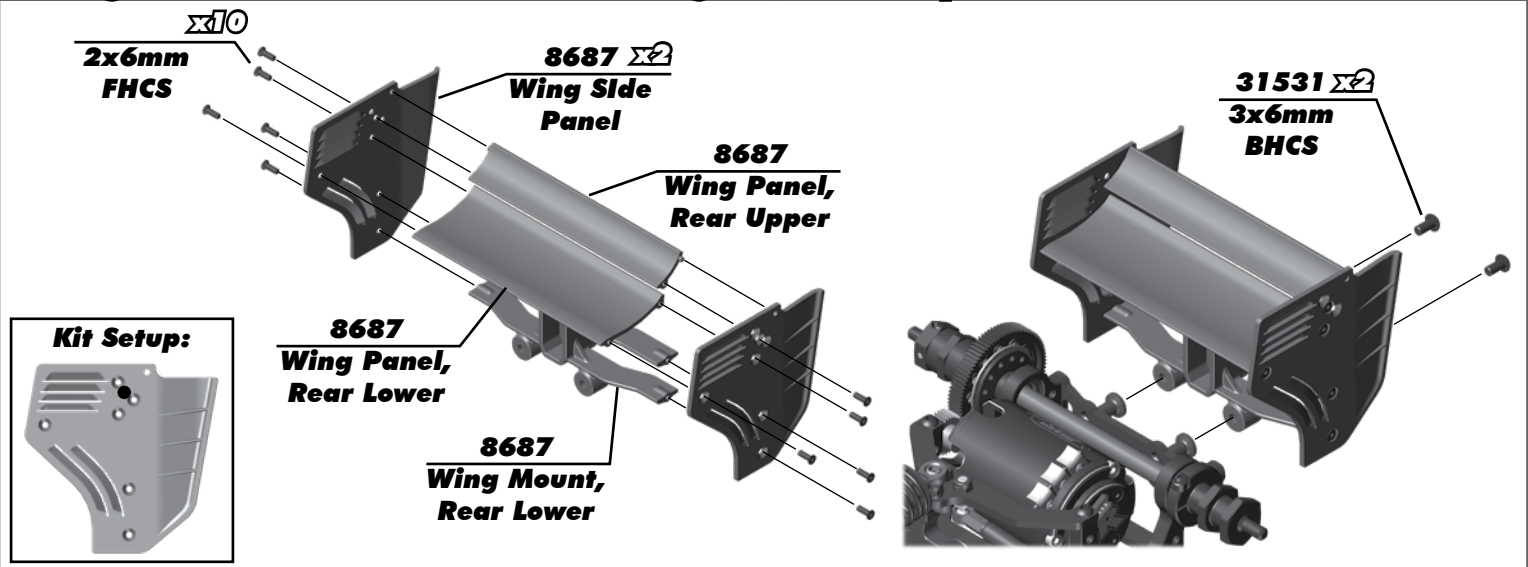
You should be able to rock the spur gear back and forth, without making the teeth of the pinion move. If the spur gear mesh is tight, then loosen the #25211 screws and move the motor away, then try again.

A gear mesh that is too tight or too loose will reduce power and damage the gear teeth.

