

[HOONIGAN]

HOONICORN

APEX²

1:10 SCALE 4WD ON ROAD READY-TO-RUN

#30124



SCALE 1:10 VEHICLE

RTR READY TO RUN

4 WHEEL DRIVE

ELEC. POWERED

ON ROAD

2.4GHz

PRE-PAINTED

WeAreAE 20

CHAMPIONS *by* **DESIGN**

TEAM ASSOCIATED

:: 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.

:: Vehicle Features

- A-arm front and rear independent suspension
- Steel dog bones and drive axles
- Threaded shock bodies
- Oil filled shocks
- Sealed front and rear gear differentials
- Steel ring and pinion gears
- Adjustable hook and loop battery straps
- Full metal ball bearings
- 550 sized brushed motor
- Programmable ESC [with aftermarket program card]
- Injection molded brake calipers and rotors
- Sealed center driveline
- Aluminum motor plate
- Adjustable shock mounting locations
- Bolt on steering plates
- Bleeder screws included on shock caps
- Molded one -piece tie rods and steering links
- Sealed receiver box
- Adjustable body post height locations
- Steel 25T servo horn
- Active rear toe suspension design
- G10 shock towers
- G10 main chassis
- 'Shorty' battery box
- POM filled injection molded pivot balls

:: 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 website for suggestions):

- AA-size batteries for transmitter (#302 x4)
- 2/3S LiPo battery pack w/High Current T Plug (shorty packs only).
- Peak Detection Charger or LiPo Compatible Charger

:: Other Helpful Items

- | | |
|---|--|
| • Silicone Shock Fluid (Refer to website for complete listings) | • Silicone Diff Fluid (Refer to website for complete listings) |
| • Green Slime shock lube (AE # 1105) | • Cyanoacrylate glue (AE # 1597) |
| • Thread Locking Compound (AE # 1596) | • Body Scissors (AE # 1737) |
| • 7 Piece Hex Driver Set (AE # 1650) | • FT Nut Drivers (AE #1519) |
| • Calipers or a Precision Ruler | • Reamer / Hole Punch |
| | • Hobby Knife |
| | • Wire Cutters |
| | • Soldering Iron |
| | • Needle Nose Pliers |

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



Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Hardware - 1:1 Scale View

Flat Head Screws (fhcs)

	2.5x10mm (31350)
	2.5x14mm (41077)
	3x6mm (31541)
	3x8mm (25201)
	3x10mm (25202)
	3x12mm (25203)
	3x14mm (89208)

Button Head Screws (bhcs)

	2x3mm (31509)
	3x4mm (91158)
	3x5mm (31530)
	3x6mm (31531)
	3x8mm (31532)
	3x10mm (25211)
	3x12mm (89202)
	3x14mm (25187)
	3x16mm (89203)
	3x18mm (2308)
	3x20mm (25188)
	3x22mm (25189)
	3x24mm (89204)
	3x26mm (89205)
	3x28mm (41078)

LP Socket Head Screws (lp shcs)

	3x6mm (41089)
	3x10mm (41090)
	3x16mm (41093)
	3x20mm (41091)

Socket Head Screws (shcs)

	2x5mm (31511)
	2x8mm (7187)
	2.5x6mm (41079)
	2.5x10mm (41087)
	2.5x14mm (71032)
	2.5x16mm (41086)

Set Screws

	3x3mm (25225)
	3x16mm (4689)
	4x16mm (4677)

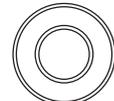
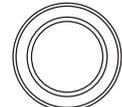
Pivot Balls

	Pivot Ball, Short (42041)
	Pivot Ball, Long, Upper Shock (42041)

Locknuts

	M3 Locknuts (25215) Aluminum (31550)
	M4 Locknut W/Flange (25391)

Bearings

	4x8x3mm (91568)
	5x10x4mm (91560)
	7x14x3.5mm (91474)
	10x15x4mm (91563)

Shims and Washers

	3x7mmx1mm (42260)
	3x7mmx2mm (42260)
	3x7x3mm (42260)
	3x7x5mm (42260)
	3x7x7mm (42260)

Misc. Screws

	Shoulder Screw 3x4x10mm (42070)
	4x12mm Screw Pin (42022)
	Pin 2x11mm (42019)

:: Table of Contents

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9.....Gear Differential Build	

:: 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.

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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.



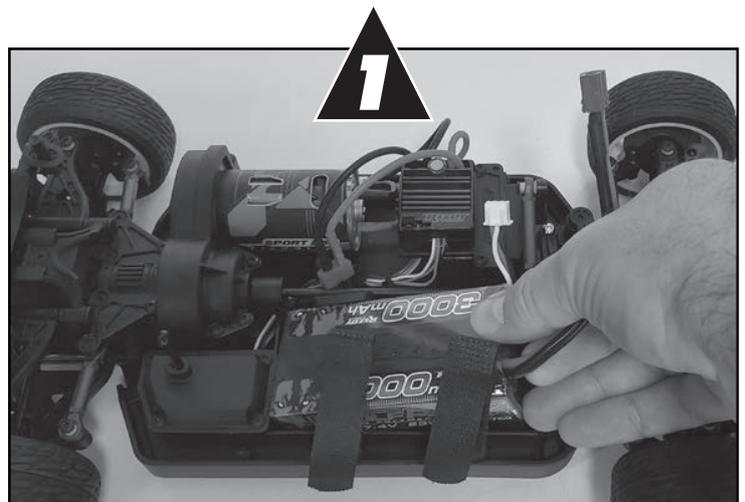
**Peak Detection
Quick Charger**

:: Quick Start Guide - (cont.)

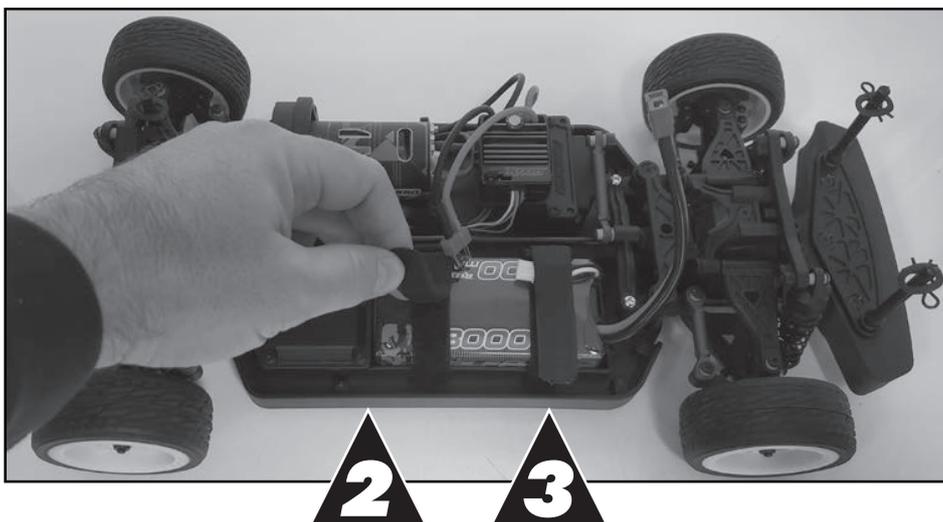
Battery Installation:

1. Install the battery with the battery wires directed towards the front of the vehicle.
2. Secure the hook and loop strap near the rear shock tower.
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.)



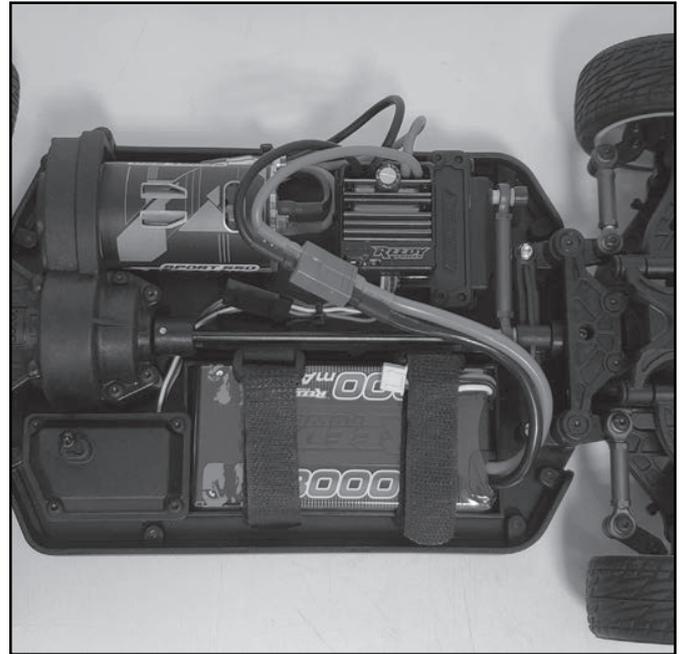
:: Quick Start Guide - (cont.)

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 correct gear ratio required 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.



:: Quick Start Guide - (cont.)

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

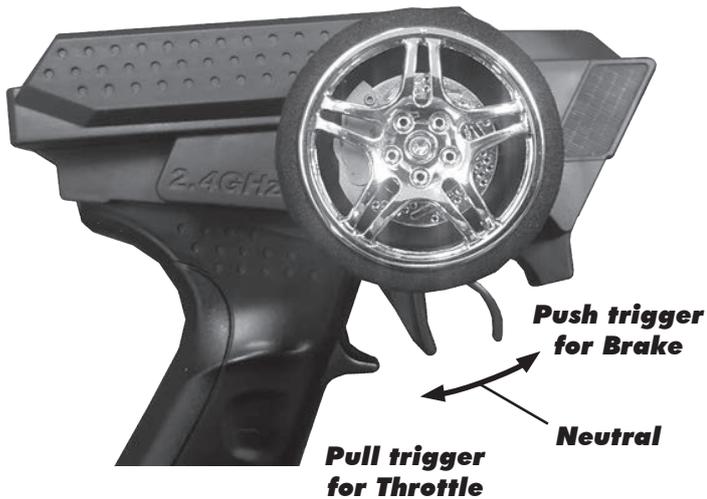
:: Quick Start Guide - (cont.)

Radio System Tuning and Controls:

DO NOT hold the trigger when turning on the radio.

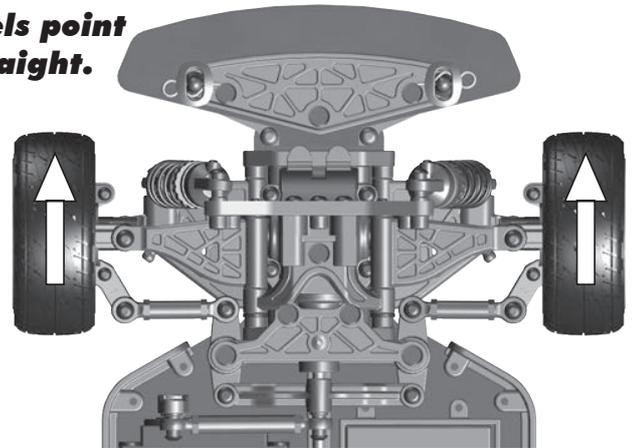
If using optional battery for transmitter, be sure to plug it in correctly. Plugging in a battery backwards can cause damage.

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



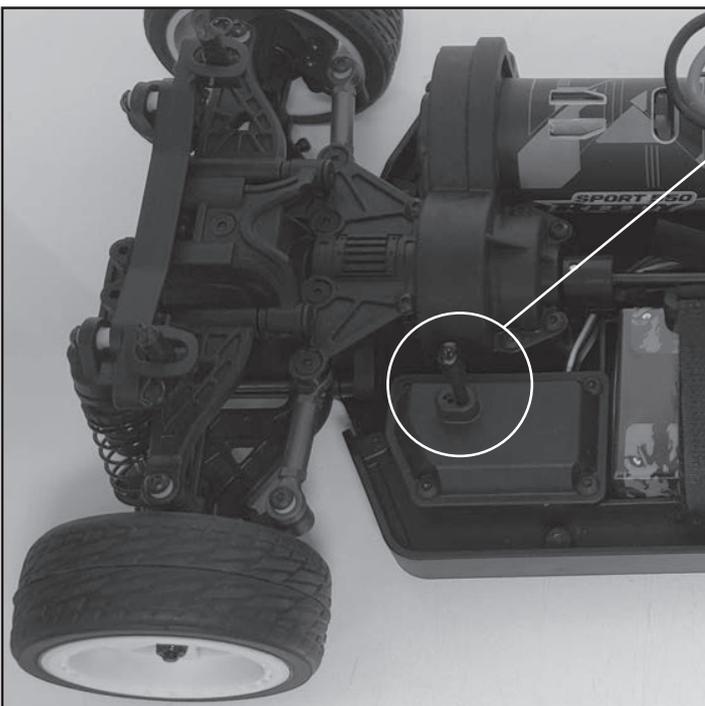
Throttle set to Neutral!

