

APEX

T O U R I N G

#30112 APEX Touring RTR

READY-TO-RUN
BRUSHLESS POWERED 4WD TOURING CAR



1:10 Scale Electric 4WD Touring Car Manual & Catalog

12/12

QUALIFIER
S E R I E S

TEAM ASSOCIATED

:: Introduction

Thank you for purchasing this Team Associated Qualifier Series product. This manual contains instructions and tips for maintaining your new APEX RTR. Please take a moment to read through it and familiarize yourself with these steps as they will help you to understand each component's function and show you some tips for getting the most out of your APEX RTR. We are continually changing and improving our designs; therefore, actual parts may appear slightly different than the illustrations.

For more information, scan the QR code to the right for videos and tutorials on the APEX RTR!

http://www.teamassociated.com/cars_and_trucks/Apex/RTR



:: APEX Platform Features

- Fully assembled, shaft drive 4wd Touring car with gear differentials
- Water RESISTANT XP SC500-BL brushless electronic speed control with Deans® Ultra Plug® (2S-3S LiPo compatible)
- Reedy WolfPack 7-cell NiMH Battery w/Deans® Ultra Plug® Connector
- Powerful Reedy 3300kV 540 brushless motor
- XP 2.4Ghz Radio system with XP metal gear steering servo
- Composite modular chassis accepts NiMH or LiPo type batteries
- 10 spoke Touring car wheels with high grip racing tires
- Factory-finished touring car race body
- Fluid filled adjustable shock absorbers
- All steel CVA drive axles front and rear
- All metric hardware and ball bearings throughout
- Sealed metal gear differentials

:: Additional Items Needed

Your APEX RTR requires the following items to complete your kit:

- Transmitter batteries (x6 AA's) (#302, 303 AA batteries recommended)
- NiMH Battery charger (peak detection charger recommended) (AE #604)
-OR- Wall charger (#29154) • Needle nose pliers • Hobby knife
- Reamer/hole punch • Ride Height Gauge (#1450 recommended)

:: Other Helpful Items

- Silicone Shock Fluid / Differential Fluid (Refer to catalog for complete listings)
- Body Scissors (AE Part # 1737)
- FT Hex Wrenches (AE Part # 1541, 1655)
- FT Nut Drivers (AE Part #1561, 1663-1668)
- FT Turnbuckle Wrench (#1112)
- Green Slime shock lube (AE Part # 1105)
- FT Threadlock (#1596)
- Multi Tool (AE Part #7494)
- Calipers or a Precision Ruler
- Soldering Iron
- Wire cutters

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:: Notes



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



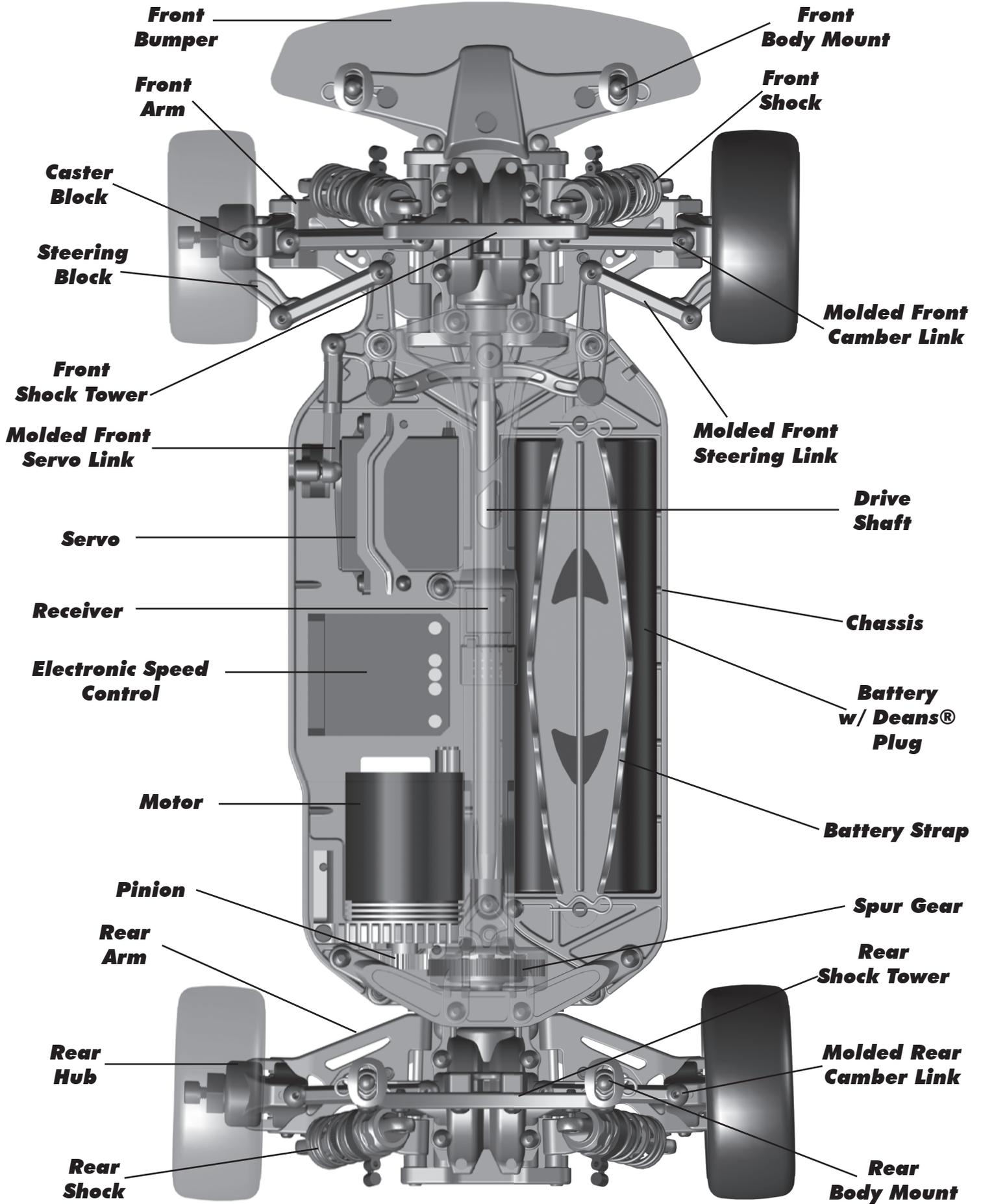
There is a 1:1 hardware foldout page in the back of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.

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:: Blueprint of the APEX



:: Quick Start Guide

Battery Charging Steps and Safety:

NiMH Wall Charger: (Part #29154 - Wall Charger AC 120V 350mAh)

NiMH Quick Charger: (Part #610 - Reedy 447-S AC/DC 4-7 Cell Peak Prediction NiMH/NiCd Charger)

Remove the battery from the vehicle before charging. Be sure to select the correct charging mode for the type of battery you are charging.

NEVER leave the battery unattended while charging!

NiMH: NiMH batteries (nickel-metal hydride) are high current rechargeable batteries. If you use a peak detection charger, make sure it is designed for NiMH batteries!



Wall Charger



Peak Detection Quick Charger

:: Quick Start Guide - (cont.)

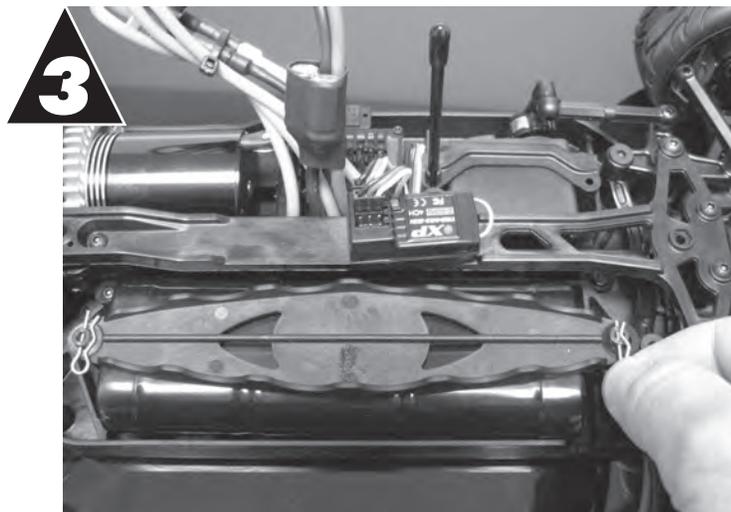
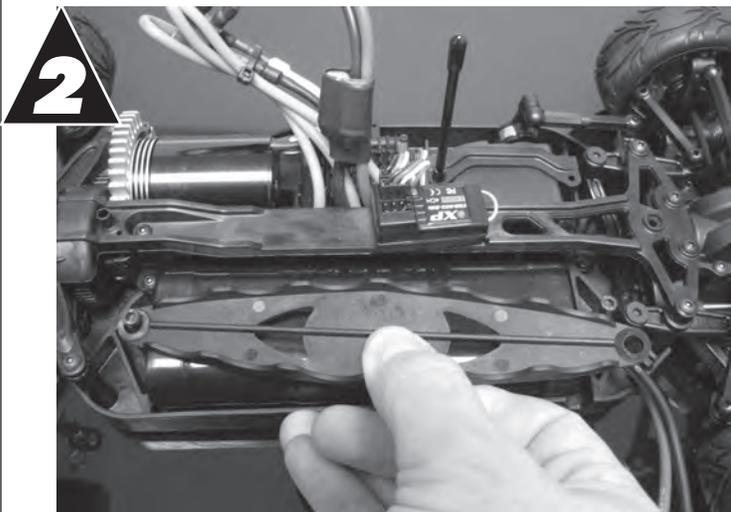
Battery Installation:

1. Install the battery with the battery wires directed towards the front of the vehicle.
2. Insert the battery strap onto the battery post screws.
3. Secure battery strap with body clips.

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.)

Change the speed control to NiMH or LiPo battery modes.

Battery Management System - A choice of either LiPo mode or NiMH mode adjusts the low voltage cutoff point. This is critically important when using LiPo batteries that should not, for performance and safety reasons, be discharged below 3.0V per cell. In LiPo mode, the ESC detects whether you are using 2 or 3 cells and adjusts the cutoff accordingly.

The ESC can be toggled between LiPo mode and NiMH mode by following the steps outlined below.

Step #	Procedure	Signal From ESC	
		Audio	LED
Battery Management System			
1	Power ON Transmitter		
2	Trigger position to maximum brake (hold)		
3	Power On ESC	bi-bi	2 green flash/ green static (LiPo Mode) or red static (NiMH Mode)
4	Throttle position to neutral		
5	Power OFF ESC, then transmitter		
6	Power ON transmitter, then ESC	melody bibi-bibi	3 green flash, 2 red flash, green static or red static



Pull for Throttle ← **Neutral**
Throttle set to Neutral when turning on the radio !

IMPORTANT! When the transmitter and ESC are turned on, the color of the ESC LED at neutral indicates which mode the ESC is in. When the LED is green, the ESC is in LiPo mode. When the LED is red, the ESC is in NiMH mode.

Vehicle Operation - To operate the vehicle, pull back on the throttle trigger to move forward, push forward on the throttle trigger to engage brakes. To engage reverse, push forward on the throttle trigger to maximum brakes. Hold the trigger in this position for at least 0.5 seconds before returning the throttle trigger to neutral. Now push the throttle trigger forward to reverse the vehicle.

:: Quick Start Guide - (cont.)

Battery Notes and Tip:

Plug the battery in as shown. Unplug battery when not in use! There are two types of batteries you can use with this vehicle. NiMH (nickel-metal hydride) and LiPo (lithium polymer).

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.

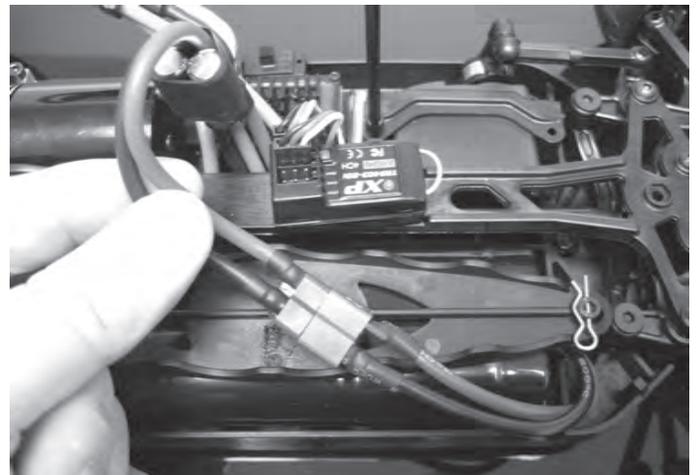
LiPo/LiFe Charger: (Part # 604 - Reedy 526-S AC/DC 2S-6S Cell LiPo/LiFe Balance Charger)

These batteries require special care and handling.

LiPo batteries are recommended for advanced users only!

ALWAYS charge a LiPo battery in LiPo mode.

CAUTION! If using a LiPo battery, you need to change the speed control settings to LiPo mode (see page 17 for instructions).



:: 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 in the direction shown to remove cover.
- 2) Install six (6) 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.

While pressing this part

Battery cell (x6)



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 when turning on the radio !

:: Quick Start Guide - (cont.)