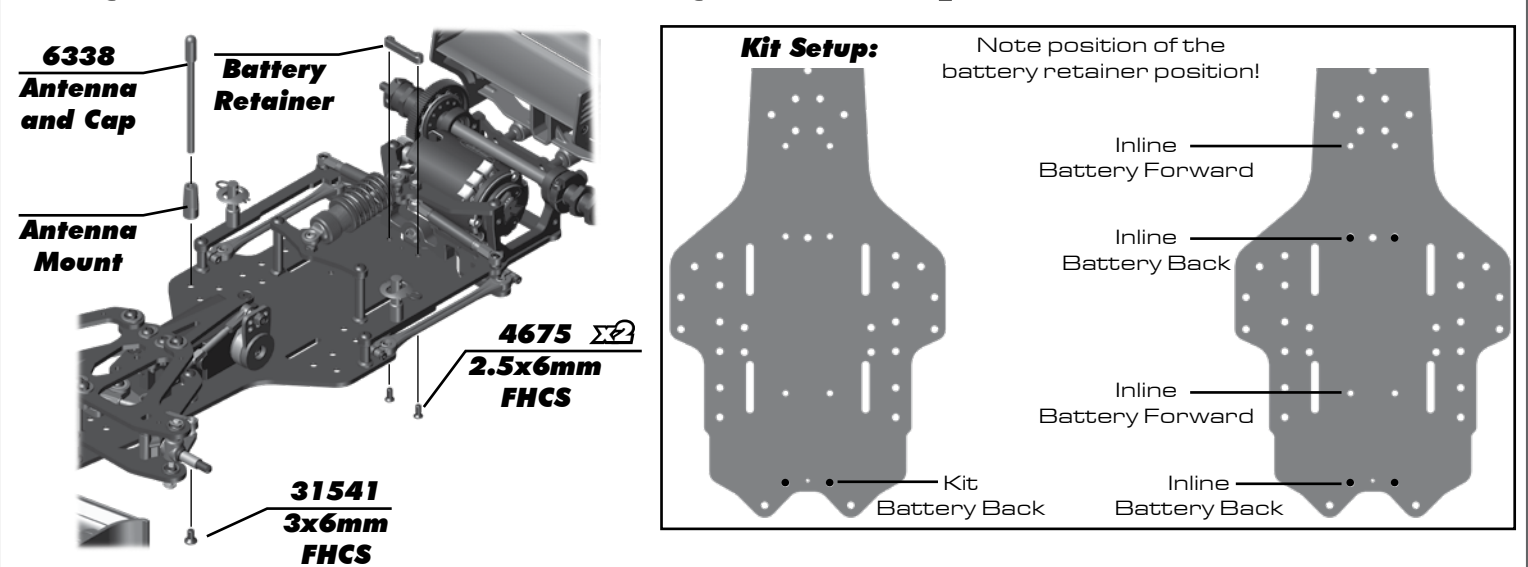
:: Wings / Electronics / Wheels Build - Bag 5.1, 5.2 - Step 3



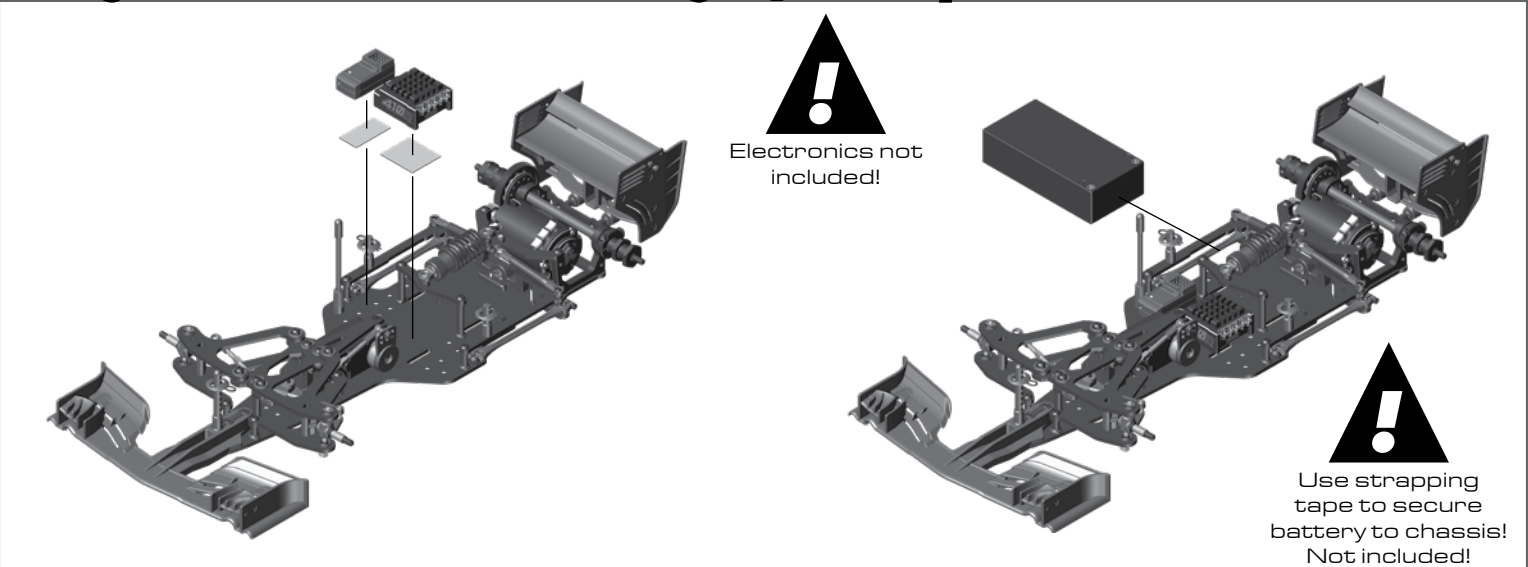
:: Wings / Electronics / Wheels Build - Bag 5.1, 5.2 - Step 4