Adjust steering trim so front wheels point straight.



:: Quick Start Guide - (cont.)

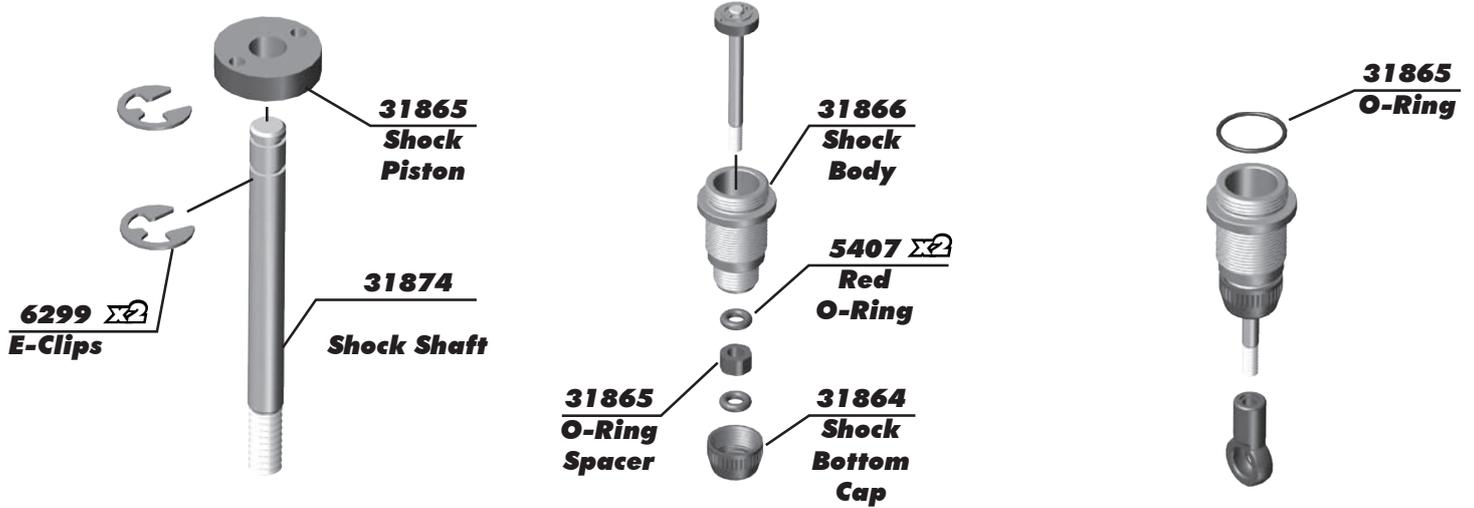
Install antenna wire through antenna tube, then install antenna tube as shown.



**Install body and body clips.
Ready to go!**

:: Shocks Build - Step 1

Build 4



:: Shocks Build - Step 2

31510 2x4mm BHCS

31864 Shock Cap (Molded)

Shock fluid #5422

Front/Rear Shock: 30wt

Step 1-3 **Step 3-4** **Step 5-6** **Step 7**

Shock Bleeding Steps:

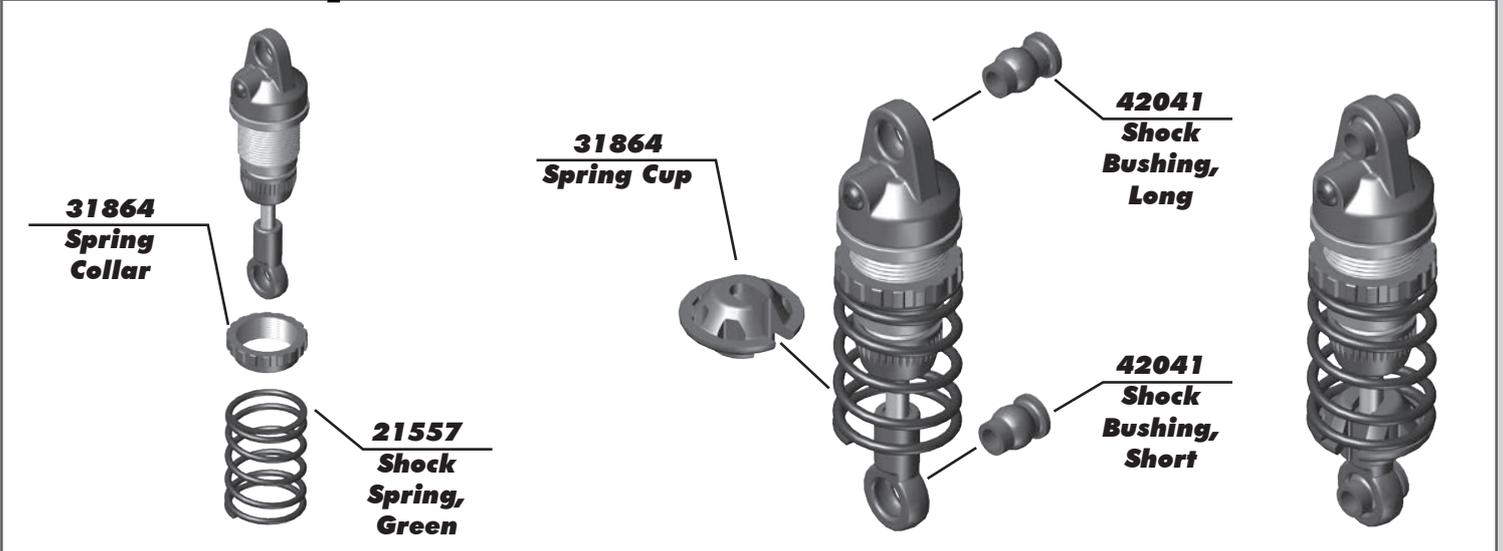
1. Pull shock shaft down.
2. Fill shock body 3/4 full with silicone fluid.
3. Slowly move the shock shaft up and down to remove air from under piston.
4. Wait for bubbles to come to surface.
5. Fill shock body to top with silicone fluid.
6. Place a drop of oil in the cap and on cap threads.
7. Install cap and tighten completely.
8. Slowly compress shaft all the way to the top. If there is pressure at the top of the stroke, there is too much oil or air. You must bleed it out.
9. Slowly pull shaft out.
10. Unscrew the cap 3/4 turn and tilt the shock at a slight angle.
11. Slowly compress the shaft to push out excess oil and air. You should see bubbles coming out from under the cap.
12. With the shaft compressed, tighten the cap and re-check for pressure at the top of the stroke. If there is still pressure, repeat steps 9 thru 11.