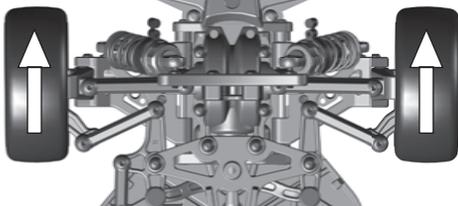


Adjust steering trim so front wheels point straight.



Install body and body clips.

Ready to go!



:: Wiring Diagrams

Motor and Receiver Wiring:

1. If motor runs in reverse when you apply throttle, unplug any two of the motor wires and switch them.
2. Your Receiver has multiple channel ports for plugs.

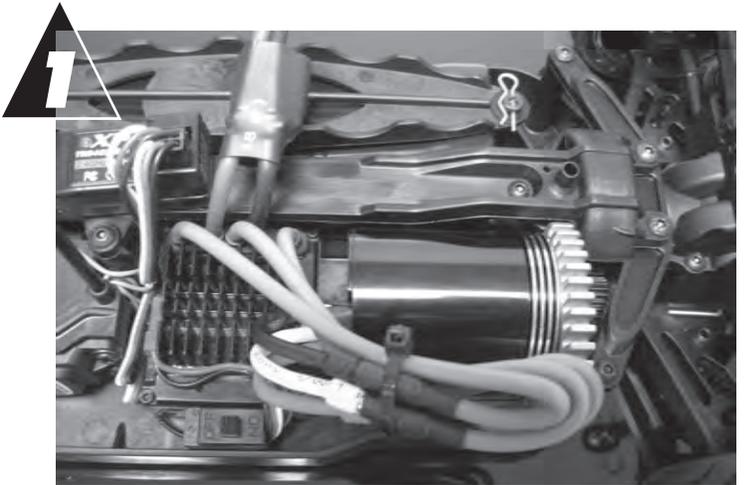
Channel 1 - you should always plug your steering servo into this channel port.

Channel 2 - you should always plug your speed control (ESC) into this channel port.

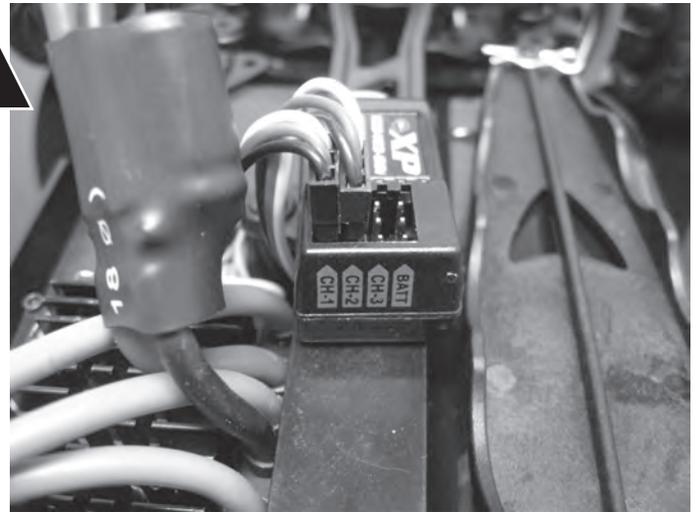
Channel 3 - Used for optional equipment such as fans, lights, ect...

Batt - Used for optional receiver battery pack. Not used in this model.

Negative black wires on steering servo and speed control plugs should face the outside edge of receiver where channel markers are located.



:: Wiring Diagrams - (cont.)



:: Camber / Toe

Front Camber Angle:

A good starting camber setting is -2 degrees (where the top of the tires lean inwards). Positive camber, where the top of the tire is leaning out, is typically not recommended.

Front Toe-In:

Zero degree toe-in (tires pointing straight forward) is a good starting setting. You can increase steering into corners by adding 1-2 degrees of toe-out (front of tires point slightly outward). Front toe - in is not a typical tuning adjustment used.

Rear Camber:

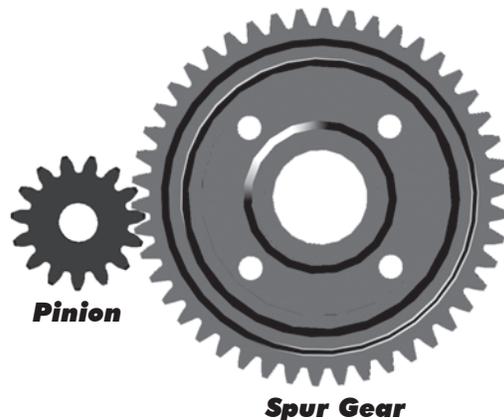
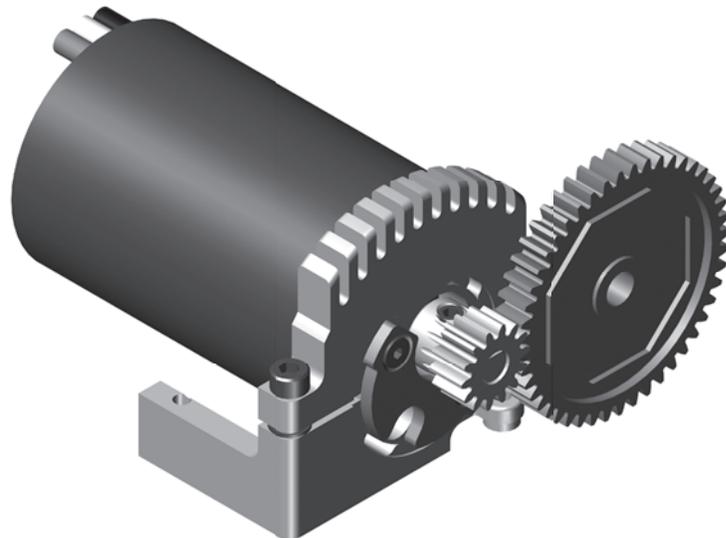
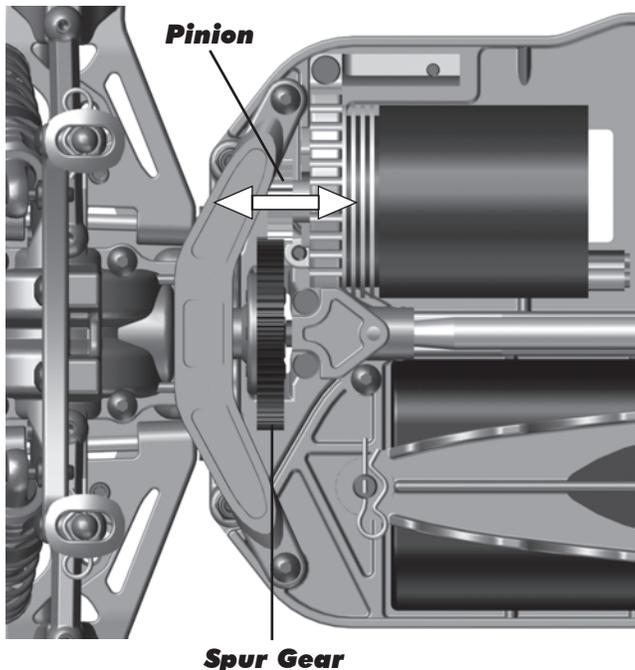
A good starting camber setting is -2 degrees. Use #1719 camber gauge (not included) to set your camber. Adding a small amount of positive camber, where the top of the tire is leaning out, will tend to improve straight-line acceleration on loose tracks.

:: Gear Mesh

Gear Mesh:

To correctly set your gear mesh, follow the steps below:

1. Remove the Chassis Brace. Loosen the set screw on the motor's pinion gear. Slide the pinion on the motor shaft until the gear face of the pinion is entirely aligned with the gear face of the spur gear (see diagram). Tighten the set screw while ensuring it is aligned with the flat face on the motor shaft.



2. Loosen the motor clamp screw until the motor is able to move freely. Rotate the motor as far as it can go towards the spur gear, ensuring that the teeth of the pinion and the spur gear are interlocking. Slide the motor back (approximately 0.5 mm), and tighten the motor clamp screw. Proper gear mesh has been achieved when the teeth are meshing closely, but the gears still have a small amount of clearance between them. If you hold one gear, you should be able to rock the other gear back and forth a small amount. If there is no clearance, your gear mesh is too tight and you should readjust the motor again.

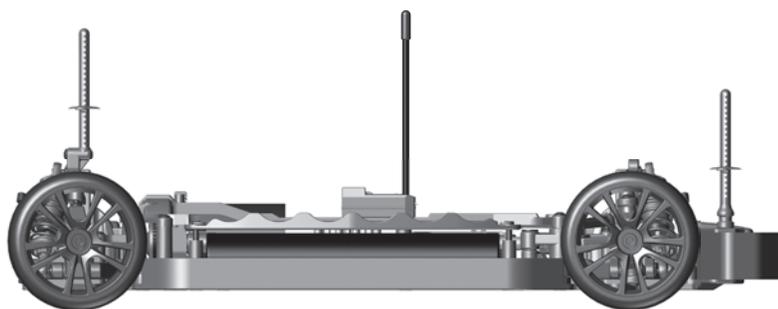
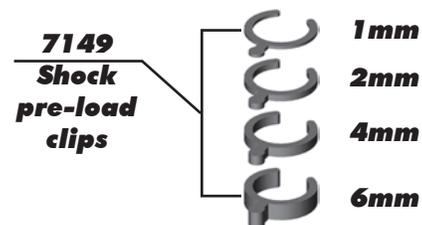
:: Ride Height

Adjusting Ride Height:

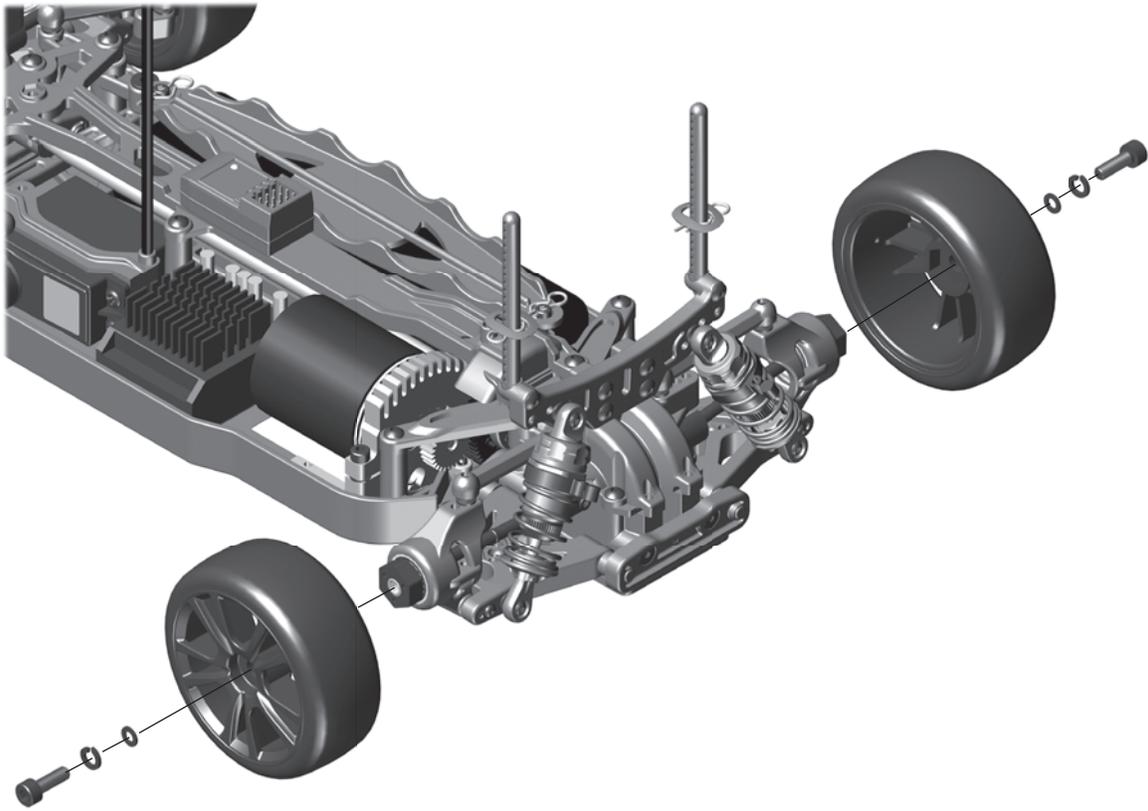
Ride height is adjusted by adding and/or removing shock pre-load clips to the front and rear shocks. Stock setting is approximately 4mm front and rear. Check the ride height with the FT Ride Height Gauge (# 1450). Raise or lower the ride height with the shock clips as necessary and recheck.