:: Wings / Electronics / Wheels Build - Bag 5.1, 5.2 - Step 5



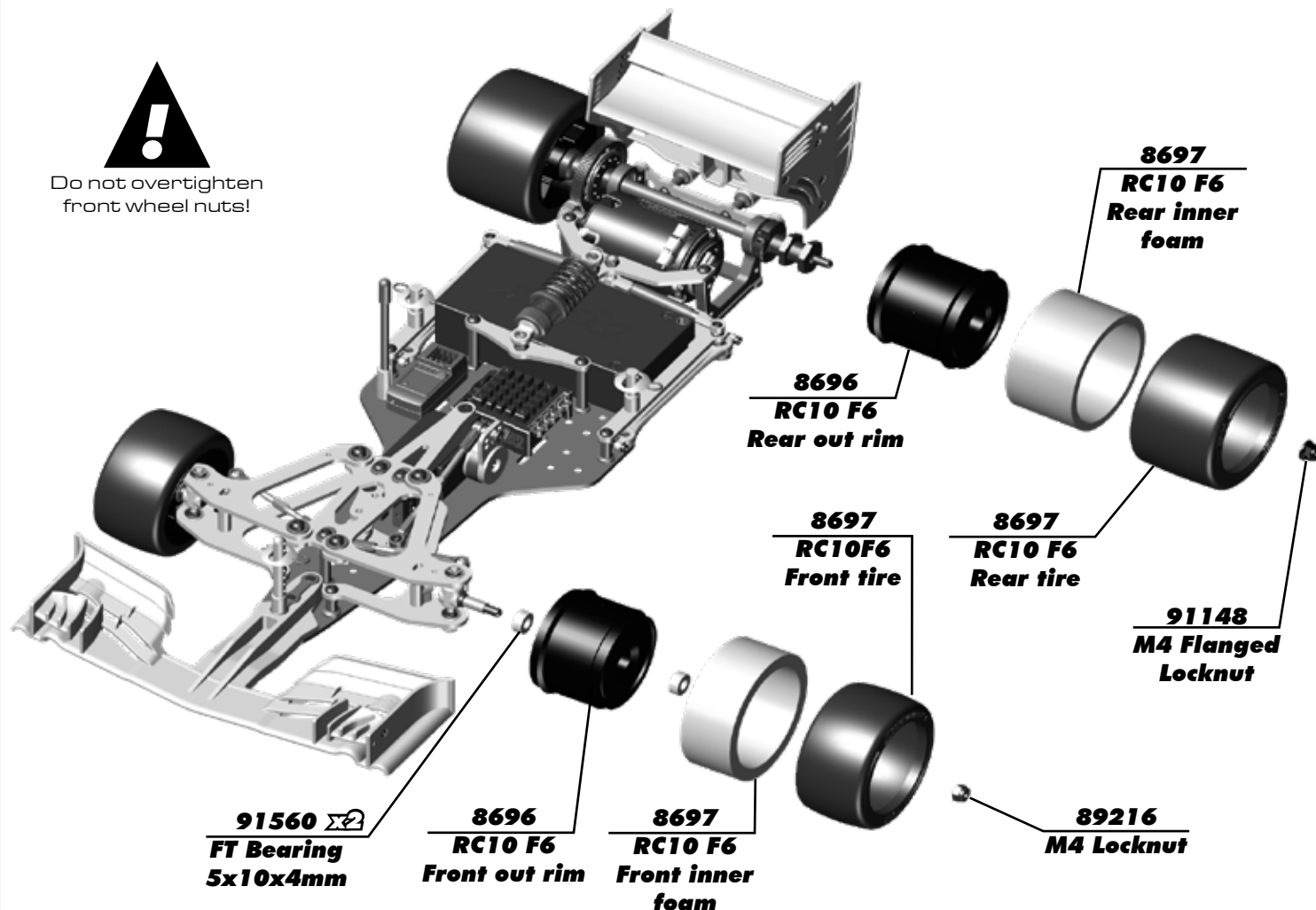
:: Wings / Electronics / Wheels Build - Bag 5.1, 5.2 - Step 6



:: Wings / Electronics / Wheels Build - Bag 5.1, 5.2 - Step 7



Do not overtighten
front wheel nuts!