Free Length: 60mm

Stroke: 12mm

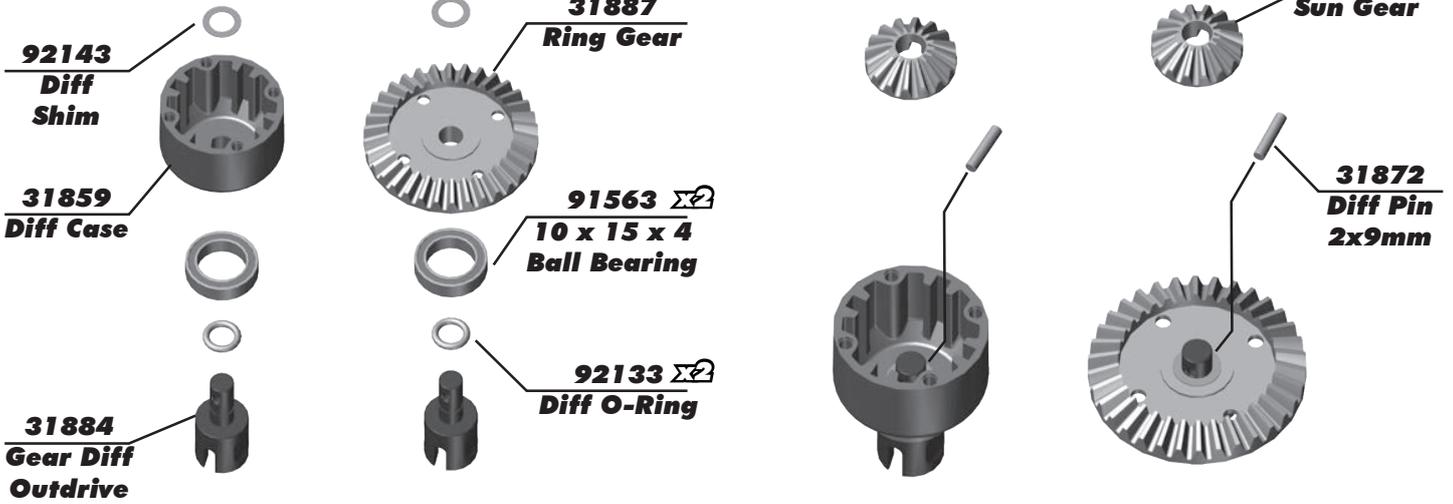
Step 9-10

:: Shocks Build - Step 3

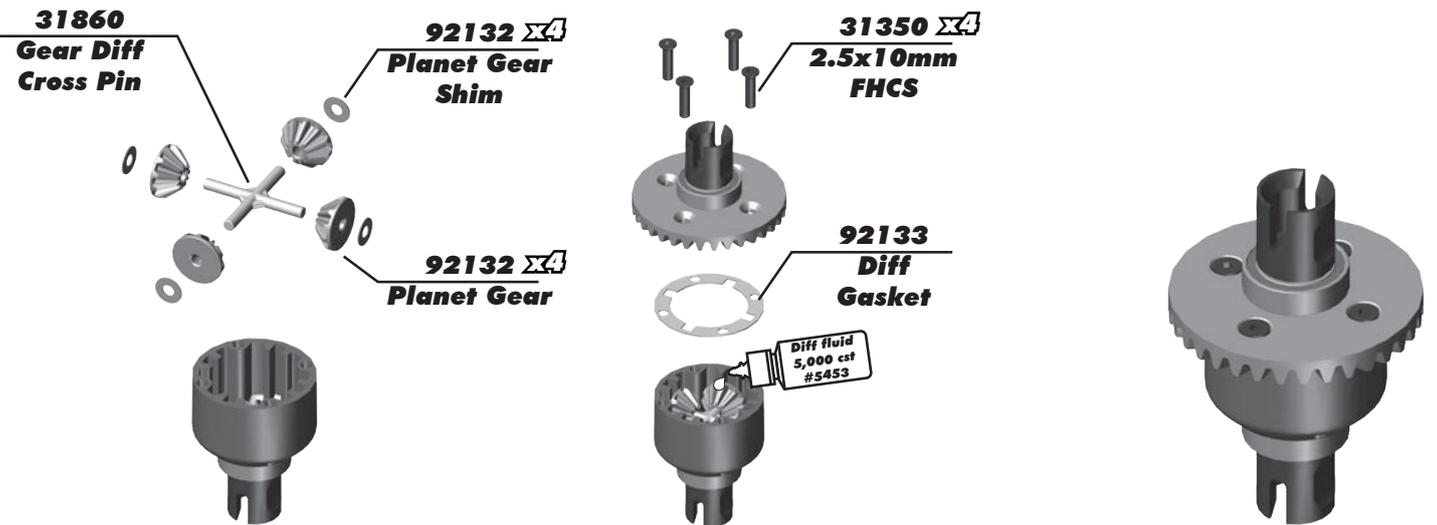


:: Gear Diff Build - Step 1

Build 2

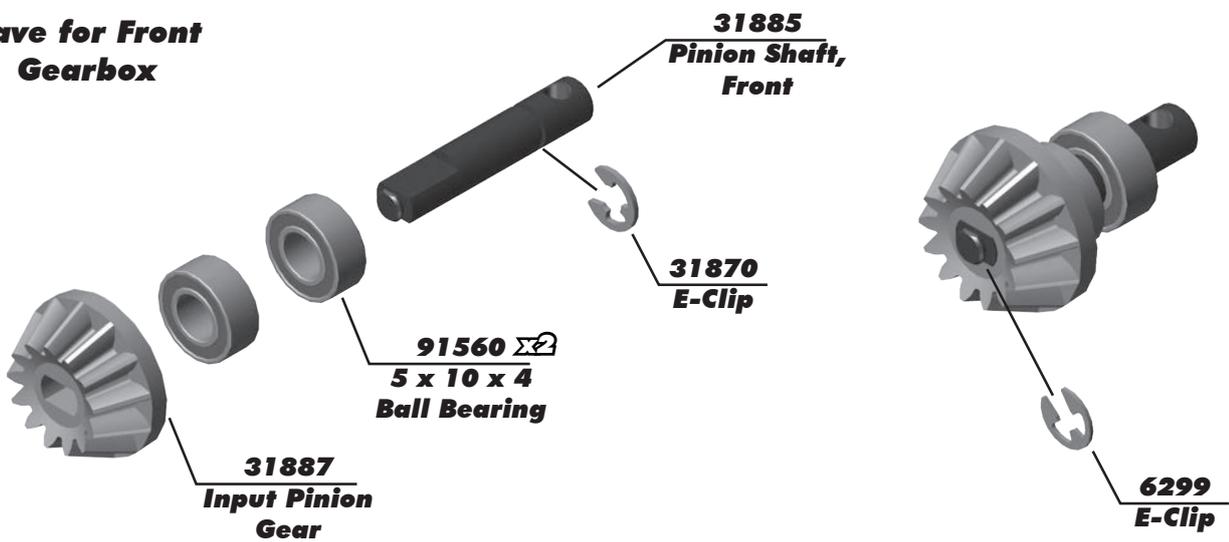


:: Gear Diff Build - Step 2



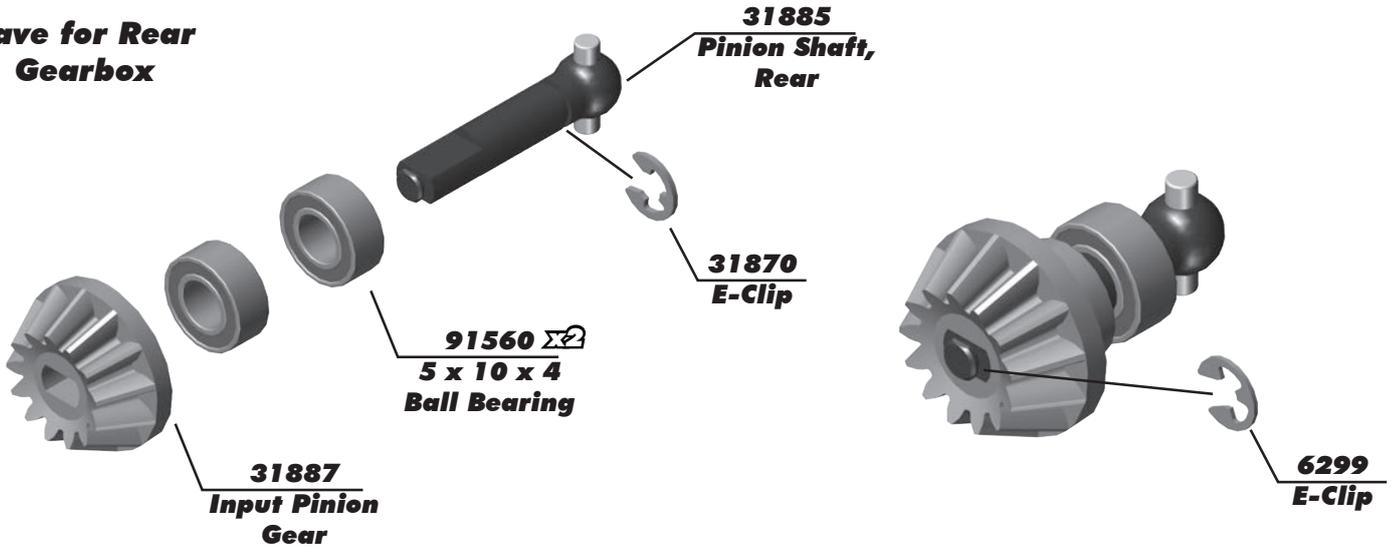
:: Front / Rear Suspension Build - Step 3

Save for Front Gearbox



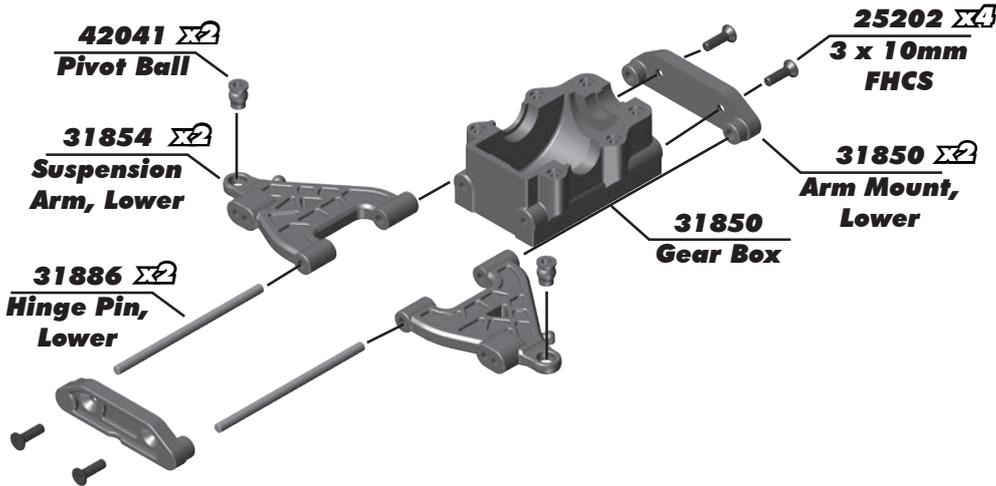
:: Front / Rear Suspension Build - Step 4

Save for Rear Gearbox

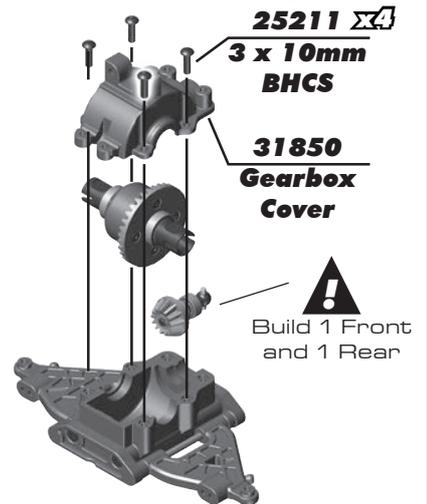


:: Front / Rear Suspension Build - Step 5

Build 2

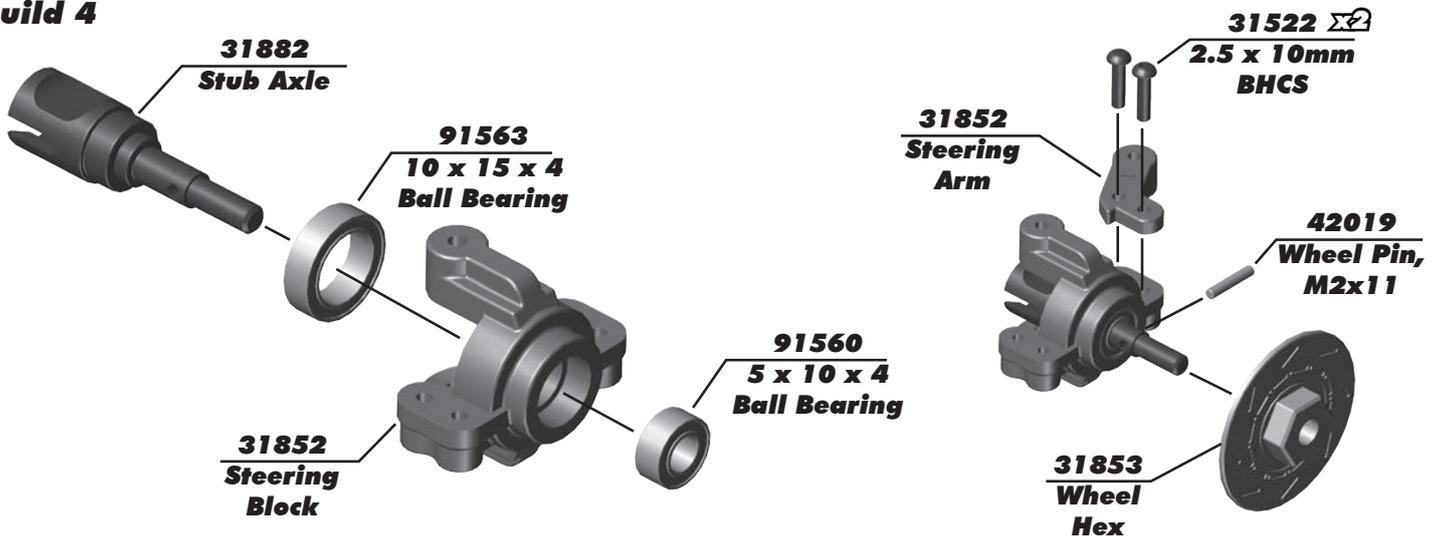


Build 2 - 1 Front, 1 Rear



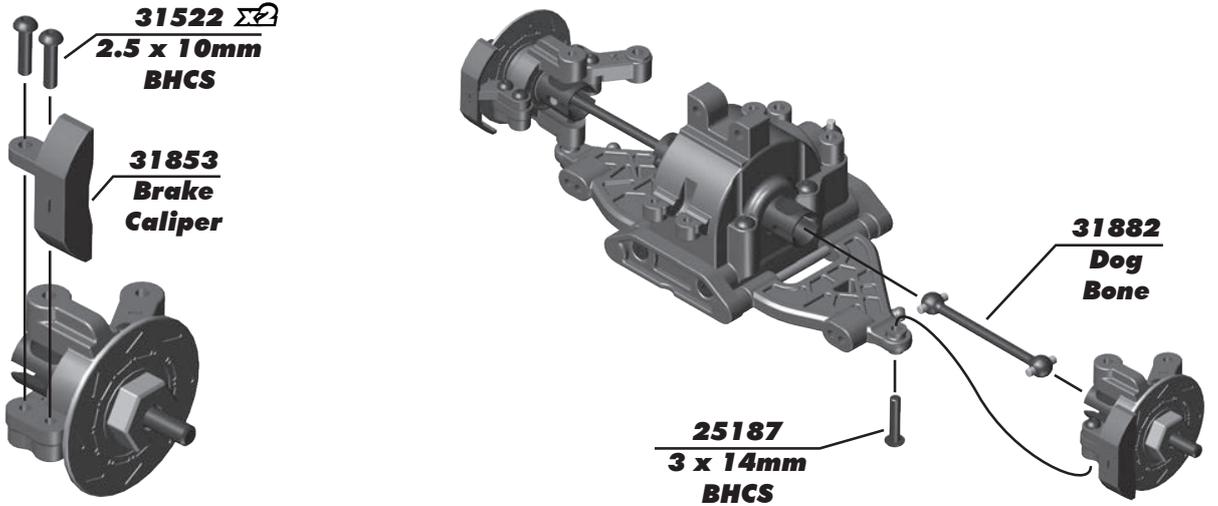
:: Front / Rear Suspension Build - Step 6

Build 4



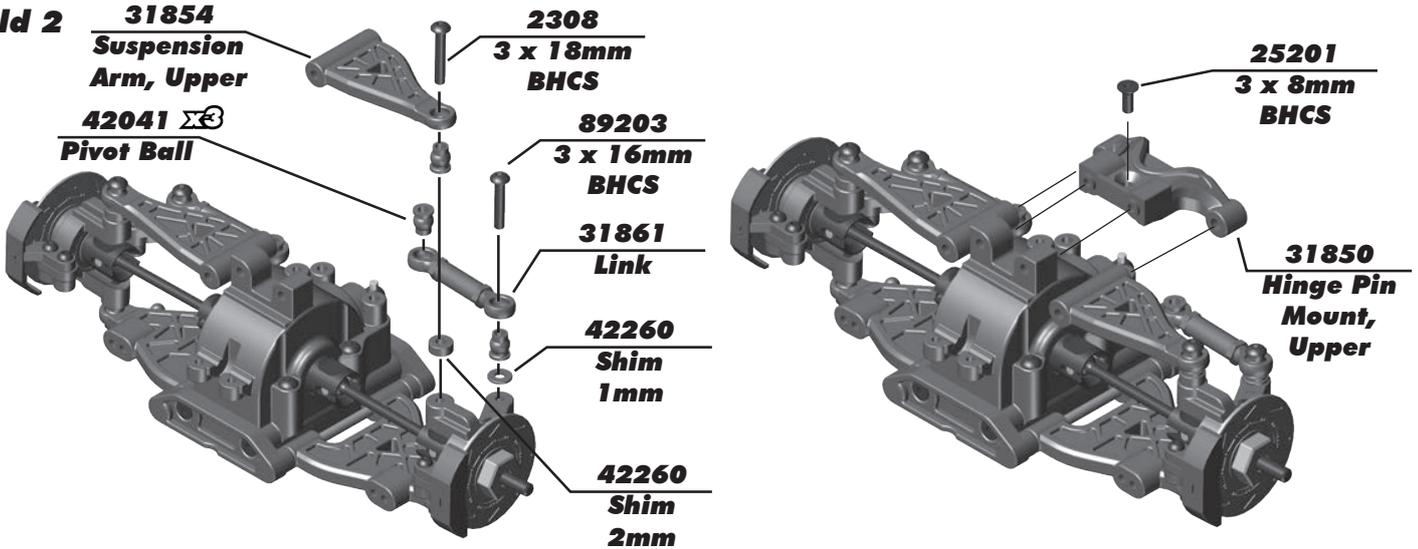
:: Front / Rear Suspension Build - Step 7