Front shock: 4mm

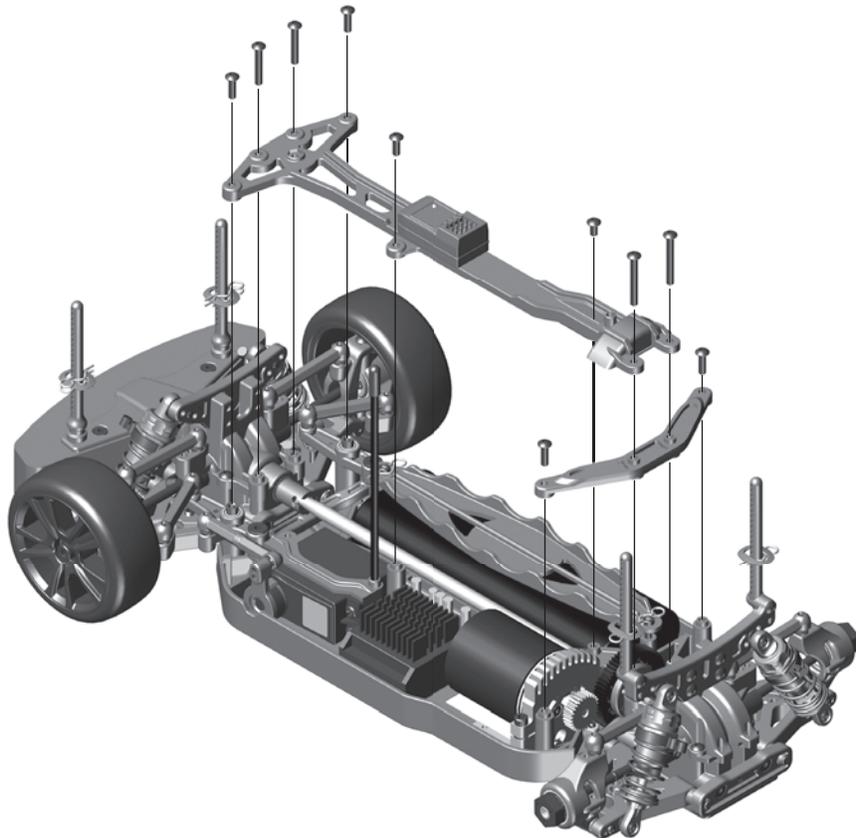
Rear shock: 4mm



:: Spur Gear Access



:: Spur Gear Access - (cont.)

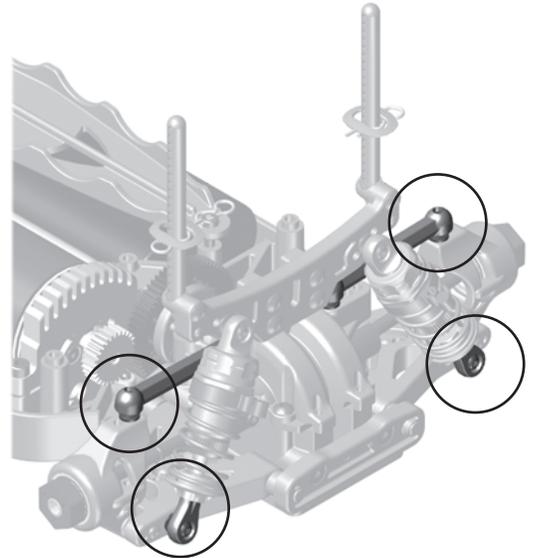


:: Spur Gear Access - (cont.)

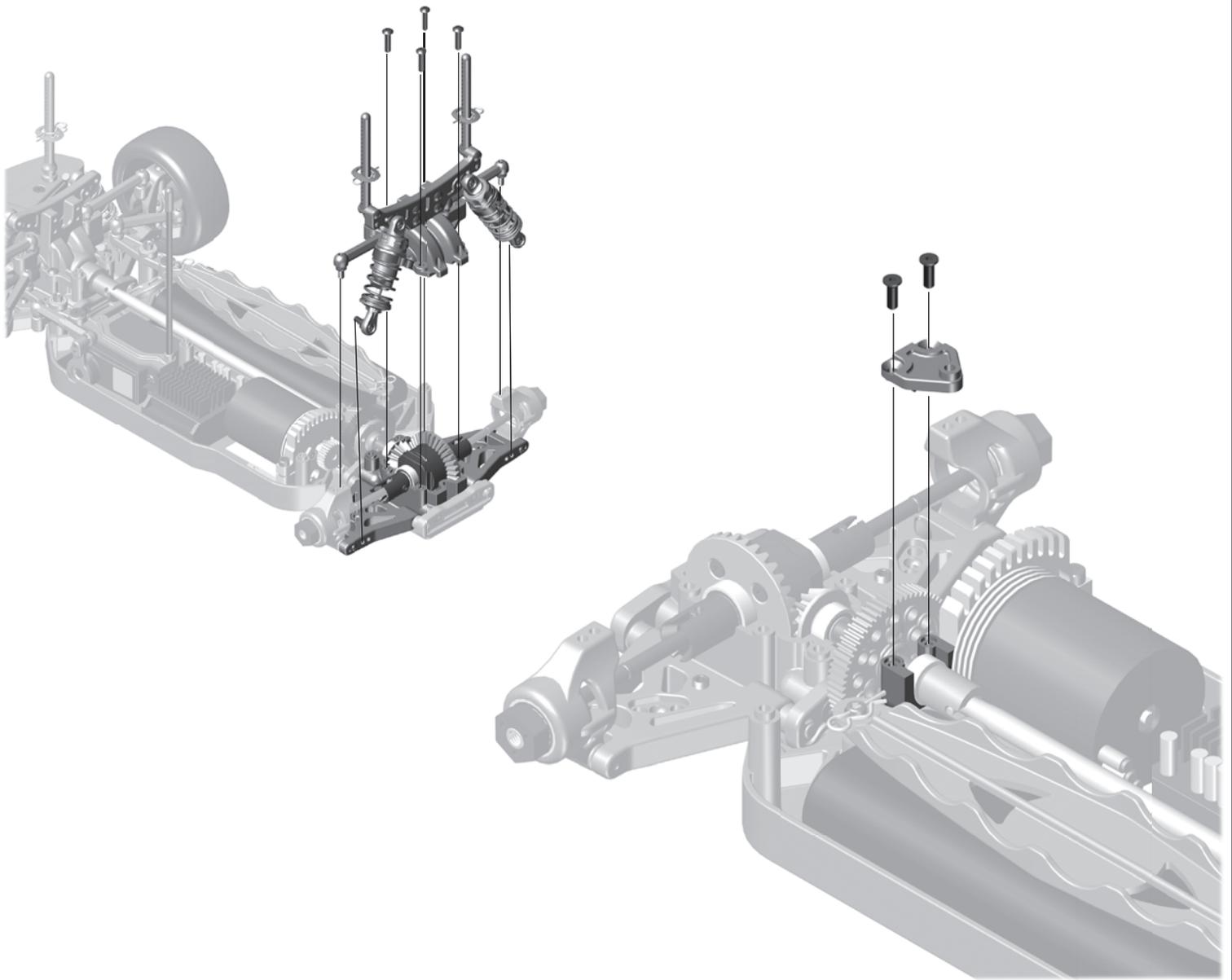
Rear Shock Tower Removal:

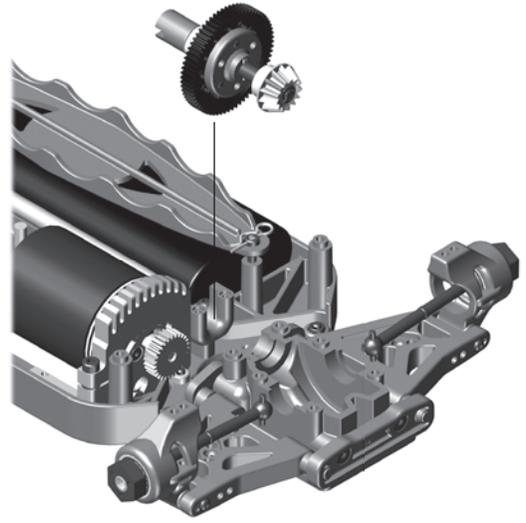
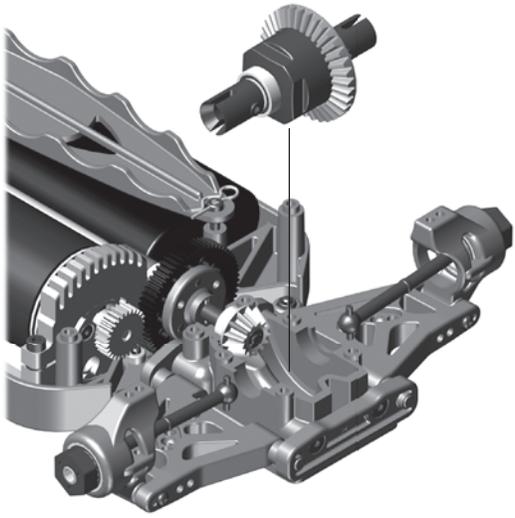
Loosen the ball studs highlighted in order to remove the shock tower with the shocks and camber turnbuckles attached as one complete piece.

Make sure you re-install the CVA bones into the diff outrives when re-installing the rear shock tower!

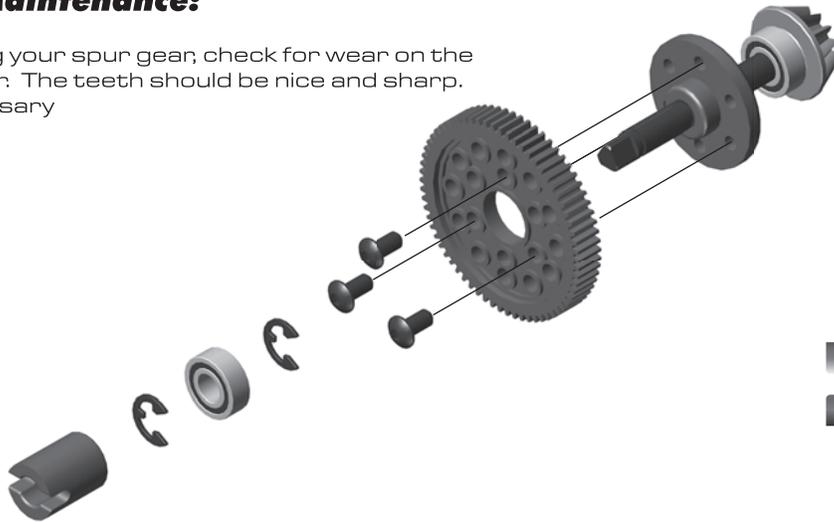


:: Spur Gear Access - (cont.)

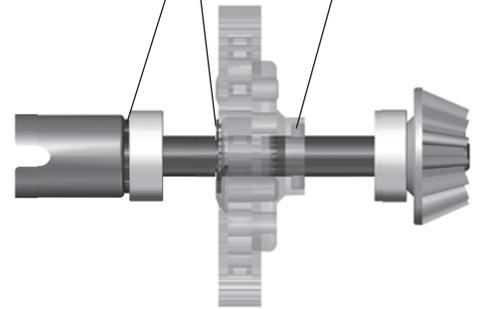
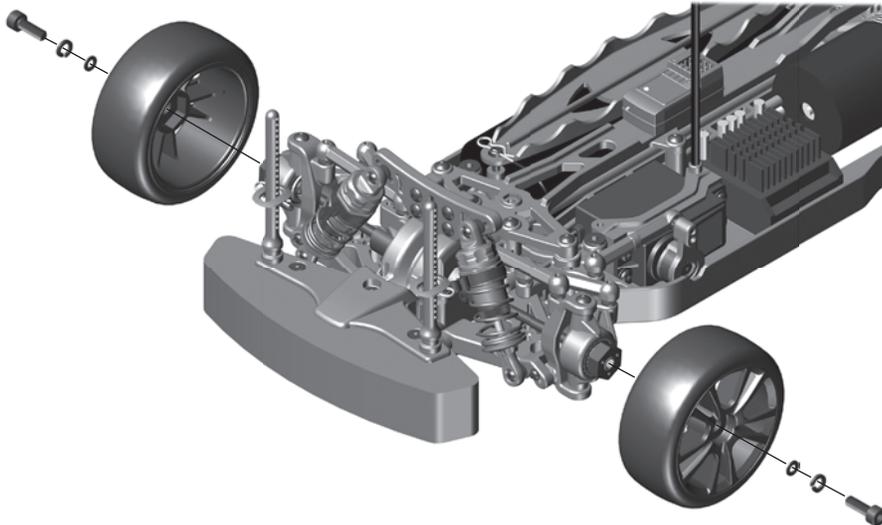


:: Spur Gear Access - (cont.)**:: Spur Gear Access - (cont.)****Spur Gear Maintenance:**