:: Wings / Electronics / Wheels Build - Bag 5.1, 5.2 - Step 8



Painting Tips:

You will need to prep the body before you can paint it. Wash the inside thoroughly with warm water and liquid detergent. Dry the body using a clean, soft, lint-free cloth.

RC cars get painted from the inside. Using high quality masking tape, apply tape to the inside of the body to create a design. Spray (either rattle can or airbrush) the paint to the inside of the body (preferably dark colors first, lighter colors last).

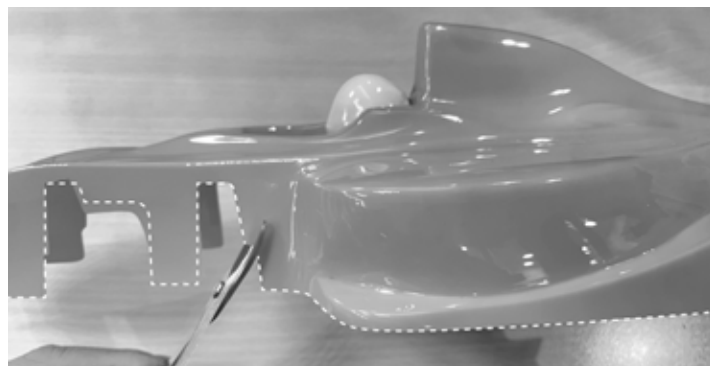
NOTE: use ONLY paint that is recommended for use with (polycarbonate) plastics. If you don't, you can destroy the plastic body!!!!).

After painting, cut the body along the trim lines. Make sure to drill or use a body reamer to make the holes for the body mounts and antenna!