Build 4



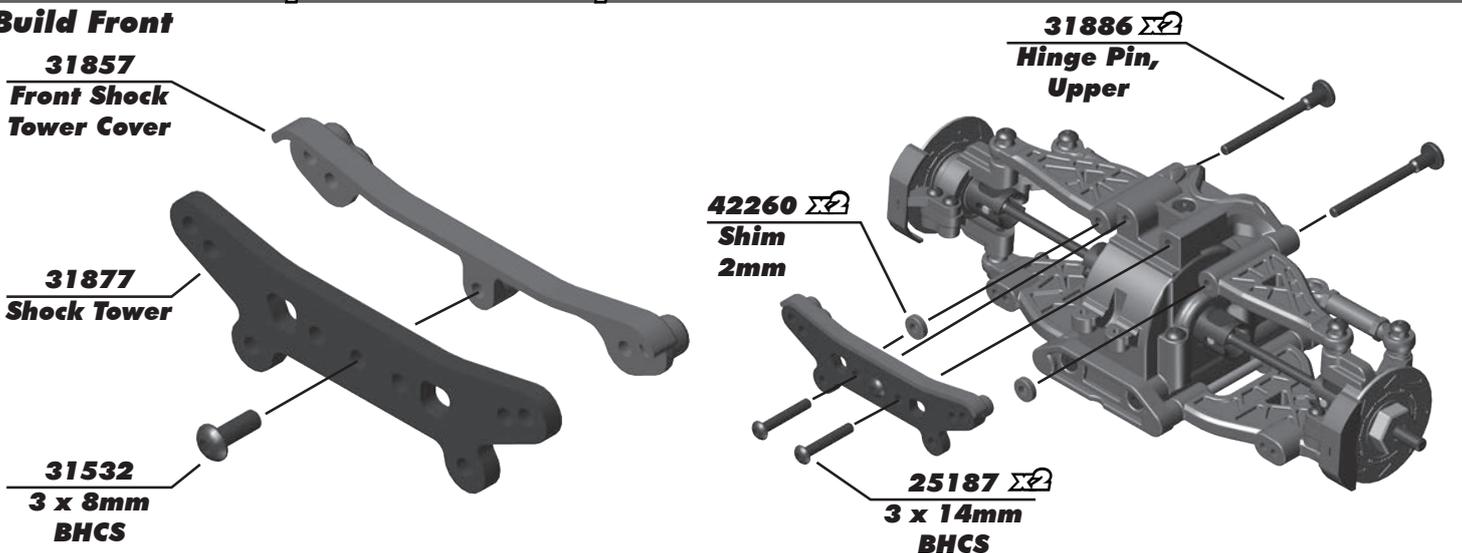
:: Front / Rear Suspension Build - Step 8

Build 2



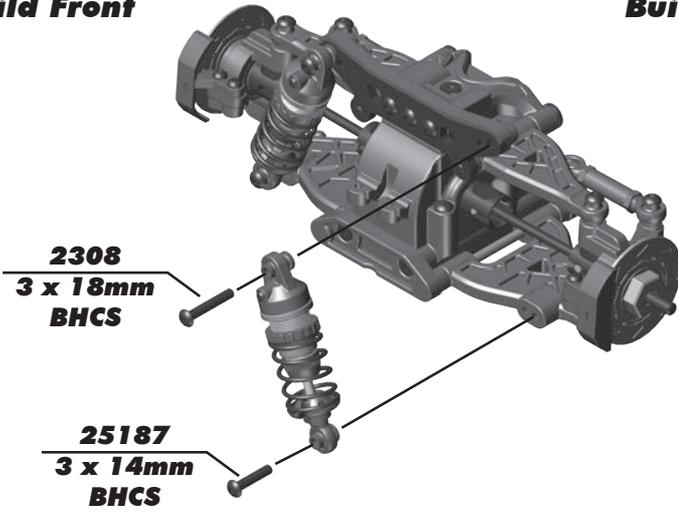
:: Front / Rear Suspension Build - Step 9

Build Front



:: Front / Rear Suspension Build - Step 10

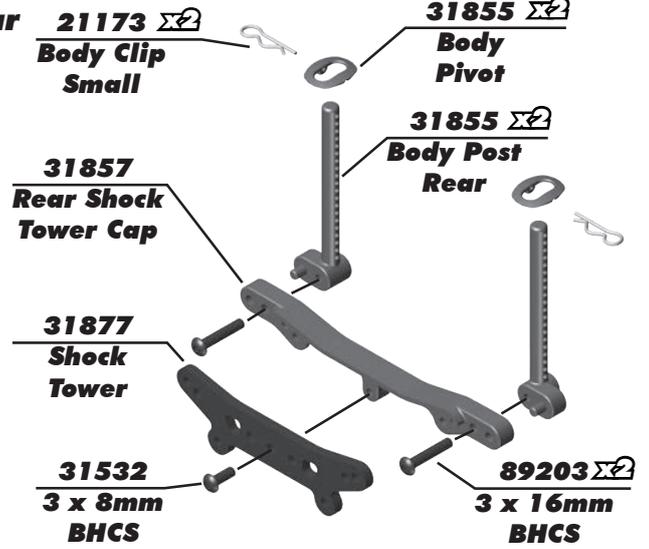
Build Front



2308
3 x 18mm
BHCS

25187
3 x 14mm
BHCS

Build Rear



21173 $\Sigma 2$
Body Clip
Small

31855 $\Sigma 2$
Body
Pivot

31857
Rear Shock
Tower Cap

31855 $\Sigma 2$
Body Post
Rear

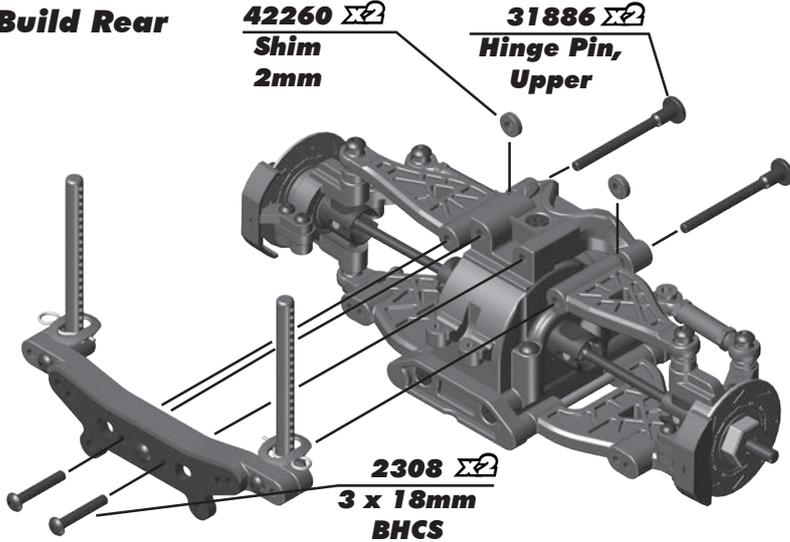
31877
Shock
Tower

31532
3 x 8mm
BHCS

89203 $\Sigma 2$
3 x 16mm
BHCS

:: Front / Rear Suspension Build - Step 11

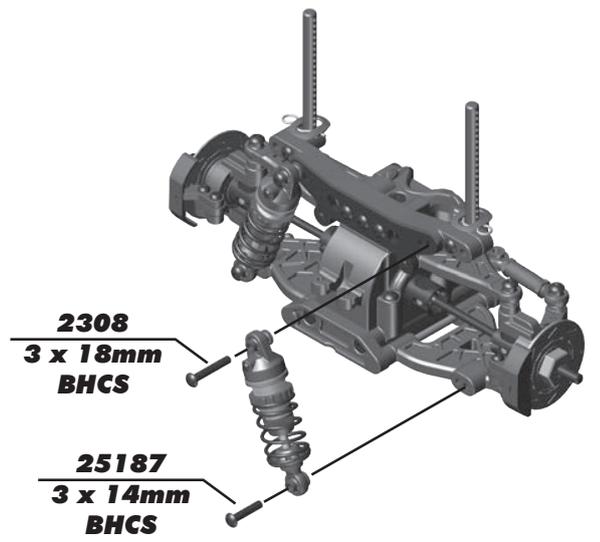
Build Rear



42260 $\Sigma 2$
Shim
2mm

31886 $\Sigma 2$
Hinge Pin,
Upper

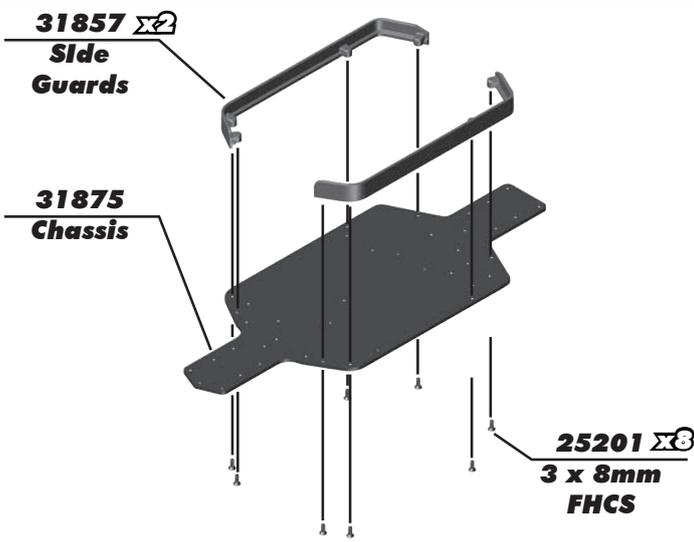
2308 $\Sigma 2$
3 x 18mm
BHCS



2308
3 x 18mm
BHCS

25187
3 x 14mm
BHCS

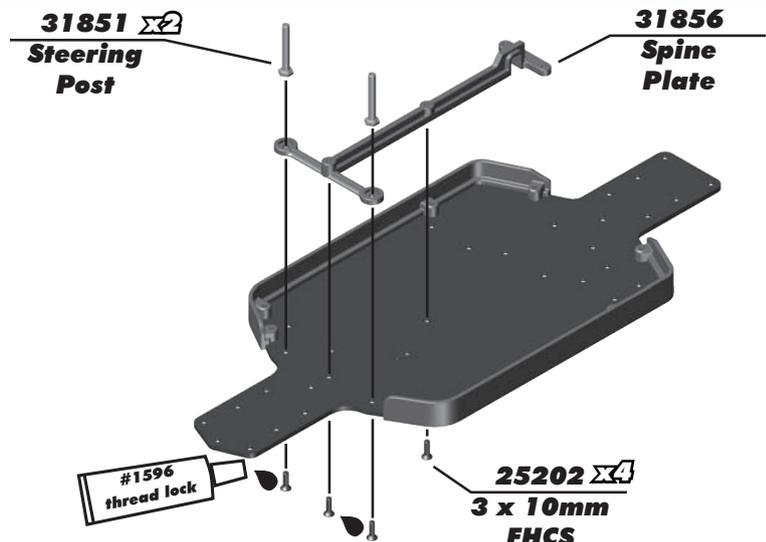
:: Chassis Build - Step 1



31857 $\Sigma 2$
Side
Guards

31875
Chassis

25201 $\Sigma 8$
3 x 8mm
FHCS



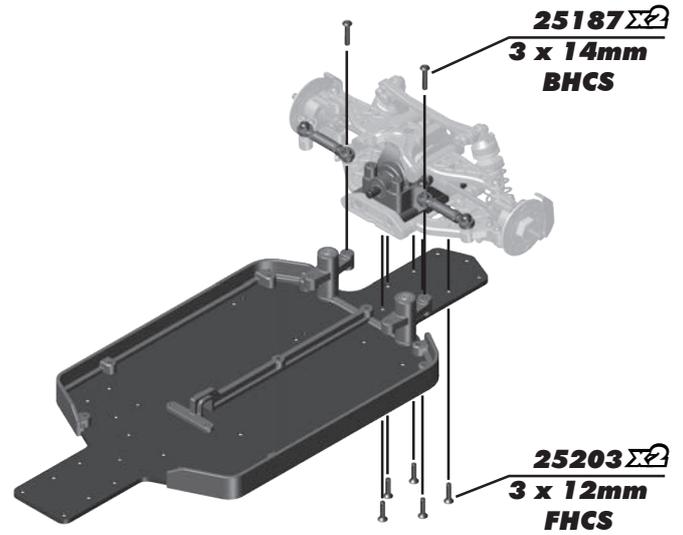
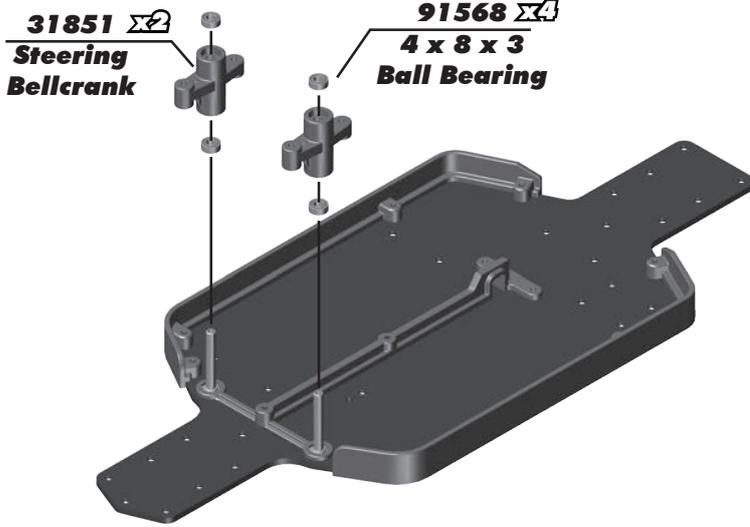
31851 $\Sigma 2$
Steering
Post