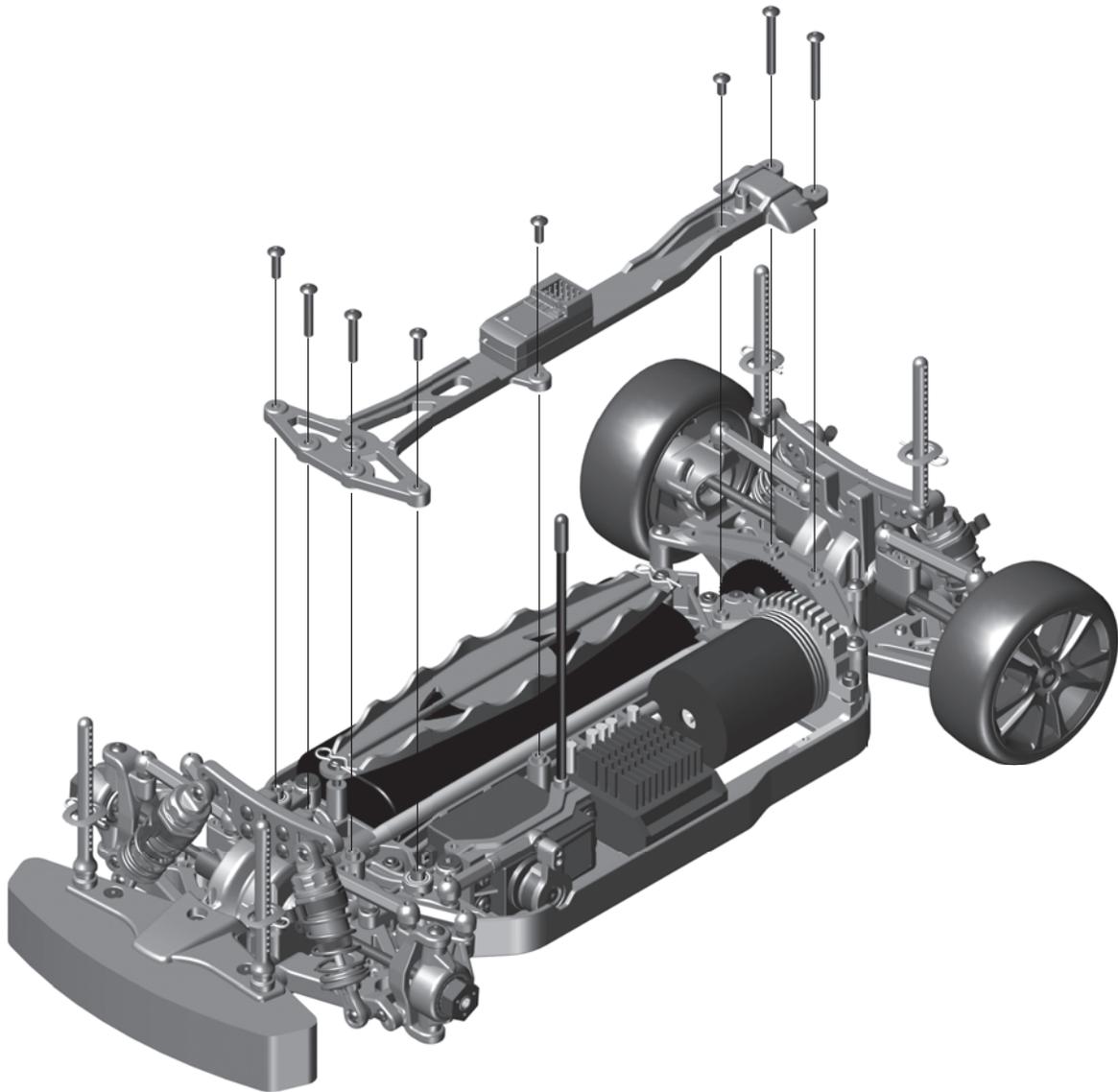
When accessing your spur gear, check for wear on the teeth of the gear. The teeth should be nice and sharp. Replace if necessary.



!
Note the location of the spur gear hub pin and the 4mm E-Clips on the spur gear shaft

**:: Front Diff Access - (cont.)**

:: Front Diff Access - (cont.)

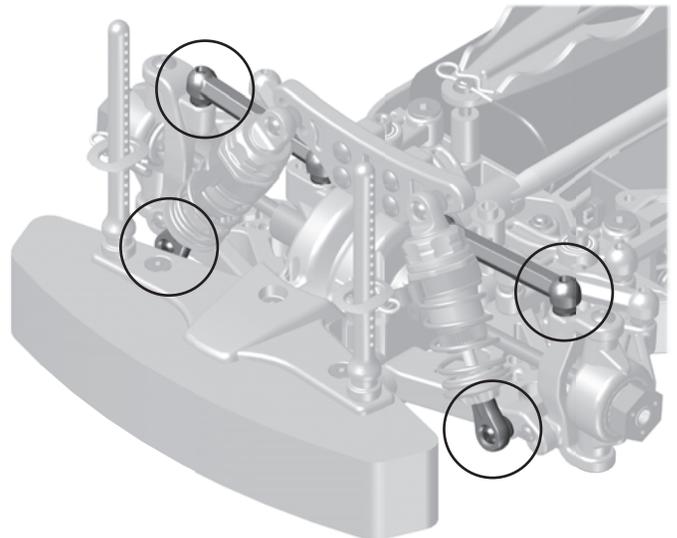


:: Front Diff Access - (cont.)

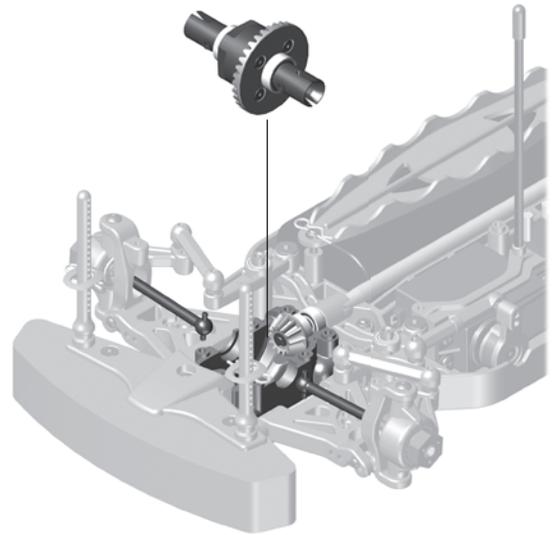
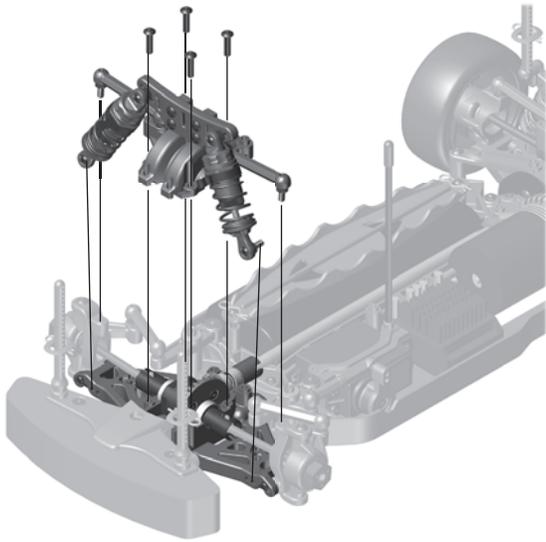
Front Shock Tower Removal:

Loosen the ball studs highlighted in order to remove the shock tower with the shocks and camber turnbuckles attached as one complete piece.

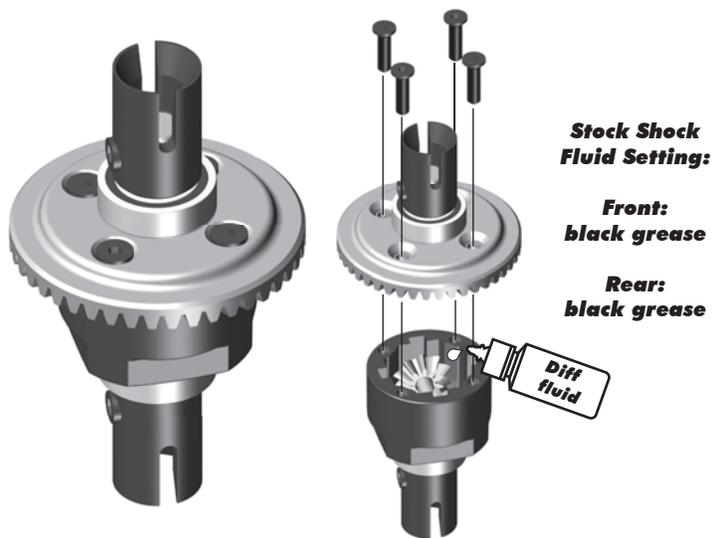
Make sure you re-install the CVA bones into the diff outdrives when re-installing the front shock tower!



:: Front Diff Access - (cont.)



:: Diff Maintenance



Differential Maintenance:

Once you have removed the Diff gear, you can now drain the existing diff fluid from the differential.

Check the diff gasket for wear or damage. Replace if necessary

Fill the diff to the top of the cross pin with your choice of diff fluids.

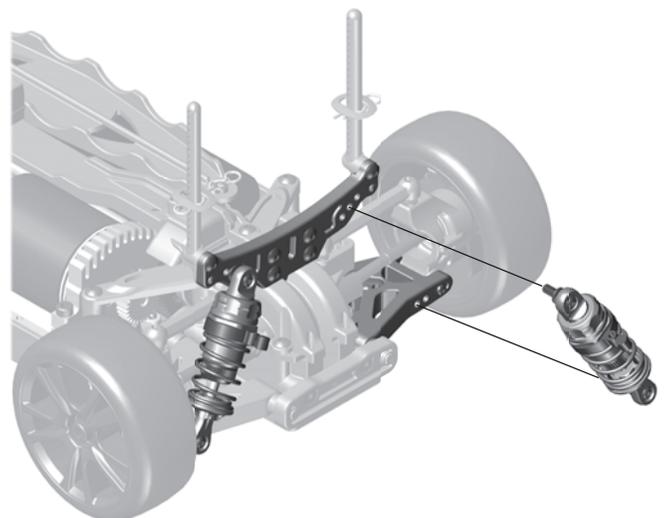
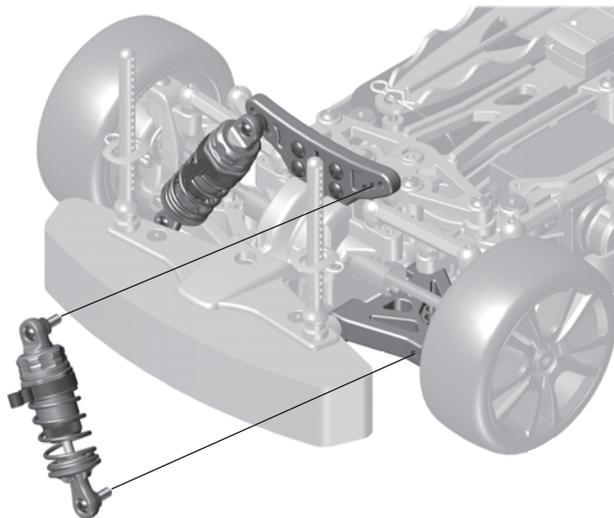
Front Diff:

Thicker oil will get less low speed steering and better acceleration out of turns.

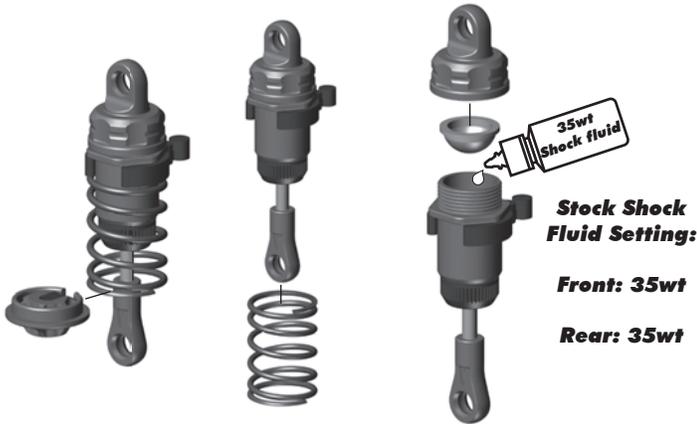
Rear Diff:

Thicker oil will rotate less in the turns and accelerate straight on power. Thinner oil will give more low speed traction.

:: Shock Maintenance

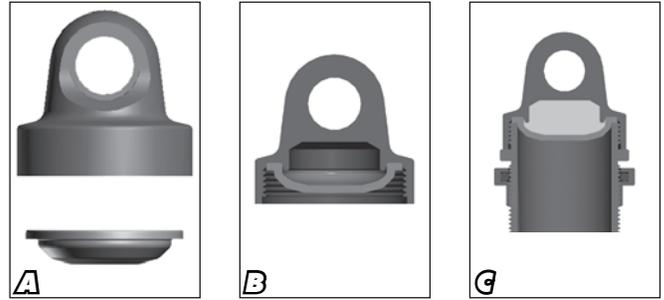


:: Shock Maintenance - (cont.)



Stock Shock Fluid Setting:
Front: 35wt
Rear: 35wt

Bladder Installation



As you install the shock cap with the bladder, it will force out any extra fluid. If you install the cap with the shaft fully extended, you are running FULL REBOUND. This means the shaft will fully rebound when compressed. To run less rebound, unthread the cap 1-2 turns and compress the shaft to the desired position and re-tighten the cap with the shaft compressed. Start with no rebound.

:: Shock Maintenance - (cont.)