:: Body - Step 1



Please trim the F6 body according to the picture below



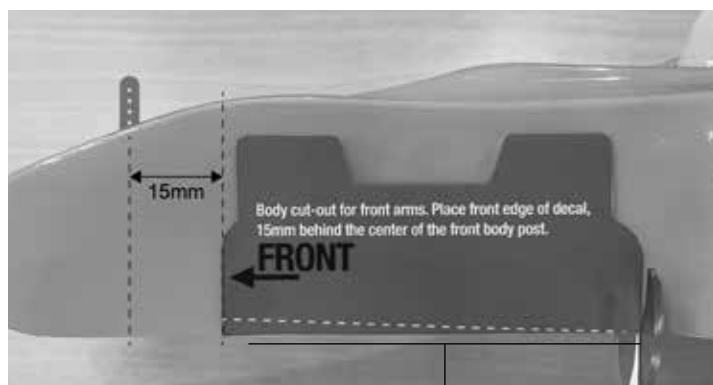
8698
RC10 F6
body, clear



Trim the deep gray portion

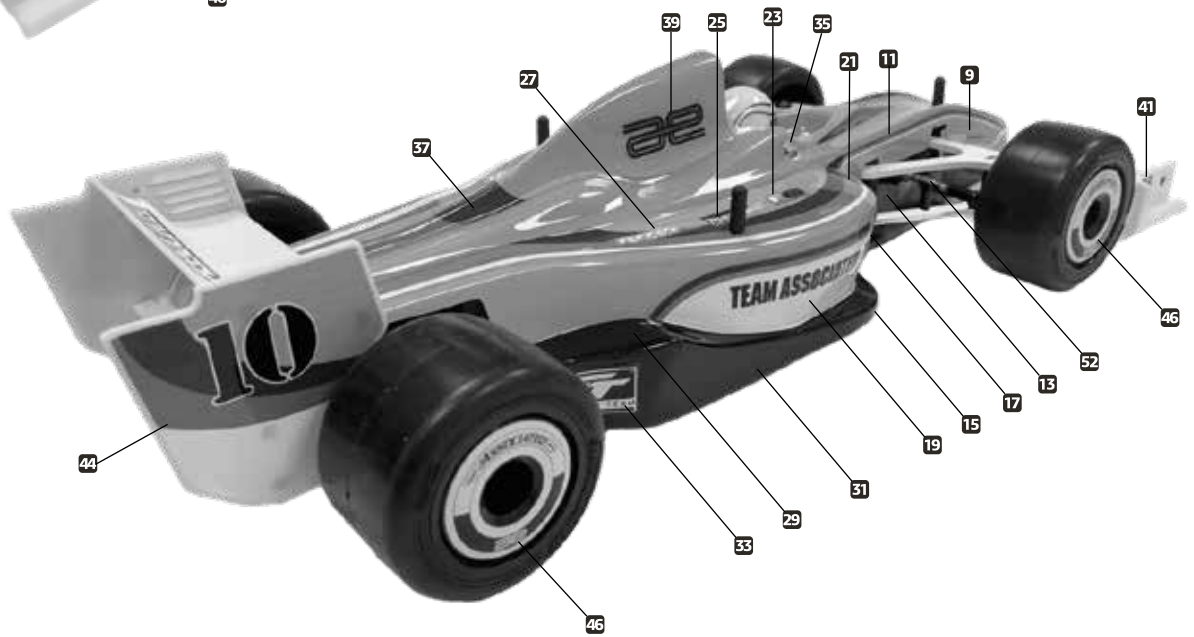
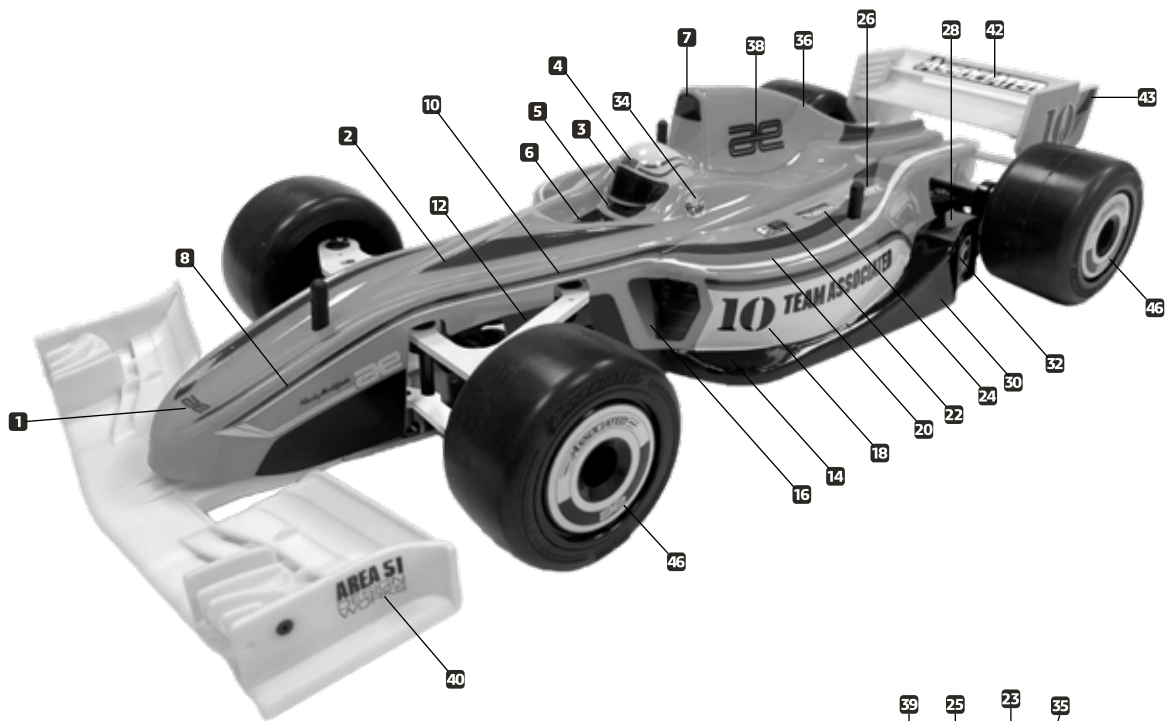


If you are using a different F1 body, please apply the 'Trim Label' before trimming the body. This will ensure proper installation on the chassis.



:: Body - Step 2**Drill hole 5mm x3****NOTE:** Wash the body and dry it

:: Body - Step 3



:: NOTE

Track Info:

Size: Small ☐ Medium ☐
 Large ☐ X-Large ☐

Surface: Carpet ☐ Asphalt ☐
 Indoor ☐ Outdoor ☐

Traction: Low ☐ Medium ☐
 High ☐ Wet ☐

Condition: Bumpy ☐ Smooth ☐

Temperature: Ambient ☐ Track ☐

Notes:

Vehicle Info:

Body: _____

Weight: _____

Notes: _____

Shock:

Piston: 3x1.1

Fluid: 30wt

Spring: Black

Rebound: 25%

Pre Load: 7.3mm

Free Length: 64.8mm

Notes: _____

Electronics:

Radio: _____

Servo: _____

EPA: Throttle: _____ % Brake: _____ %

ESC: _____

ESC Settings: _____

Motor: _____

Timing: _____

Pinion: _____ **Spur:** _____

Battery: _____

Notes: _____

Tires:

Front Tires: _____

Front Insert: _____

Rear Tire: _____

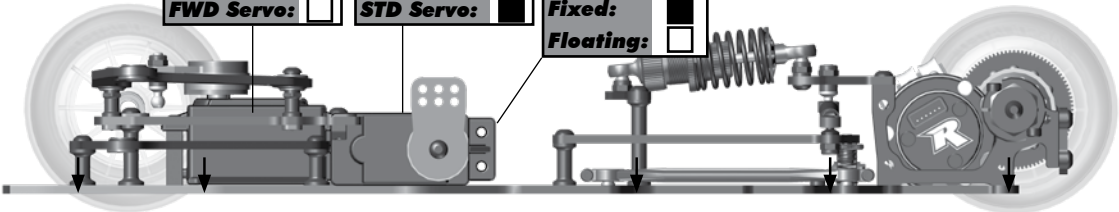
Rear Insert: _____

Wheel (F/R): _____

Notes: _____

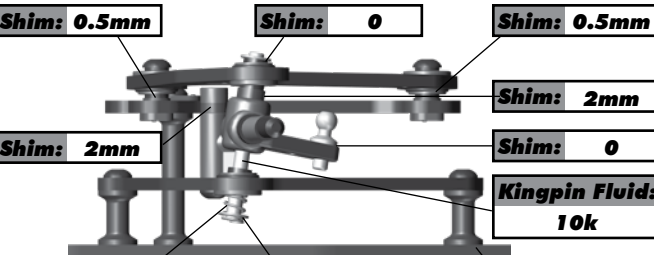
	Left	Right
Front Tire Additive:		
Additive Time:		
Rear Tire Additive:		
Additive Time:		

FWD Servo: ☐ **STD Servo:** ☒ **Fixed:** ☐
Floating: ☐



Droop: _____ **Ride Height:** _____ **Ride Height:** _____ **Droop:** _____ **Ride Height:** _____

Shim: 0.5mm **Shim:** 0 **Shim:** 0.5mm

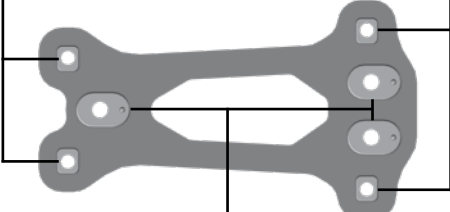


Shim: 2mm **Shim:** 0 **Kingpin Fluid:** 10k

Spring: 0.016 **Shim:** 0 **Shim:** 0

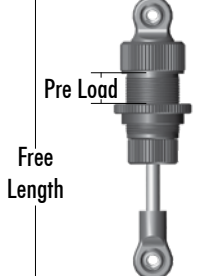
Camber: 1.0° 1.5° 2.0° 2.5°

Plastic: ☒ **Aluminum:** ☐



Damper Tube: _____

Fluid: 10k

Pre Load  **Free Length**

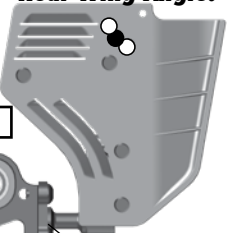
Caster: 3° 6° 9° 12°

Plastic: ☒ **Aluminum:** ☐

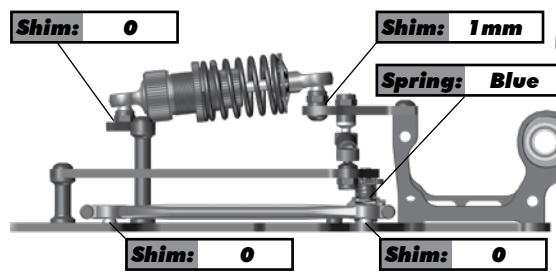
Axle Height:

1.0	0.75	0.5	0.25	0	0.25	0.5	0.75	1.0	STD	+1mm
☐	☐	☐	☐	☒	☐	☐	☐	☐	☒	☐

Rear Wing Angle:

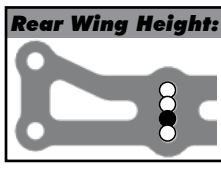


Shim: 0 **Shim:** 1mm **Spring:** Blue



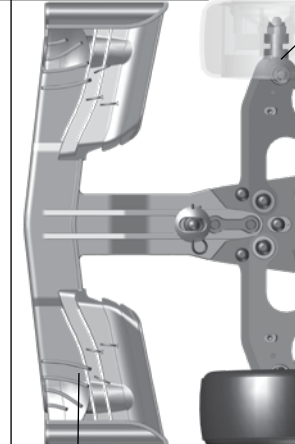
Shim: 0 **Shim:** 0 **Shim:** 0

Rear Wing Height:



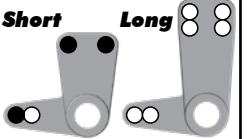
Width: _____ **Axle Shim:** 0 **Axle Shim:** 0 **Width:** _____

Front Wing: Kit



Steering Bellcrank:

Short ☐ Long ☐

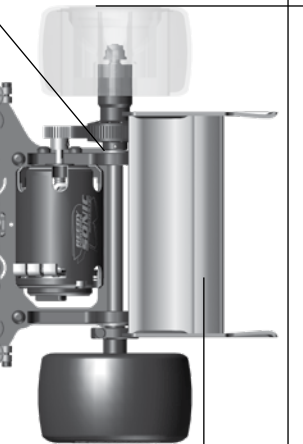


Battery:

Transvers: ☒ **Back:** ☒

Inline: ☐ **Fwd:** ☐ **Back:** ☐

Rear Wing: Kit



Track Info:

Size: Small ☐ Medium ☐
 Large ☐ X-Large ☐
Surface: Carpet ☐ Asphalt ☐
 Indoor ☐ Outdoor ☐
Traction: Low ☐ Medium ☐
 High ☐ Wet ☐
Condition: Bumpy ☐ Smooth ☐
Temperature: Ambient ☐ Track ☐
Notes: _____

Vehicle Info:

Body: _____
Weight: _____
Notes: _____

Shock:

Piston: _____
Fluid: _____
Spring: _____
Rebound: _____
Pre Load: _____
Free Length: _____
Notes: _____

Electronics:

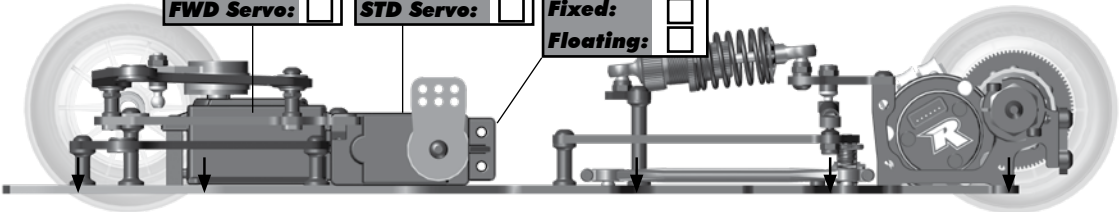
Radio: _____
Servo: _____
EPA: Throttle: _____ % Brake: _____ %
ESC: _____
ESC Settings: _____
Motor: _____
Timing: _____
Pinion: _____ **Spur:** _____
Battery: _____
Notes: _____

Tires:

Front Tires: _____
Front Insert: _____
Rear Tire: _____
Rear Insert: _____
Wheel (F/R): _____
Notes: _____

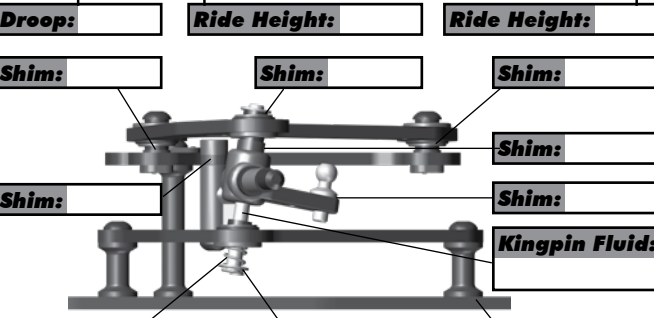
	Left	Right
Front Tire Additive:		
Additive Time:		
Rear Tire Additive:		
Additive Time:		

FWD Servo: ☐ **STD Servo:** ☐ **Fixed:** ☐
Floating: ☐



Droop: _____ **Ride Height:** _____ **Ride Height:** _____ **Droop:** _____ **Ride Height:** _____