31856
Spine
Plate

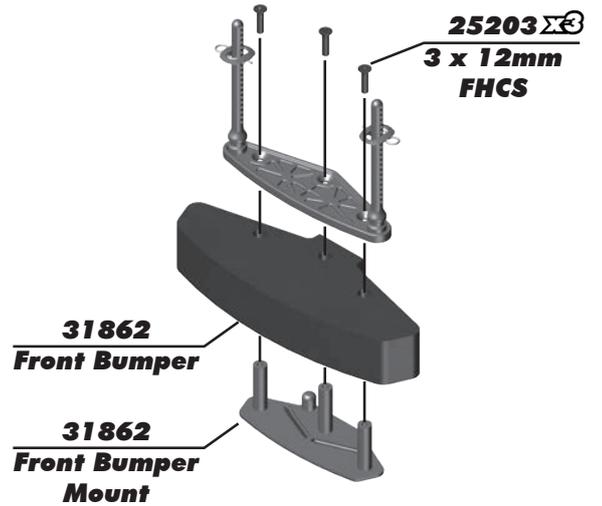
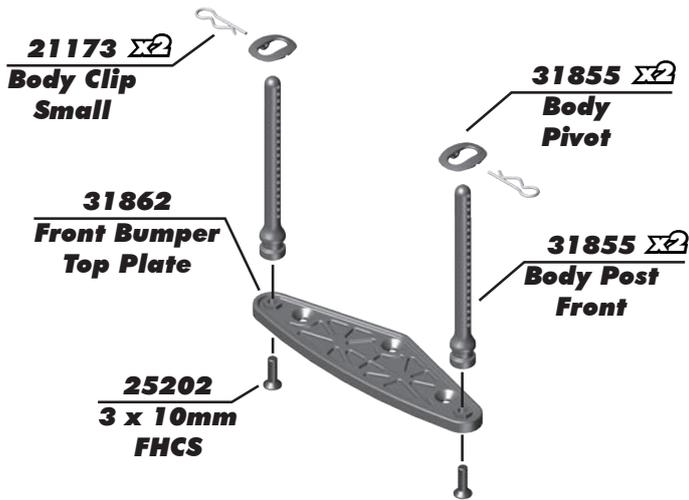
#1596
thread lock

25202 $\Sigma 4$
3 x 10mm
FHCS

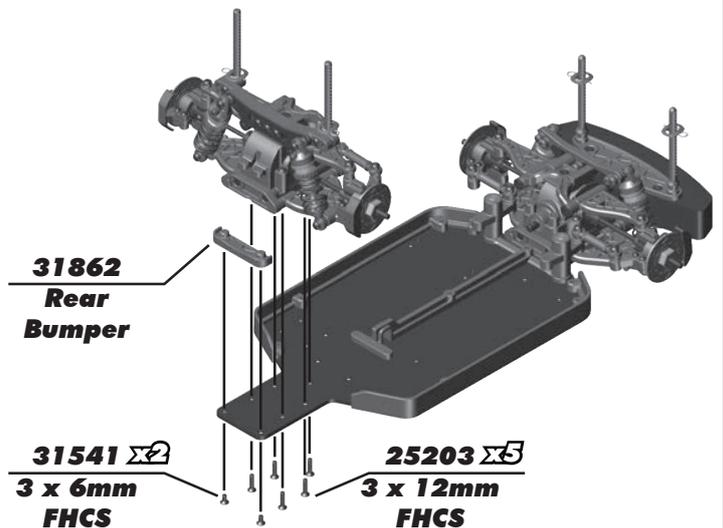
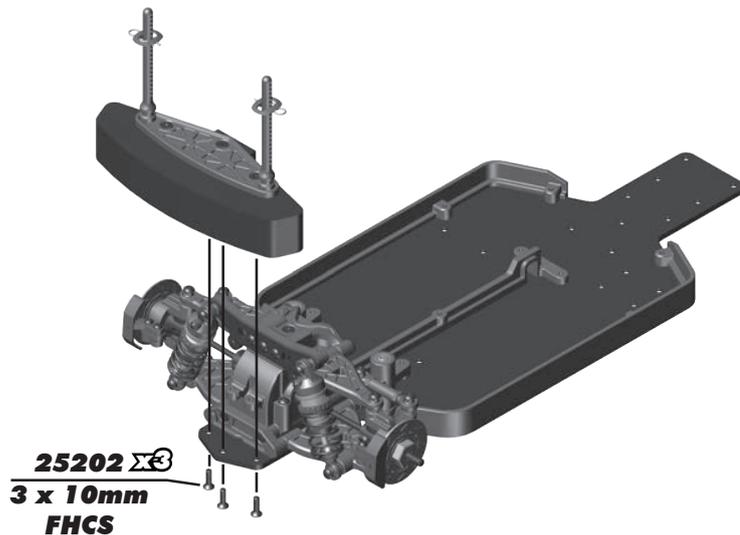
:: Chassis Build - Step 2