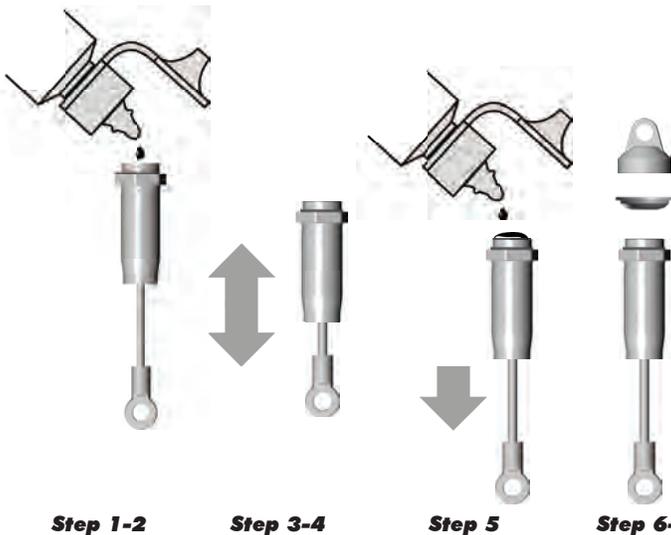
Shock Maintenance:

If you need to only refill your shocks with oil, follow the steps above only then move to the shock bleeding steps.

If your shocks leak from the bottom shock cap, follow all shock maintenance sections.

Replace the inner O-Ring in the bottom cap, then begin the shock oil filling and bleeding process.

:: Shock Maintenance - (cont.)



Shock Bleeding Steps:

1. Pull shock shaft down.
2. Fill shock body 3/4 full with silicone shock fluid.
3. Slowly move the shock shaft up and down to remove air from under the piston.
4. Wait for bubbles to come to surface.
5. Fill shock body to top with silicone shock fluid.
6. Place a drop of oil in the cap and on cap threads.
7. Install cap and tighten completely.
8. Unscrew the cap 3/4 turns and tilt the shock at a slight angle.
9. Slowly compress shaft all the way to bleed excess silicone shock fluid and air. You should see bubbles coming out from under the cap. (use rag around shock to catch excess fluid).
10. 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 3-9.



Check for pressure

! Some residual shock fluid may appear from your first few runs around the shock cap as a result of bleeding.

Step 1-2

Step 3-4

Step 5

Step 6-8

Step 9-10

:: Motor Manual

REEDY

540R BRUSHLESS MOTOR

Introduction

Congratulations on your purchase of Reedy's 540R Brushless Motor. The latest brushless motor technology along with the design and engineering experience that is responsible for 28 World Championship titles has been incorporated into its design.

Due to its sensorless design, the Reedy 540R Brushless Motor operates powerfully and efficiently without complicated sensor harnesses. This motor is perfectly suited for use with ESCs that are designed to operate sensorless brushless motors.

Please read the following before installing and using your new motor.

Features

- Oversized Precision Ball Bearings
- High-Strength Rotor
- Hardened Steel Shaft
- Triple-Insulated Windings
- Sensorless Operation
- 3.5mm Connectors

Precautions and Warnings

- Please read the instructions before installing and operating your motor.
- Avoid over gearing by monitoring motor temperature. Operating temperatures should not exceed 80C (175F).
- Be sure to use the proper size motor mounting screws.
- Do not over-tighten the motor mounting screws.
- Do not use a Schottky diode with this motor.

Installation and Maintenance

- Your motor should be installed using 3mm screws with a length (generally 6mm or less) that does not allow the screw to extend into the motor more than 5mm. Otherwise, the screw can damage the motor's internal components.
- Do not over-tighten the motor mounting screws. Doing so may strip the mounting hole threads.

- Connect the three leads exiting the motor to the three motor leads from your Electronic Speed Control (ESC). If the motor runs backwards when giving it forward throttle, reverse any two motor leads. The motor will now turn in the desired direction.
- To clean your motor, lightly brush dirt away on a regular basis paying particularly close attention to the areas around the ball bearings. DO NOT spray cleaners or solvents into the motor.

Caution

When switching to a higher voltage battery from a lower one (to 11.1V from 7.4V, for example), a change in gear ratio or a lower kV motor might be necessary. Otherwise, the motor or ESC may overheat and sustain permanent damage. Please visit www.reedypower.com for the latest gear ratio suggestions for your particular motor and vehicle.

Safety Precautions

This product is a sophisticated hobby product and not a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or property. This product is not intended to be used by children without direct adult supervision. It is essential to read and follow all instructions and warning found in this manual prior to installation, set up, and use in order for the product to operate properly and to avoid damage or injury.

Specifications

Model	540R 3300kV	540R 3900kV	540R 4900kV	540R 6100kV
Item No.	916	917	918	919
Cells	2-3 LiPo, 6-8 NiMH	2-3 LiPo, 4-8 NiMH	2-3 LiPo, 4-8 NiMH	2-3 LiPo, 4-8 NiMH
RPM/Volt	3300	3900	4900	6100
Dimensions	36x46mm	36x46mm	36x46mm	36x46mm
Shaft Diameter	3.17mm	3.17mm	3.17mm	3.17mm
Max. Efficiency Current	10-40A	10-45A	10-50A	10-55A
Max. Surge Current	45A/60s	50A/60s	55A/60s	60A/60s
Internal Resistance	20mΩ	16mΩ	12mΩ	8mΩ
Weight	190g/6.7oz	190g/6.7oz	190g/6.7oz	190g/6.7oz

Warranty

Your motor is warranted to the original purchaser for 90 days from the date of purchase, verified by the sales receipt, against defects in material and workmanship. Motors that have been mishandled, abused, used incorrectly, used for an application other than intended or damaged by the user are not covered under warranty.

Associated Electrics Inc. is not liable for any loss or damage, whether direct or indirect, incidental or consequential, or from any special situation, arising from the use, misuse, or abuse of this product

:: ESC Manual



Throttle/Brake Calibration

Your new ESC must be calibrated before use. Before calibration, be sure to set your radio's throttle and brake EPAs to 100% and your throttle trim to neutral. Then follow the steps outlined below.

Procedure	Signal From ESC	
	Audio	LED
Power ON transmitter		
Throttle trigger position to maximum throttle (hold)		
Power ON ESC	bibibibibi	red static/6 green flash
Throttle trigger position to neutral	bibi-bibi	red static/4 green flash
Throttle trigger position to maximum brake	bibi-bibi	red static /4 green flash
Throttle trigger position to neutral		red static
Power OFF ESC, Power OFF transmitter		

Once the calibration procedure is complete, turn on your transmitter, then your ESC, and begin operating your vehicle. Note: If you choose to make settings adjustments at this time, you can do so immediately after step #6 of the throttle calibration procedure.

Battery Management System - A choice of either LiPo mode or NiMH mode adjusts the low voltage cutoff point. This is critically important when using LiPo batteries that should not, for performance and safety reasons, be discharged below 3.0V per cell. In LiPo mode, the ESC detects whether you are using 2 or 3 cells and adjusts the cutoff accordingly.

The ESC can be toggled between LiPo and NiMH by following the steps outlined below.

Step #	Procedure	Signal From ESC	
		Audio	LED
Battery Management System			
1	Power ON Transmitter		
2	Trigger position to maximum brake (hold)		
3	Power On ESC	bi-bi	2 green lash/green static (LiPo Mode) or red static (NiMH Mode)
4	Throttle position to neutral		
5	Power OFF ESC, then transmitter		
6	Power ON transmitter, then ESC	melody bibi-bibi	3 green flash, 2 red flash, green static or red static

IMPORTANT! When the transmitter and ESC are turned on, the color of the ESC LED at neutral indicates which mode the ESC is in. When the LED is green, the ESC is in LiPo mode. When the LED is red, the ESC is in NiMH mode.

Introduction

Congratulations on your XP Brushless Electronic Speed Control (ESC) purchase. The latest electronics technology along with the design and engineering experience that is responsible for multiple World Championship titles has been incorporated into its design.

Your XP Brushless ESC is water-resistant for maximum durability. Its light and compact design allows for easy installation in most 1/10 vehicles. Simple calibration and a wide variety of tuning options make this ESC perfect for both casual enthusiast and racers. When paired with a Reedy Brushless Motors, you create a potent combination of power and efficiency that brings performance to a new level. More power and less maintenance elevate the fun factor by increasing top speeds and reducing down time.

Please read the following before installing and operating your new ESC.

Features

- Adjustable LiPo Low-Voltage Cutoff
- LiPo Cell Count Auto Detect
- Reversible With Reverse Lockout
- Fully Proportional Brakes
- Adjustable Drag Brakes
- Adjustable Throttle Profile
- Hard Case with Aluminum Heat Sink
- Water Resistant
- Heavy Duty Silicone Wires
- Deans® Ultra Plug® Connector
- 3.5mm Motor Connectors
- Pre-Wired For Optional Cooling Fan

Specifications

	#29138
Description	XP SC500-BL
Cells	2-3 LiPo, 6-8 NiMH
On Resistance	2.5 mΩ
Brakes	Proportional
Motor Limit	2 LiPo, 3900kV; 3 LiPo, 3300kV
Reversible	Yes, w/Brakes Only Option
Low Voltage Cutoff	Adjustable, w/Cell Auto-Detect
Dimensions	46mm x 42mm x 26mm
Weight	100g (3.5oz)
Power Wires	14-Gauge Silicone
Connector Type	Battery/Deans®, Motor/3.5mm sockets

Installation

- Mount your ESC securely using double-sided tape.
- Install your ESC in a position that allows easy access to all connectors.
- Plug the ESC's receiver wire into the receiver (refer to radio manufacturer's manual).
- To prevent radio interference, arrange ESC wiring so that it is not in close proximity to the receiver antenna wire.
- Connect the three motor leads exiting the ESC to the three leads exiting your motor. If the motor runs backwards when giving it forward throttle, reverse any two motor leads. The motor will now run the desired direction.
- Always power ON your transmitter before the ESC and power OFF the ESC before the transmitter.

Safety Precautions

This product is a sophisticated hobby product and not a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or property. This product is not intended to be used by children without direct adult supervision. It is essential to read and follow all instructions and warnings found in this manual prior to installation, set up, and use, in order for the product to operate properly and to avoid damage or injury.

Programmable Settings

Your ESC comes with pre-programmed default settings. But you can also change the settings based on the type of vehicle and battery used as well as personal performance preferences based on the track you are driving on and your driving style.

Drag Brake - Drag brake is the amount of braking achieved when the throttle is returned to neutral. A setting of 0% means the vehicle will free wheel to a stop while higher settings will stop the car faster. Please note that regardless of the drag brake setting, you will still be able to use the brake trigger to manually slow the car.

Throttle Profile - This setting adjusts the power delivery of your ESC/motor combination. The Very Soft setting can be used on loose or bumpy track to reduce wheel spin while the Maximum setting works well when high traction is available. Four settings provide options for any track condition.

Run Mode - This gives the option of using reverse or eliminating it completely (for competition). With reverse activated, you will still have fully proportional braking. To make settings adjustments, you must first follow the calibration procedure. You will encounter a 5-second delay before entering step #1 of the settings adjustment mode. All changes will be made using your transmitter's throttle trigger. Note: Once you enter the settings adjustment mode, the ESC will scroll through all options. If you fail to choose a setting, the ESC will keep the previously saved setting.

For example, if you want to change the throttle profile from Soft to Standard, enter the settings mode. You will encounter the Drag Brake mode first at which time you can let the ESC scroll through the choices (the previously saved setting will be kept) until you reach the Throttle Profile choices. You must make the selection by pulling the throttle trigger to maximum after the ESC scrolls to the desired setting (in this case Standard) indicated by the appropriate audible tones. Once this setting (or any setting for that matter) is chosen, you can skip to Step #4 if no other changes are desired.

Step #	Procedure	Signal From ESC	
		Audio	LED
Drag Brakes			
1	0%	1-2	red static/green flashes
	2.5% (default)	1-1-1	
	5%	1-1-1-1	
	10%	1-1-1-1-1	
	Throttle trigger position to maximum to select value	bibi-bibi	
Throttle position to neutral			
Throttle Profile			
2	Very Soft	1-1-1	red static/green flashes
	Soft (default)	1-1-1-1	
	Standard	1-1-1-1-1	
	Maximum	1-1-1-1-1-1	
	Throttle trigger position to maximum to select value	bibi-bibi	
Throttle position to neutral			
Run Mode			
3	Reverse Off (Forward Only)	1-1-1-1	red static/green flashes
	2-stage Reverse (default)	1-1-1-1-1	
	Throttle trigger position to maximum to select value	bibi-bibi	
Throttle position to neutral			
4	Power OFF ESC and transmitter		
5	Power ON transmitter and ESC	melody	3 green flash, 2 red flash/green static or red static
		bibi-bibi	

Vehicle Operation

To operate the vehicle, pull back on the throttle trigger to move forward and push forward on the throttle trigger to engage brakes. To engage reverse, push forward on the throttle trigger to maximum brakes. Hold the trigger in this position for at least .5 seconds before returning the throttle trigger to neutral. Now push the throttle trigger forward to reverse the vehicle.