Shim: _____ **Shim:** _____ **Shim:** _____



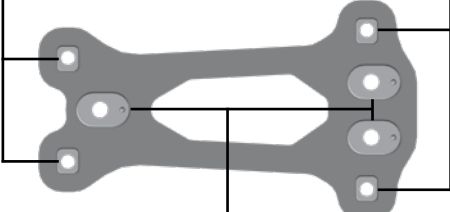
Shim: _____ **Shim:** _____ **Kingpin Fluid:** _____

Spring: _____ **Shim:** _____ **Shim:** _____

Camber: 1.0° 1.5° 2.0° 2.5°

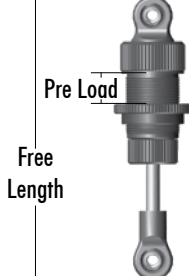
Plastic: ☐ ☐ ☐ ☐

Aluminum: ☐ ☐ ☐ ☐



Damper Tube: _____

Fluid: _____



Pre Load _____
Free Length _____

Caster: 3° 6° 9° 12°

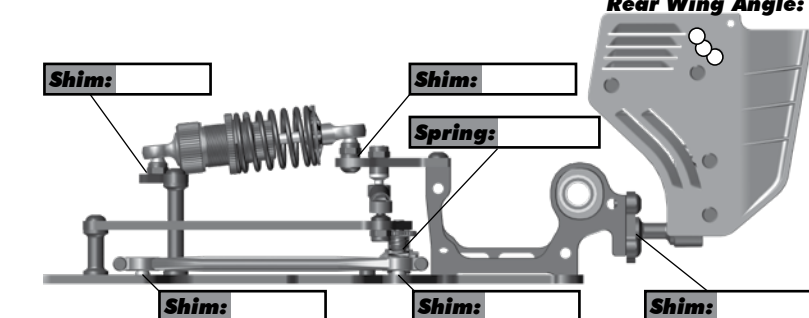
Plastic: ☐ ☐ ☐ ☐

Aluminum: ☐ ☐ ☐ ☐

Axle Height:

1.0	0.75	0.5	0.25	0	0.25	0.5	0.75	1.0	STD	+1mm
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

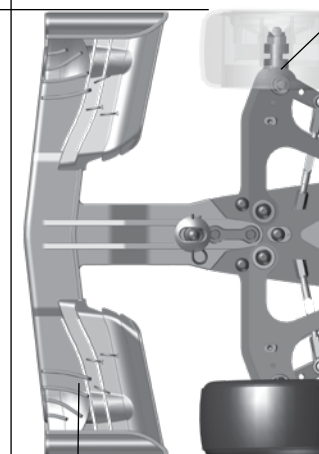
Rear Wing Angle:



Shim: _____ **Shim:** _____ **Spring:** _____

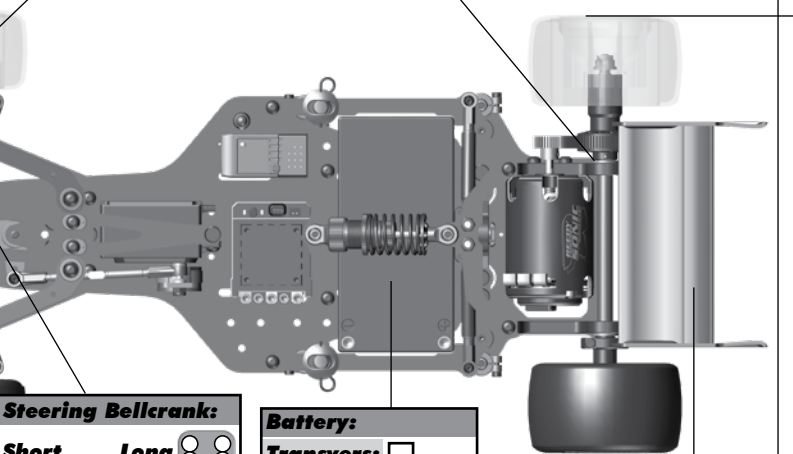
Shim: _____ **Shim:** _____ **Shim:** _____

Width: _____ **Axle Shim:** _____



Front Wing: _____

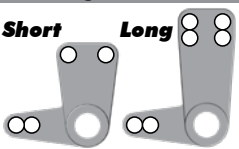
Axle Shim: _____ **Width:** _____



Rear Wing: _____

Steering Bellcrank:

Short ☐ Long ☐



Battery:

Transvers: ☐ **Fwd** ☐ **Back** ☐

Inline: ☐ **Fwd** ☐ **Back** ☐

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