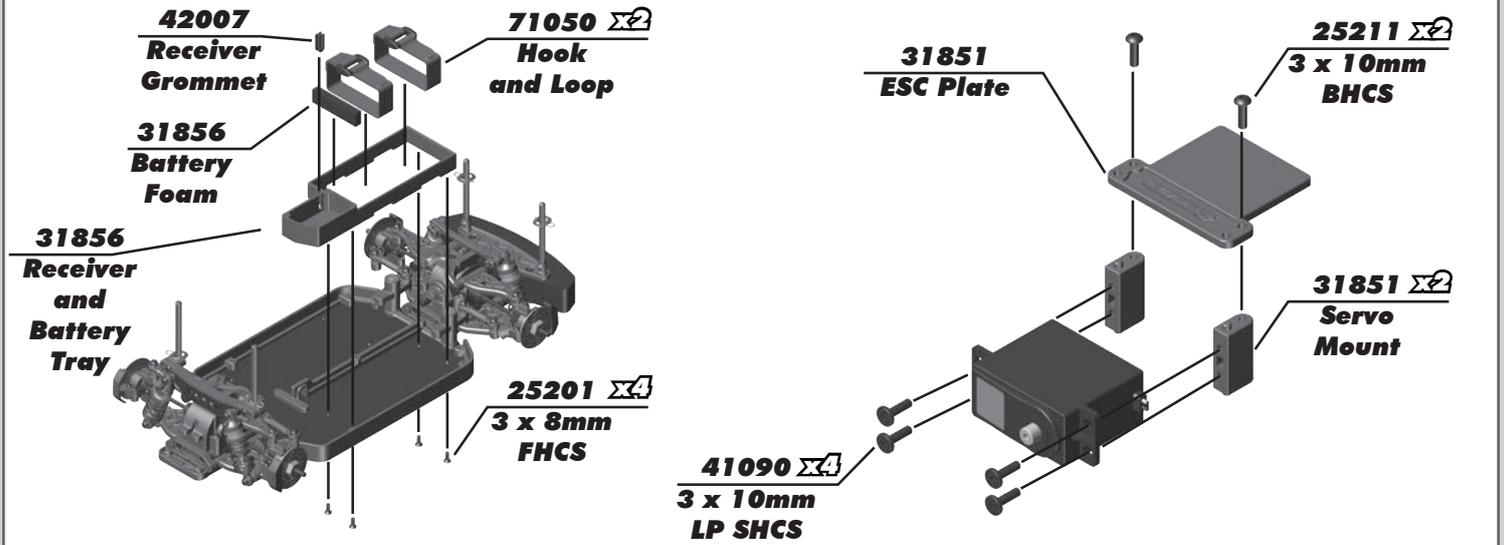
:: Chassis Build - Step 3



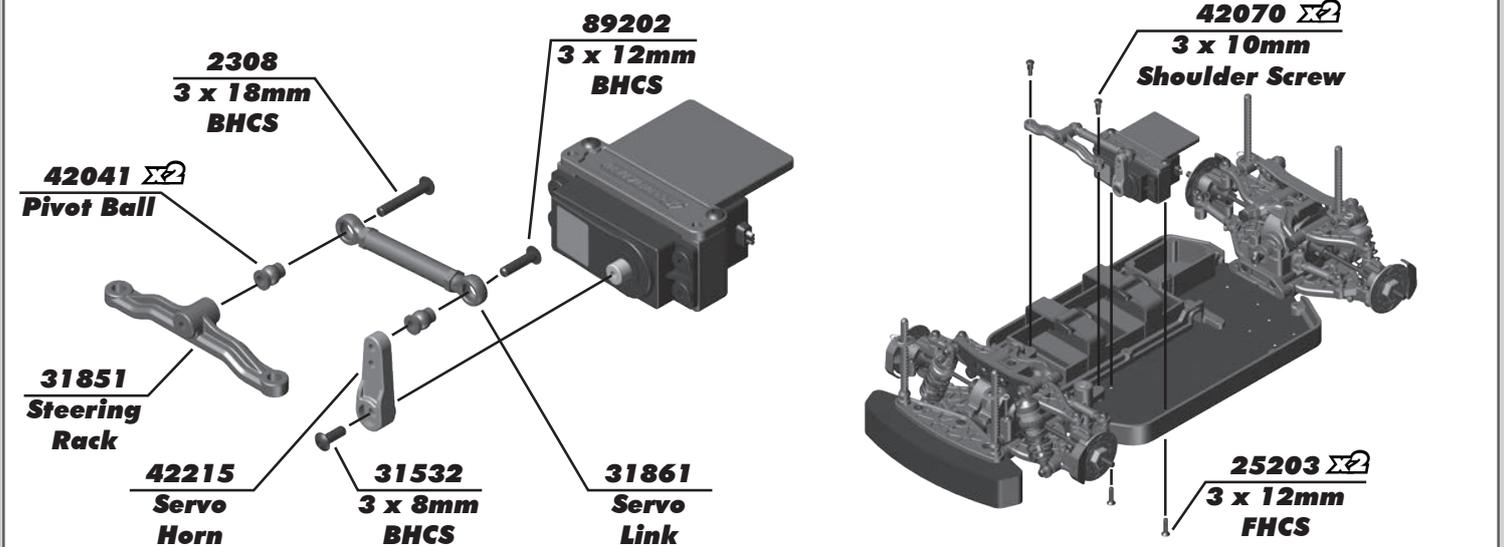
:: Chassis Build - Step 4



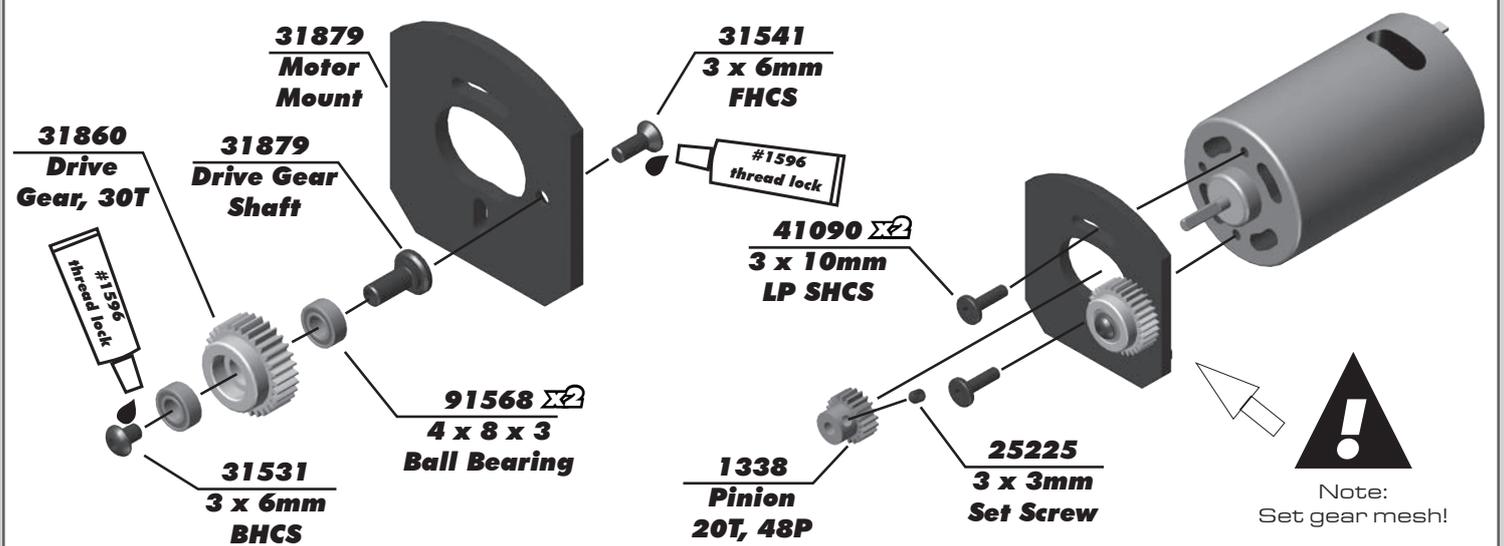
:: Electronics Build - Step 1



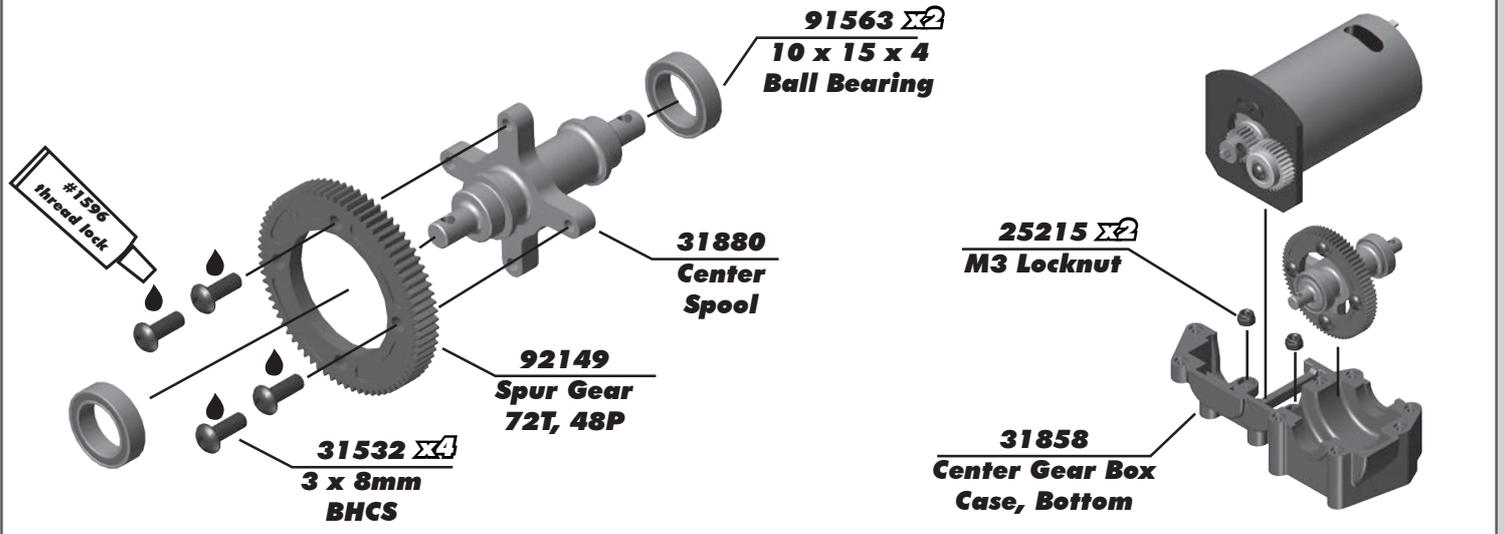
:: Electronics Build - Step 2



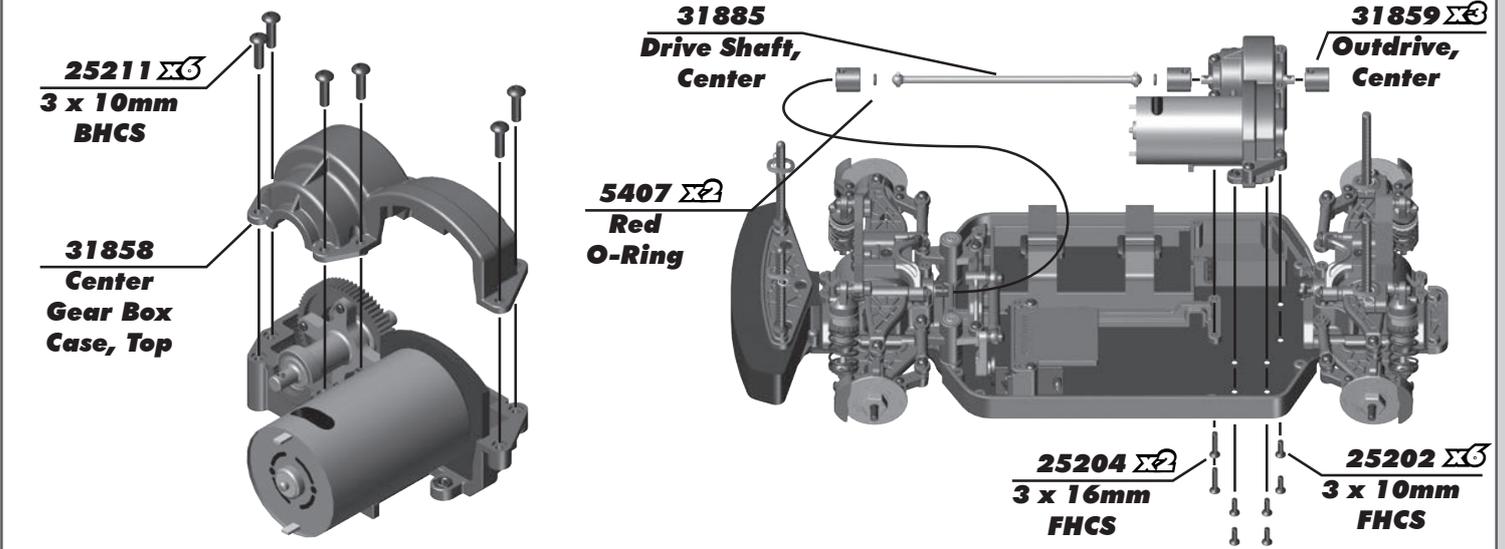
:: Electronics Build - Step 3



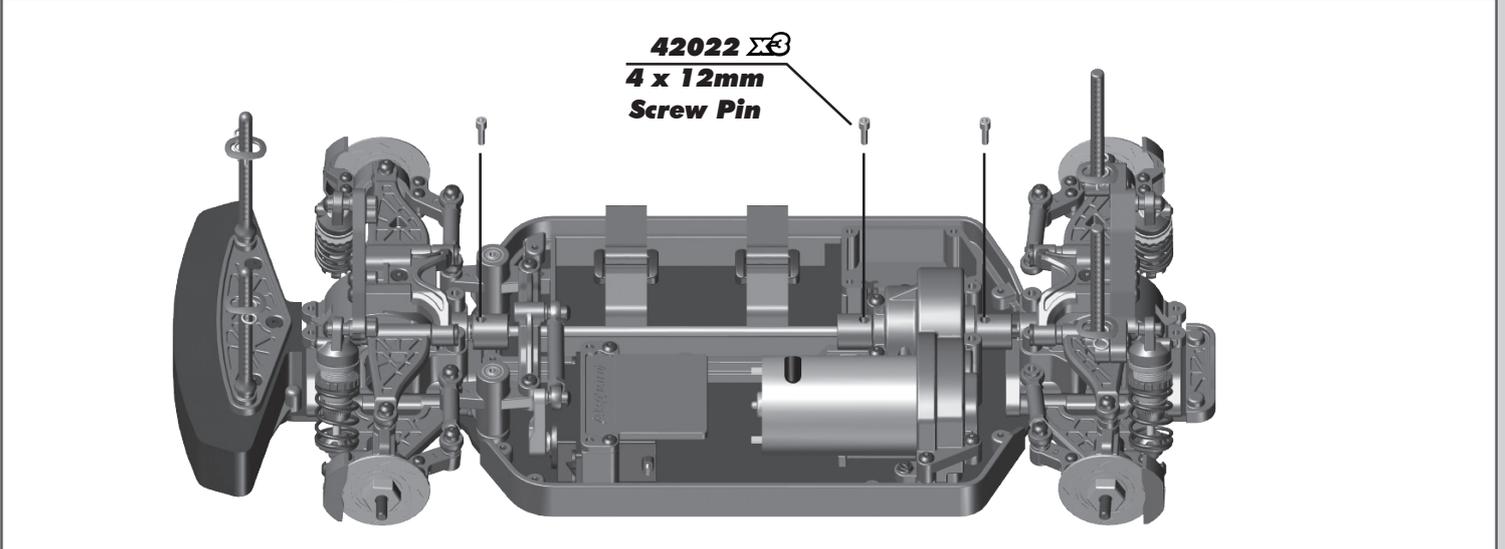
:: Electronics Build - Step 4



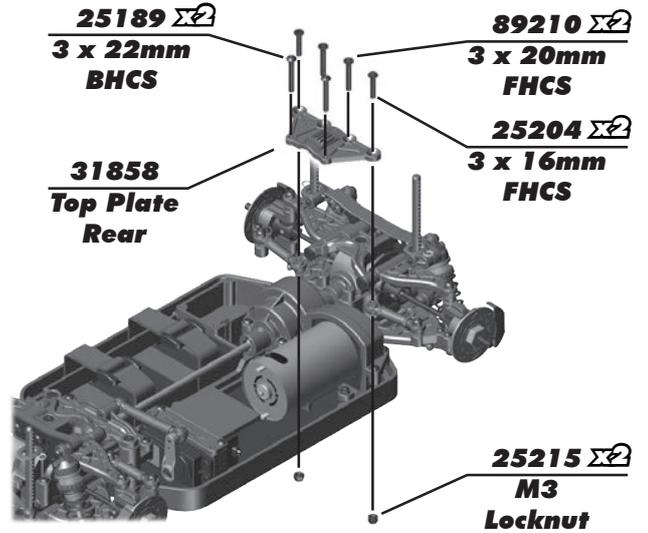
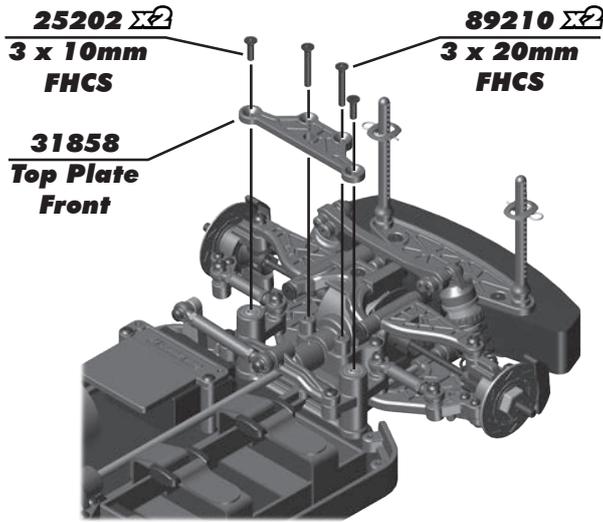
:: Electronics Build - Step 5