Warranty

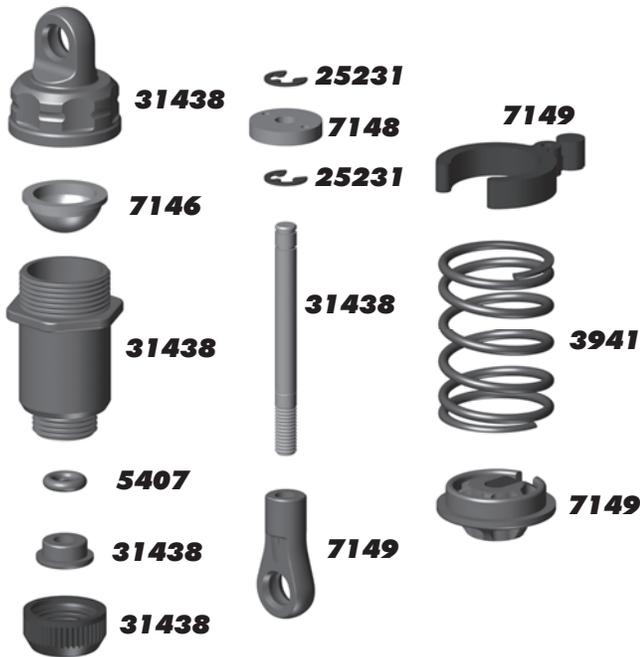
Your XP Electronic Speed Control is warranted to the original purchaser for 30 days from the date of purchase, verified by the sales receipt, against defects in material and workmanship. Product that has been mishandled, abused, used incorrectly, used for an application other than intended, or damaged by the user are not covered under warranty. Associated Electrics Inc. is not liable for any loss or damage, whether direct or indirect, incidental or consequential, or from any special situation, arising from the use, misuse, or abuse of this product.



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:: Shocks

3941	TC Green Spring 12.0 LB - Kit	Pr.
3942	TC Silver Spring 14.5 LB	Pr.
3943	TC Blue Spring 17.0 LB	Pr.
3945	TC Red Spring 22.0 LB	Pr.
3946	TC Copper Spring 25.0 LB	Pr.
3952	TC Purple Spring 30.0 LB	Pr.
3953	TC Yellow Spring 35.0 LB	Pr.
3954	TC White Spring 40.0 LB	Pr.
3988	TC Spring Set, Complete	1
5407	Red Silicone O-Ring	8
7146	Shock Bladders	4
7148	Pistons, 1.2, 1.3, 1.4 w/E-Clips	4ea
7149	Shock Clips w/Spring Retainer (4), Spring Cup (4), & Rod Ends (4)	4ea
25231	E-Clip, 2.5mm	20
31438	APEX Shock Set	1



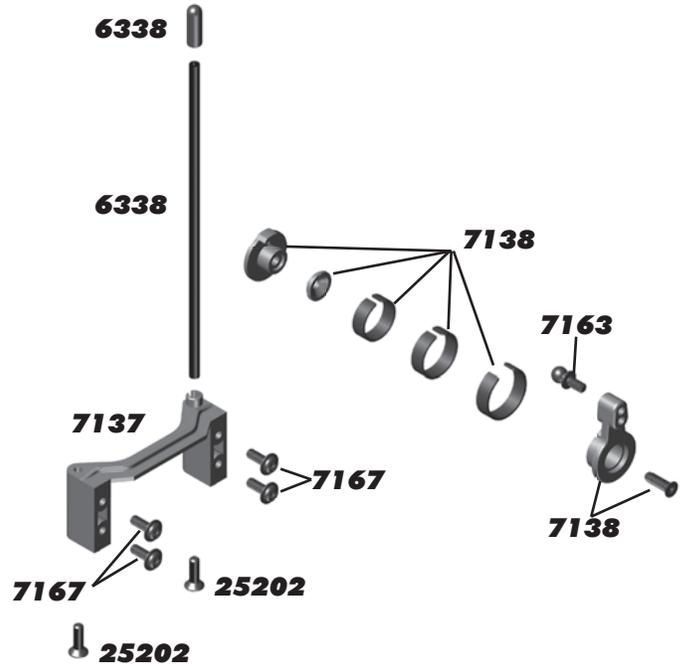
:: Shock Fluid

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.



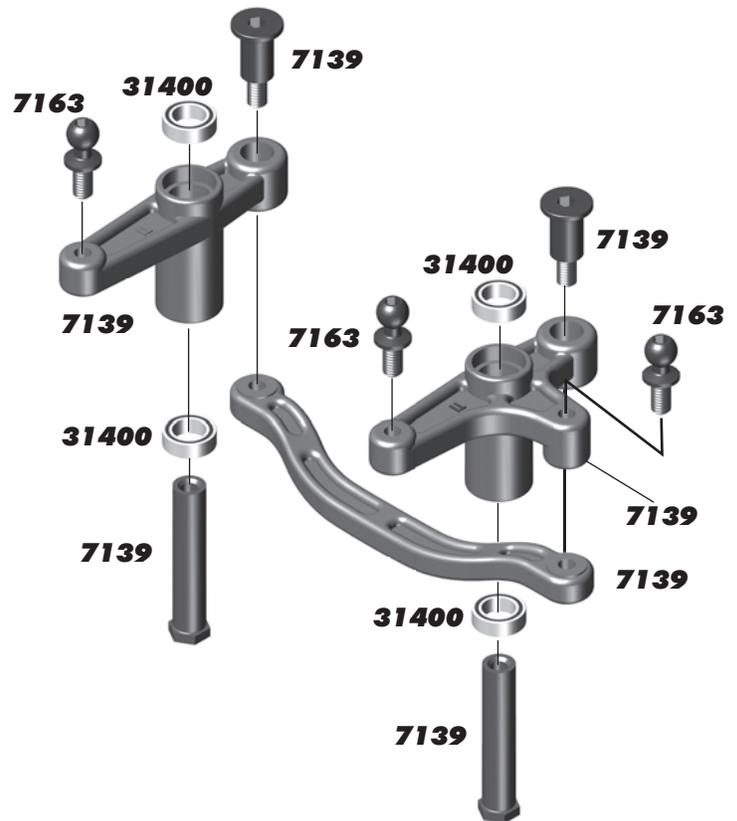
:: Servo Saver/Mount

6338	Antenna Tube w/Cap	1
7137	Servo Mount	1
7138	Servo Saver	1
7163	Ball Stud, (3 short/7 long) Set	1
7167	Tap Screw BHPS	10
25202	M3x10mm FHCS	20



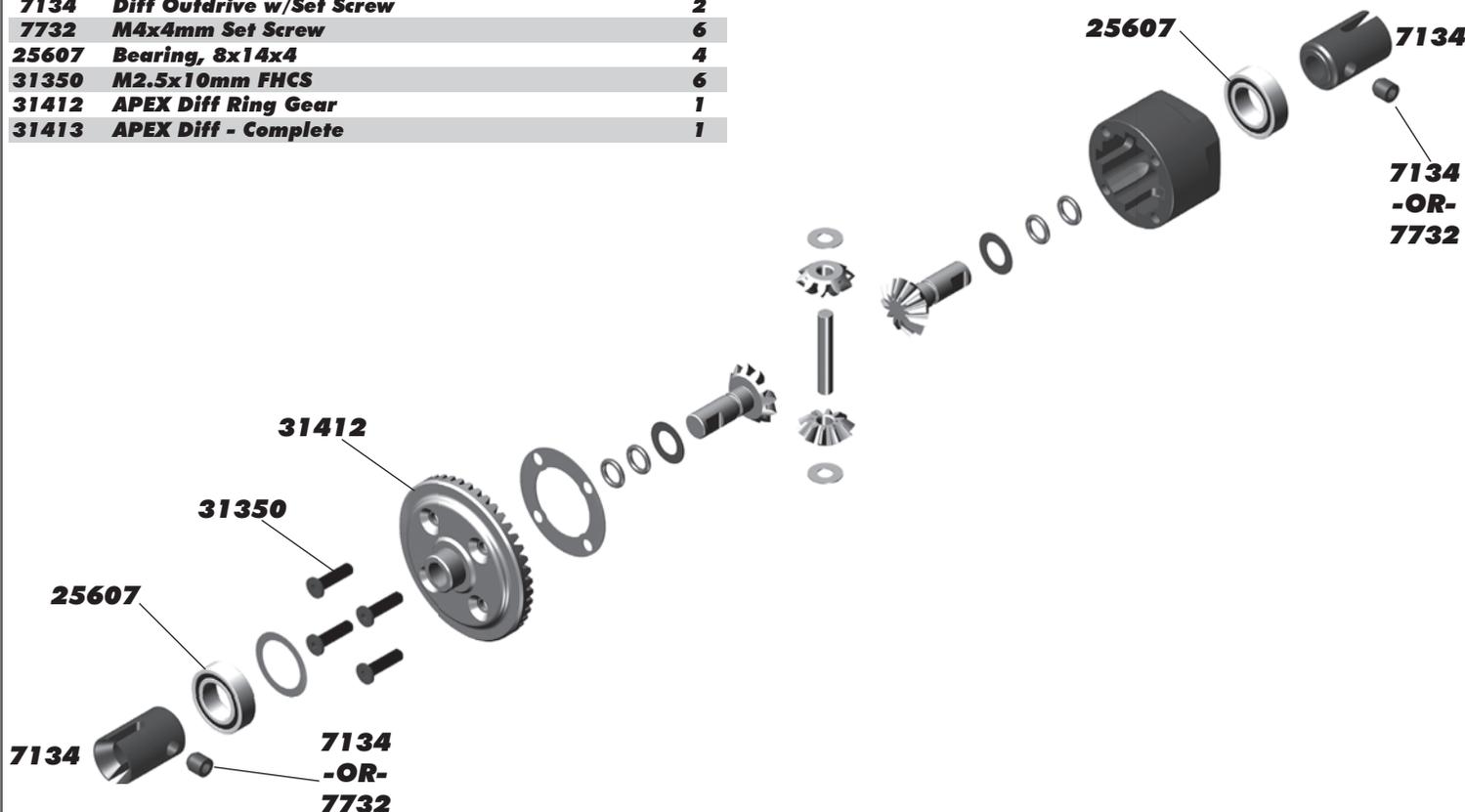
:: Steering

7139	Bellcrank Assembly, Set	1
7163	Ball Stud, (3 short/7 long) Set	1
31400	Bearing, 5x8mm	2



:: Front and Rear Gear Differential

7134	Diff Outdrive w/Set Screw	2
7732	M4x4mm Set Screw	6
25607	Bearing, 8x14x4	4
31350	M2.5x10mm FHCS	6
31412	APEX Diff Ring Gear	1
31413	APEX Diff - Complete	1



:: Lubes & Adhesives / Decals / Misc.

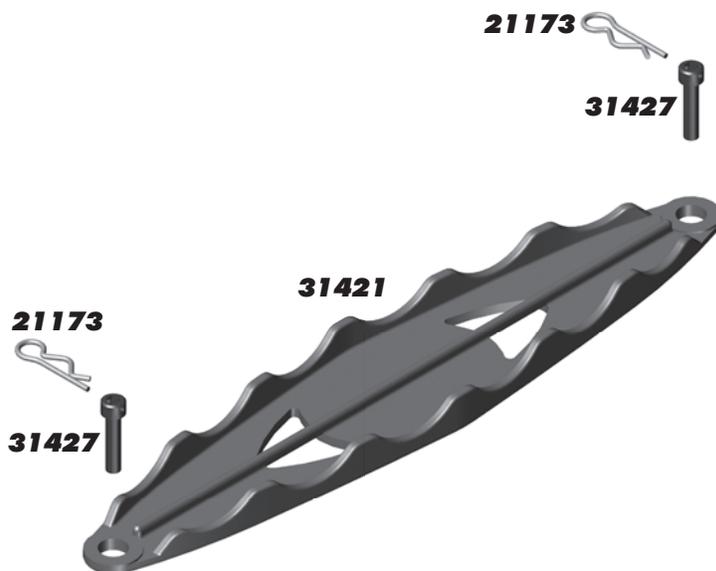
1105	FT Green Slime Shock Lube	1
1596	FT Locking Adhesive	1
1597	FT Tire Adhesive, Medium	1
5450	Silicone Diff Fluid 1000cst	1
5451	Silicone Diff Fluid 2000cst	1
5452	Silicone Diff Fluid 3000cst	1
5453	Silicone Diff Fluid 5000cst	1
5454	Silicone Diff Fluid 7000cst	1
5455	Silicone Diff Fluid 10000cst	1
5456	Silicone Diff Fluid 20000cst	1
5457	Silicone Diff Fluid 30000cst	1
5458	Silicone Diff Fluid 60000cst	1
5459	Silicone Diff Fluid 100000cst	1
6588	Black Grease - 4cc	1
6591	S.Diff Lube - 4cc	1
6636	Silicone Grease - 4cc	1
6727	Servo Tape	2
716	Reedy 2009 Sticker Set	1
717	Reedy Powered Logo Decal	1
3816	American Bumper Sticker	1
3820	AE Logo Decal Sheet	1
3834	AE Blue Embossed Logo Sticker	2



1596

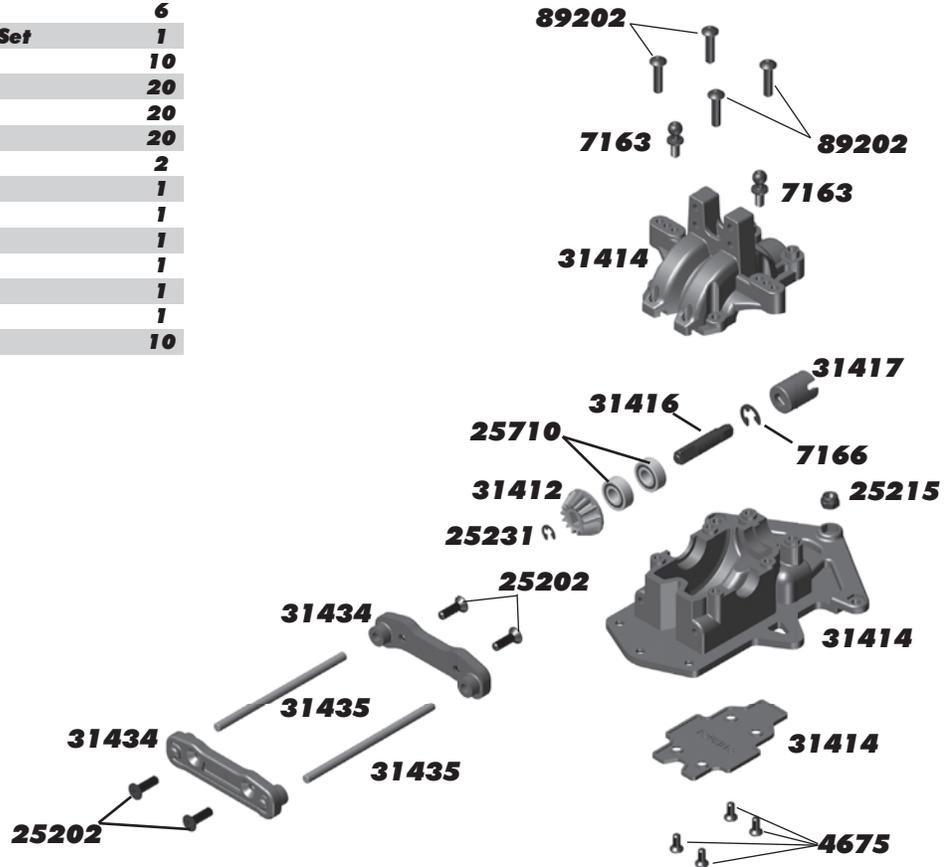
:: Battery Strap

21173	Body Clips, small	12
31421	APEX Battery Strap	1
31427	M3x12MM SHCS w/hole	6



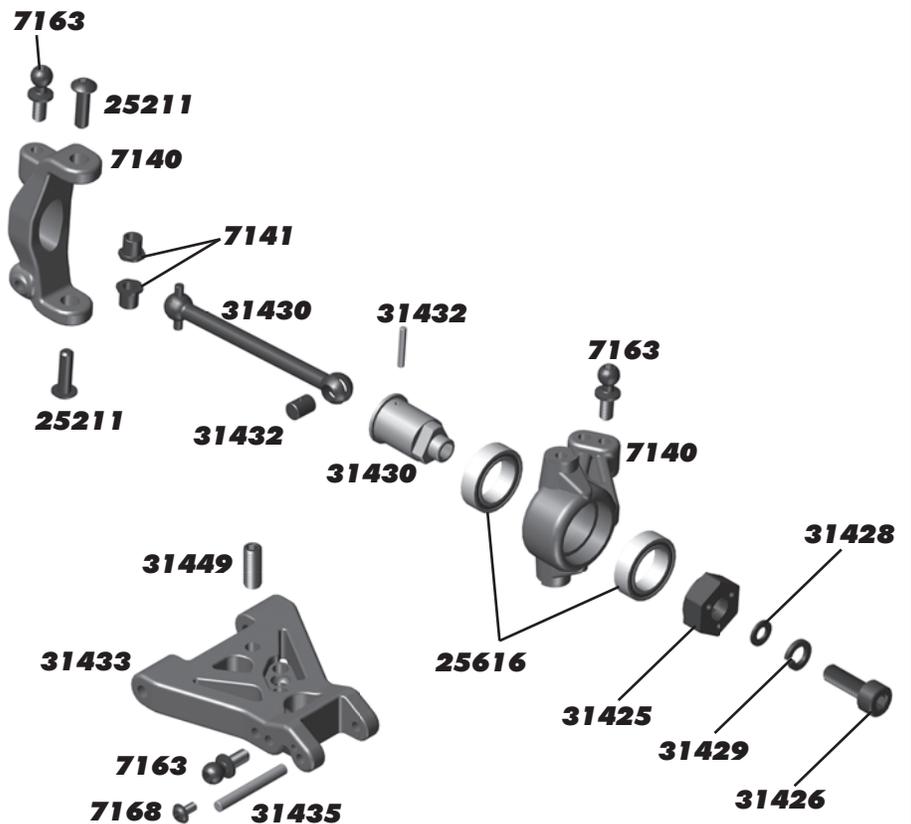
:: Front Gearbox

4675	M2.5x6mm FHCS	6
7163	Ball Stud, (3 short/7 long) Set	1
7166	4mm E-Clip	10
25202	M3x10mm FHCS	20
25215	M3 Locknut, black	20
25231	E-Clip, 2.5mm	20
25710	Bearing, 5 x 11 x 4	2
31412	APEX Diff Pinion	1
31414	APEX Front Gearbox	1
31416	APEX F/R Input Shafts	1
31417	APEX Drive Cup/Hub Set	1
31434	APEX Arm Mount Set	1
31435	APEX Hinge Pin Set	1
89202	M3x12mm BHCS	10



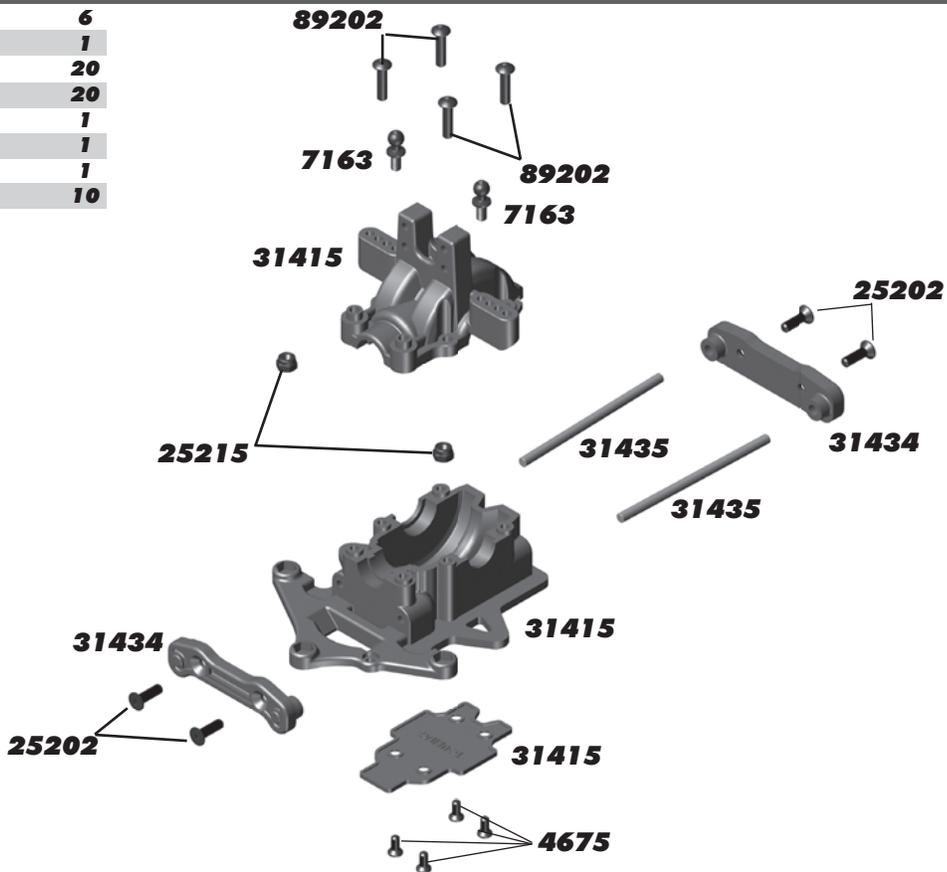
:: Front Suspension

7140	Steering & Caster Blocks	2ea
7141	Steering Block Bushing	4
7163	Ball Stud, (3 short/7 long) Set	1
7168	M2x4mm BHPS, Flanged	10
25211	M3x10mm BHCS	20
25616	Bearing, 10x15x4	2
31425	APEX Hex Drives	4
31426	M4x12mm SHCS	6
31428	4mm Hex Drive Washer	4
31429	4mm Lock Washer	4
31430	APEX Front CVA Set	1
31432	APEX CVA Rebuild Kit	1
31433	APEX Suspension Arm Set	1
31435	APEX Hinge Pin Set	1
31449	4x10mm Set Screw	4



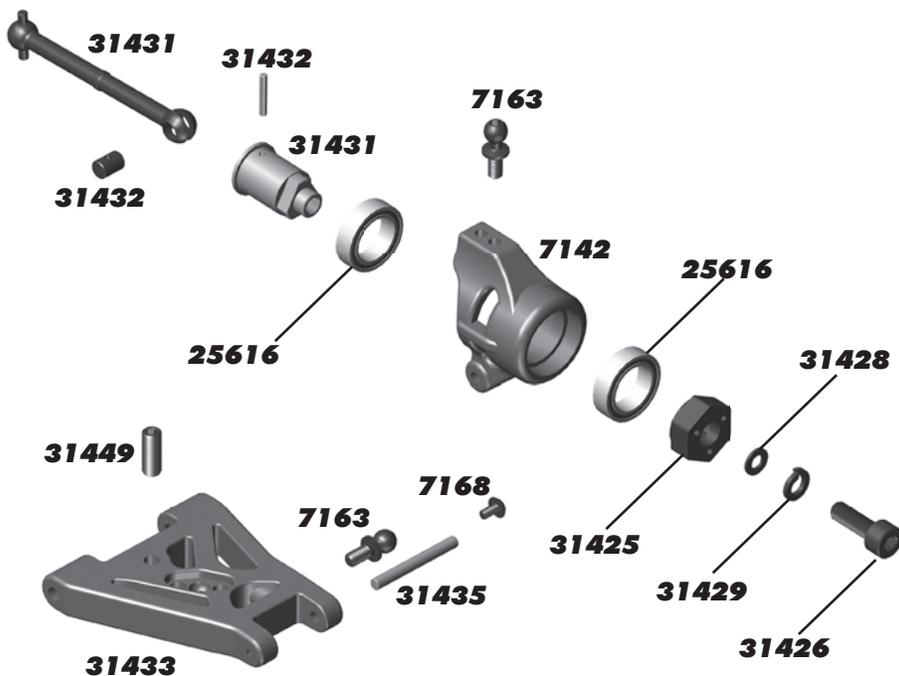
:: Rear Gearbox

4675	M2.5x6mm FHCS	6
7163	Ball Stud, (3 short/7 long) Set	1
25202	M3x10mm FHCS	20
25215	M3 Locknut, black	20
31415	APEX Rear Gearbox	1
31434	APEX Arm Mount Set	1
31435	APEX Hinge Pin Set	1
89202	M3x12mm BHCS	10