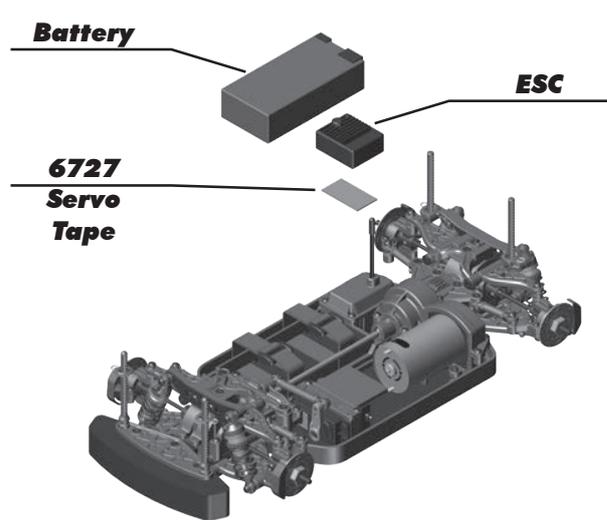
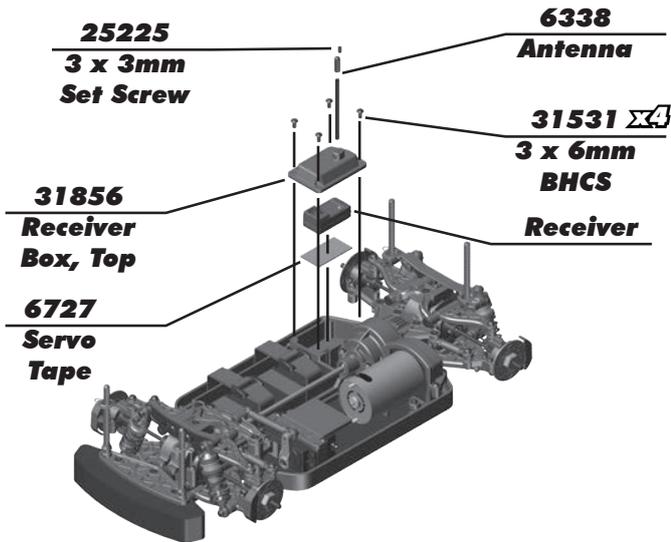
:: Electronics Build - Step 6



:: Electronics Build - Step 7

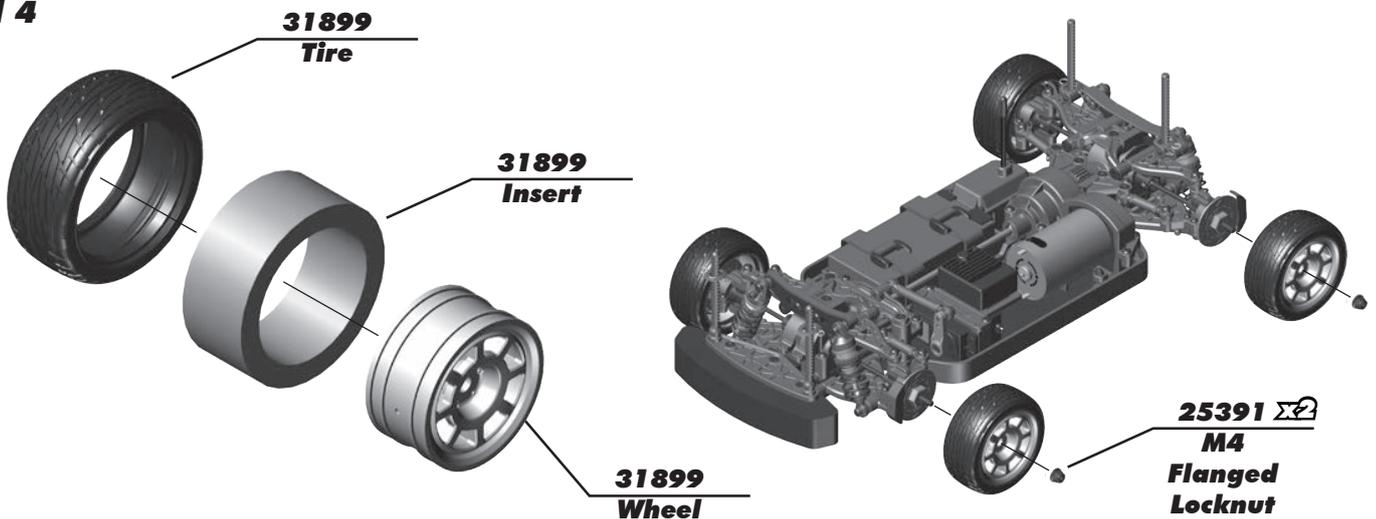


:: Electronics Build - Step 8

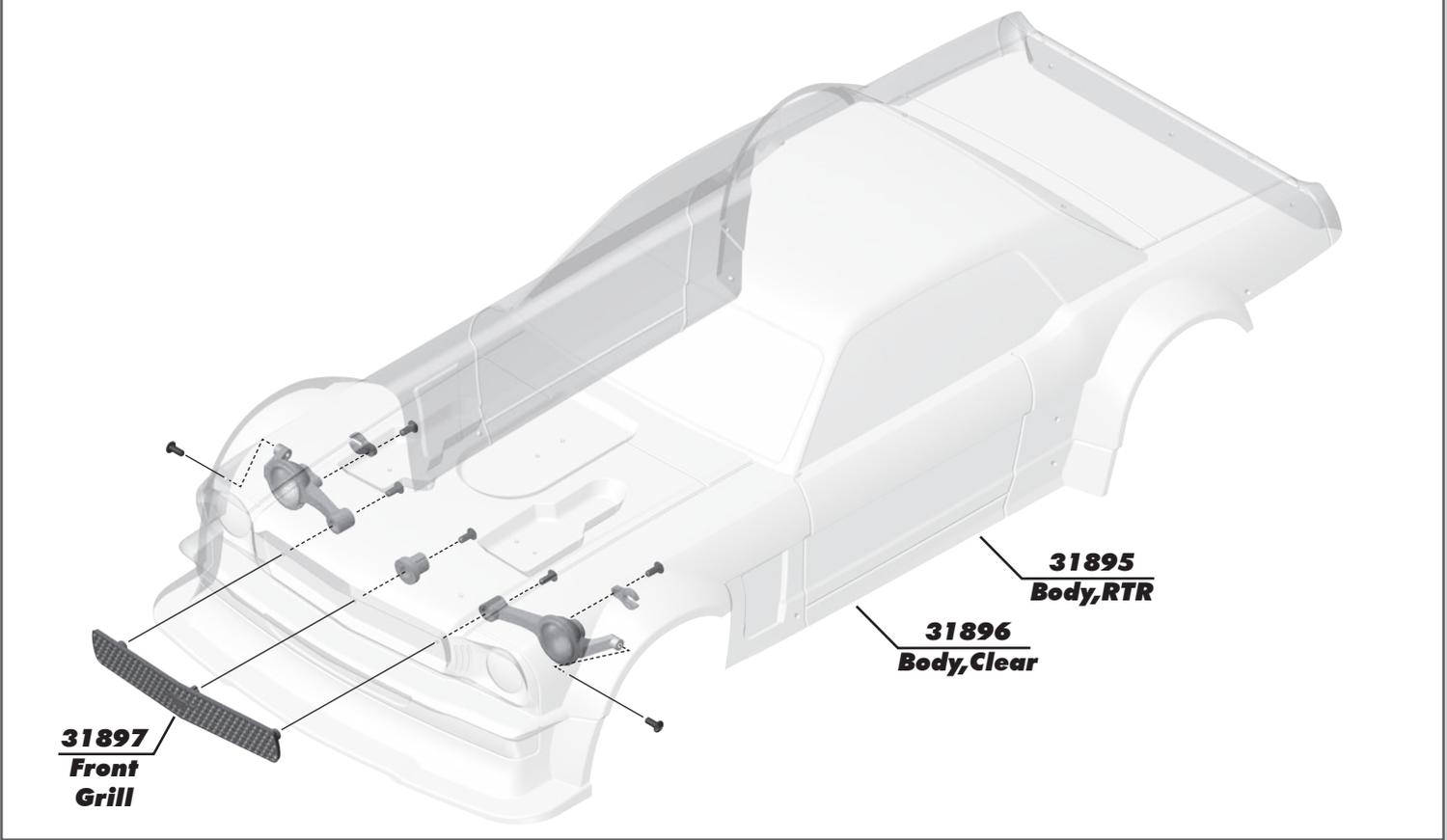


:: Tires and Body Build - Step 1

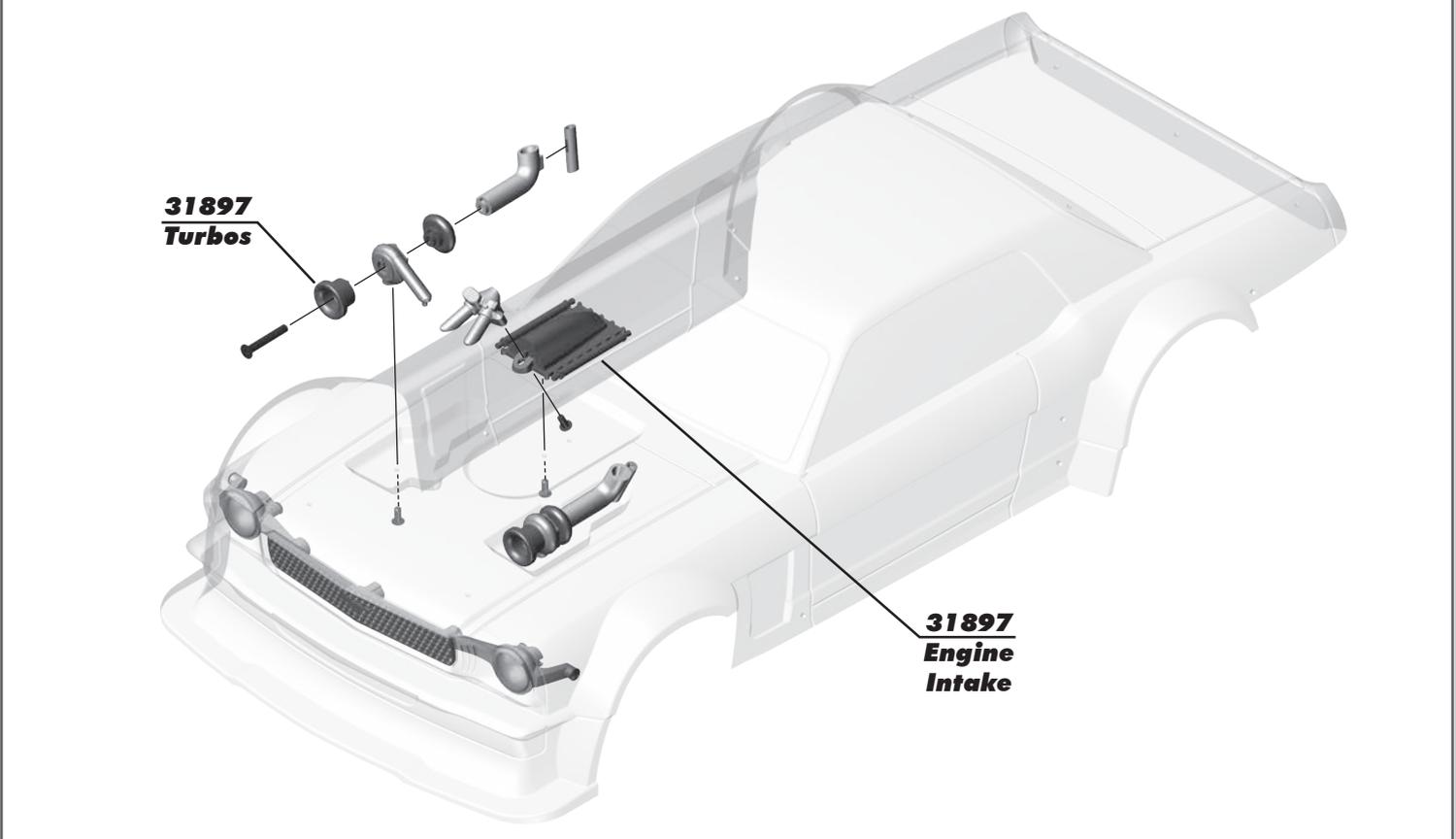
Build 4



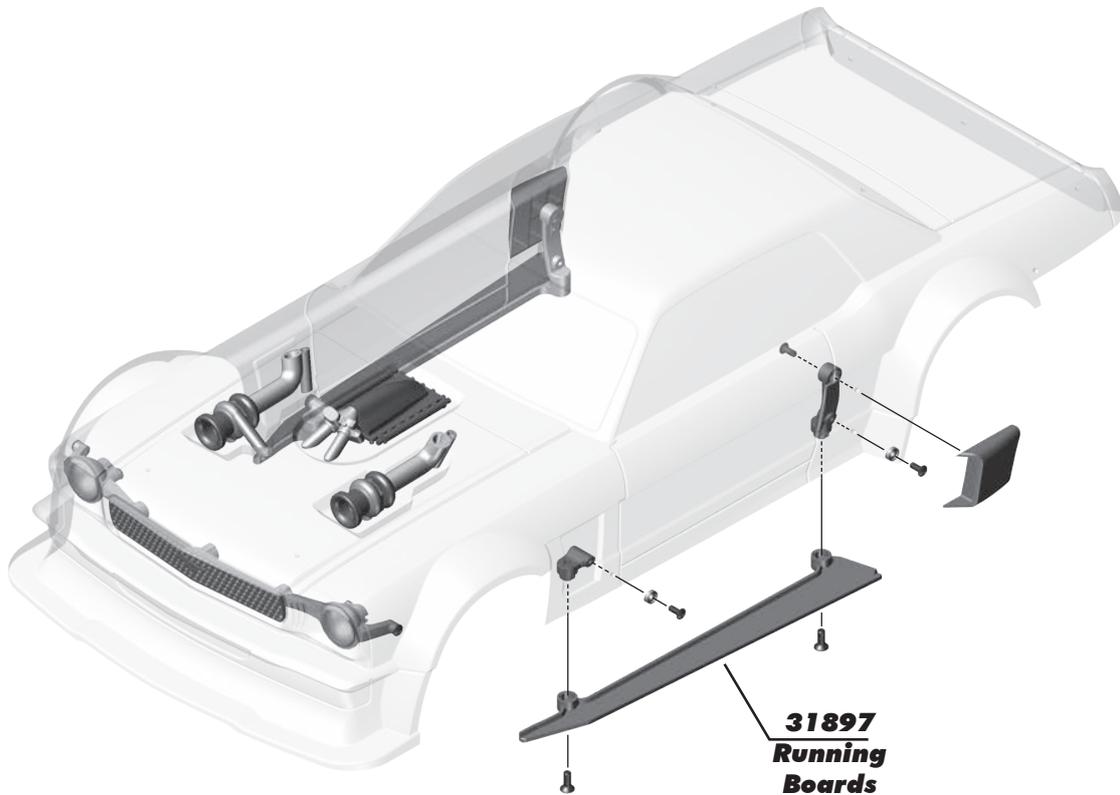
:: Tires and Body Build - Step 2



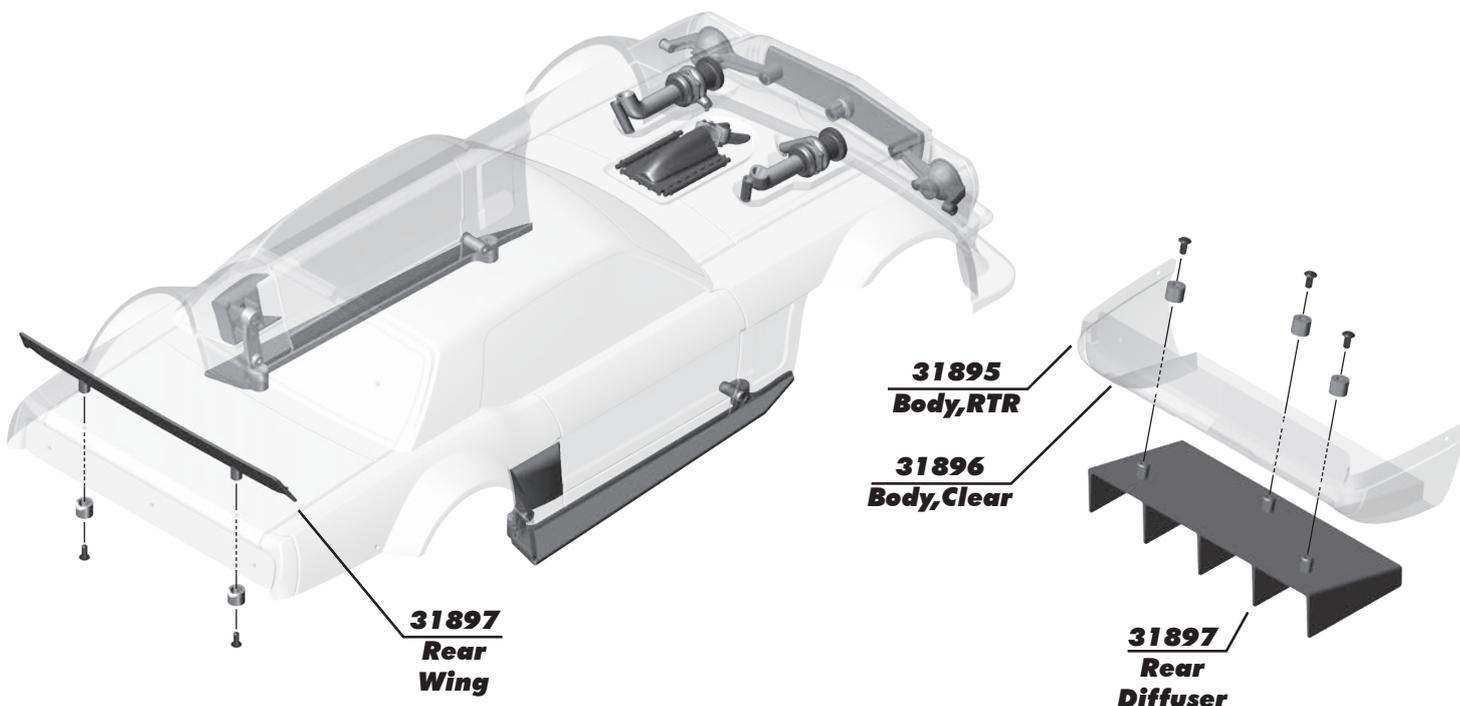
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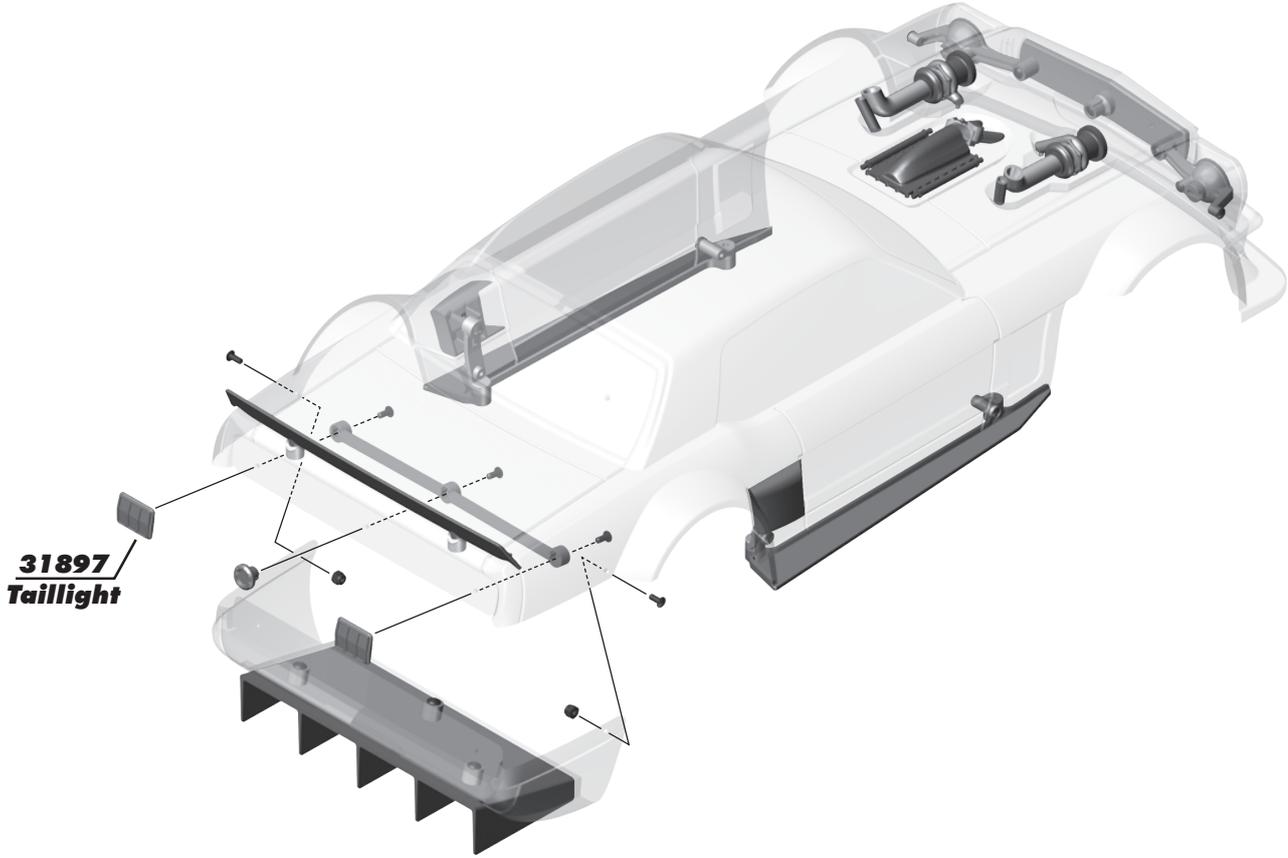
:: Tires and Body Build - Step 4



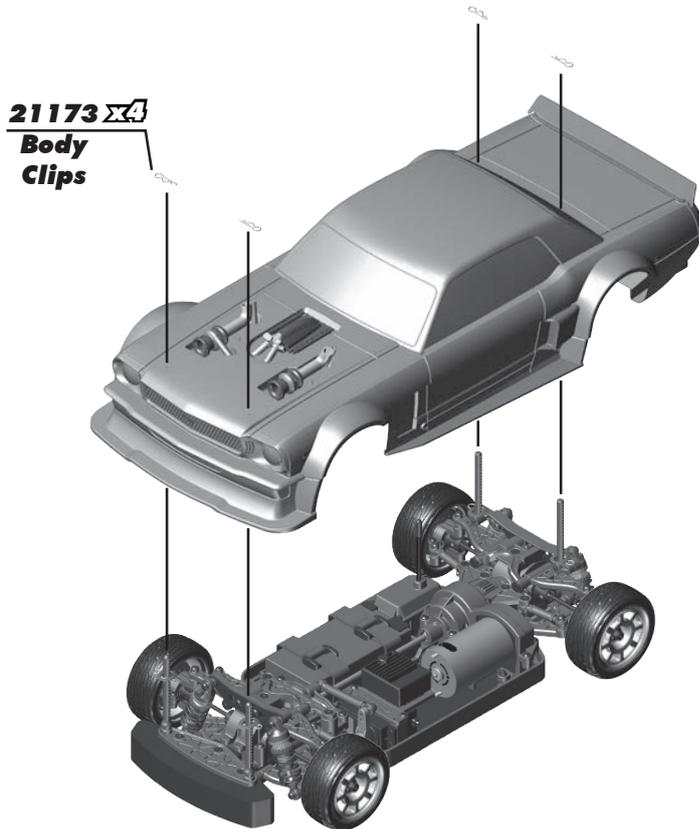
:: Tires and Body Build - Step 5



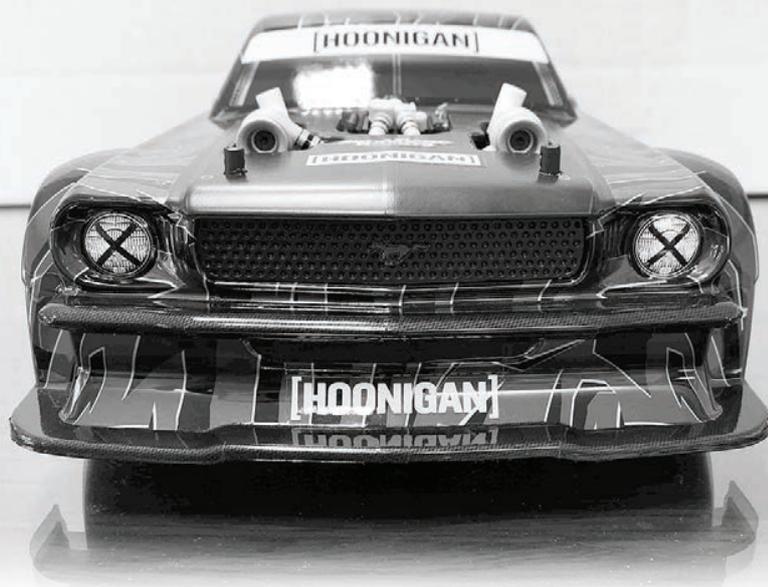
:: Tires and Body Build - Step 6



:: Tires and Body Build - Step 7



[HOONIGAN]





HOONIGAN (HŌON'·Î·GEN) *n.*

A person who operates a motor vehicle in an aggressive and unorthodox manner, consisting of, but not limited to, drifting, burnouts, doughnuts as well as acts of automotive aeronautics.
One who hoons.

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