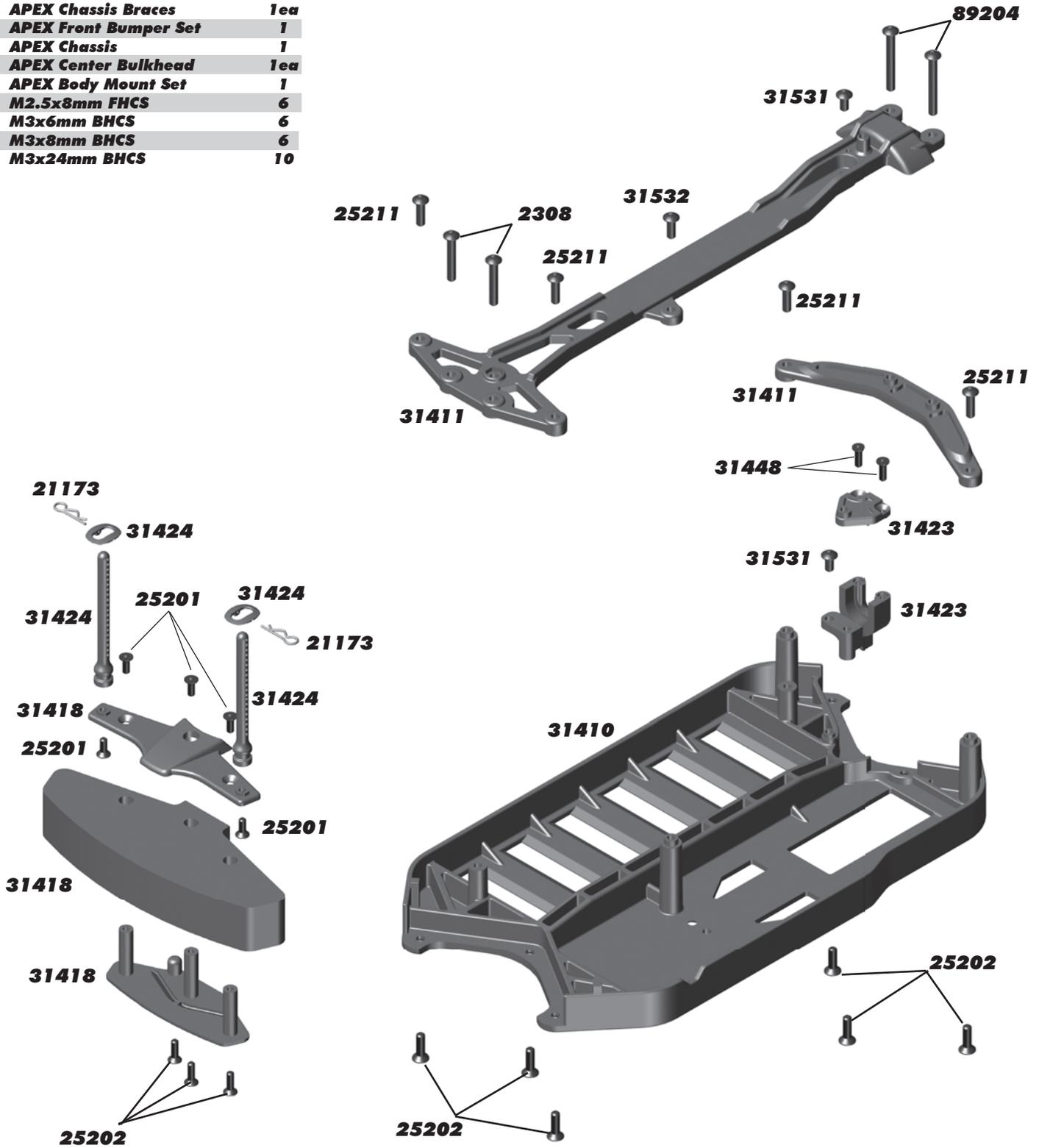
:: Rear Suspension

7142	Hub Carrier	2
7163	Ball Stud, (3 short/7 long) Set	1
7168	M2x4mm BHPS, Flanged	10
25616	Bearing, 10x15x4	2
31425	APEX Hex Drives	4
31426	M4x12mm SHCS	6
31428	4mm Hex Drive Washer	4
31429	4mm Lock Washer	4
31431	APEX Rear CVA Set	1
31432	APEX CVA Rebuild Kit	1
31433	APEX Suspension Arm Set	1
31435	APEX Hinge Pin Set	1
31449	4x10mm Set Screw	4



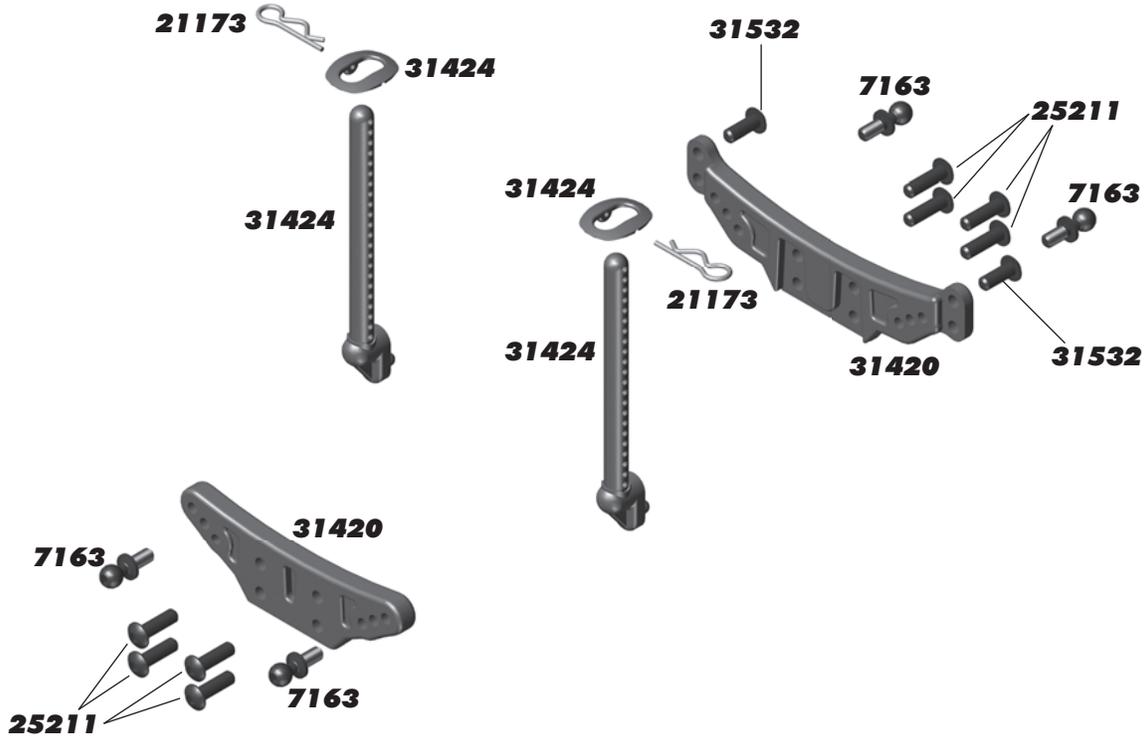
:: Front Bumper and Chassis

21173	Small Body Clips	12
25201	M3x8mm FHCS	20
25202	M3x10mm FHCS	20
25211	M3x10mm BHCS	20
31411	APEX Chassis Braces	1ea
31418	APEX Front Bumper Set	1
31410	APEX Chassis	1
31423	APEX Center Bulkhead	1ea
31424	APEX Body Mount Set	1
31448	M2.5x8mm FHCS	6
31531	M3x6mm BHCS	6
31532	M3x8mm BHCS	6
89204	M3x24mm BHCS	10



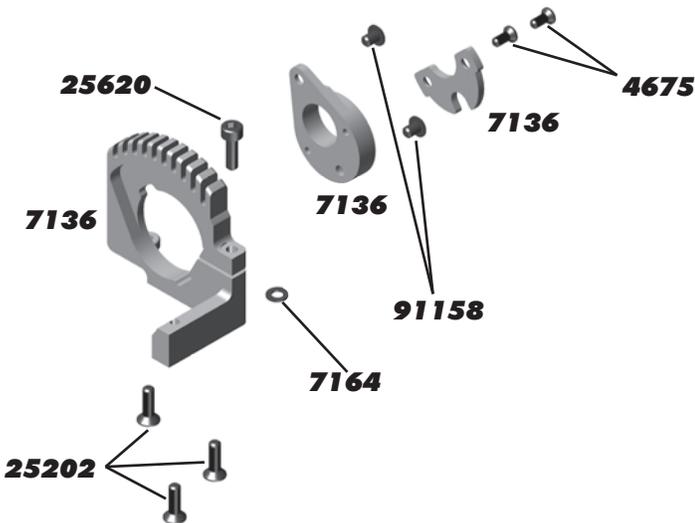
:: Front and Rear Shock Towers

7163	Ball Stud, (3 short/7 long) Set	1
21173	Body Clips, small	12
25211	M3x10mm BHCS	20
31420	APEX F/R Shock Towers	1ea
31424	APEX Body Mount Set	1
31532	M3x8mm BHCS	6



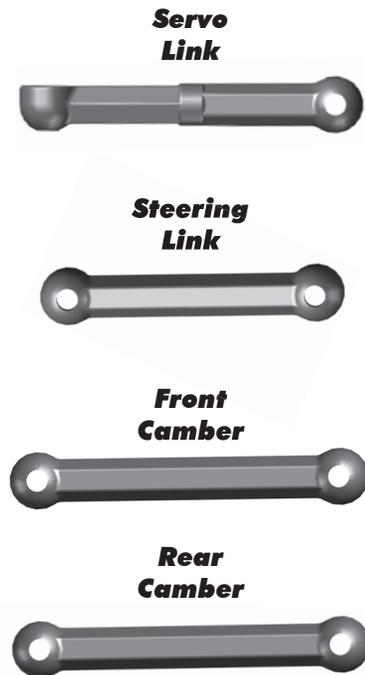
:: Motor Mount

4675	M2.5x6mm FHCS	6
7136	Motor Mount Set	1
7164	Washer, 3x6x0.5mm	10
25202	M3x10mm FHCS	20
25620	M3x10mm SHCS	20
91158	M3x4mm BHCS	10



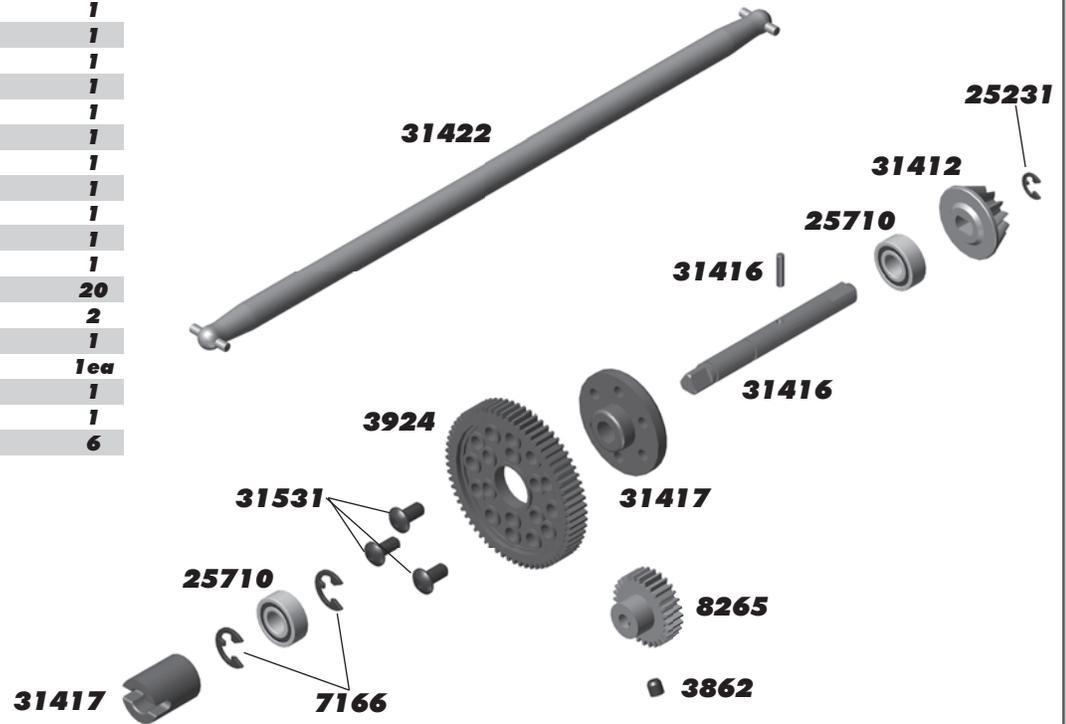
:: Turnbuckles

31419	APEX Suspension Link Set	1
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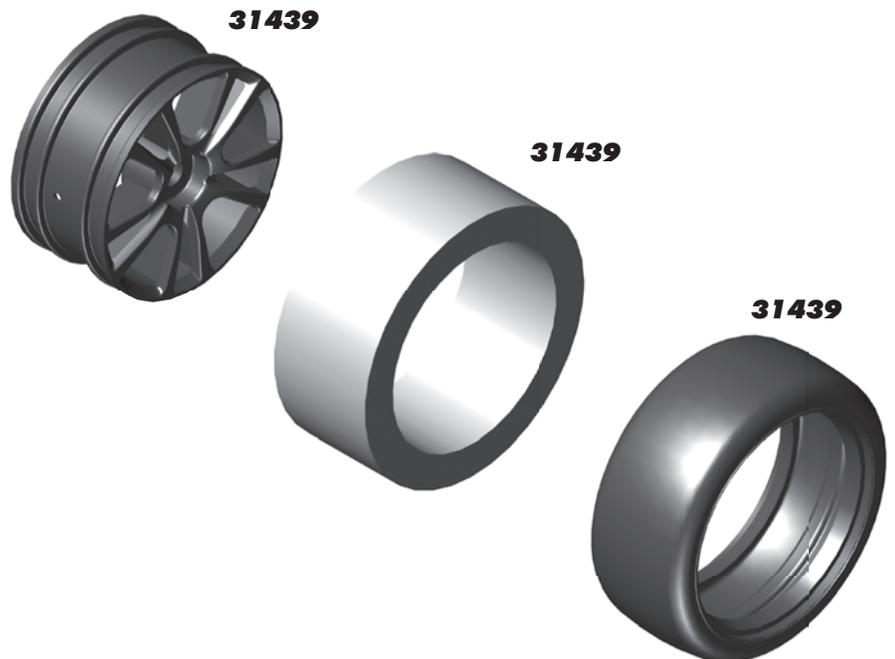
:: Slipper, Spur Gear, Pinion, and Drive Shaft

3862	5-40x1/8 Set Screw	6
3921	69T 48P Spur Gear	1
3922	72T 48P Spur Gear	1
3924	66T 48P Spur Gear - Kit	1
7166	4mm E-Clip	10
8260	23T 48P Pinion	1
8261	24T 48P Pinion	1
8263	26T 48P Pinion	1
8264	27T 48P Pinion	1
8265	28T 48P Pinion - Kit	1
8266	29T 48P Pinion	1
8267	30T 48P Pinion	1
8268	31T 48P Pinion	1
8269	32T 48P Pinion	1
8270	33T 48P Pinion	1
8271	34T 48P Pinion	1
8272	35T 48P Pinion	1
25231	E-Clip, 2.5mm	20
25710	Bearing, 5x11x4	2
31412	APEX Diff Pinion	1
31416	APEX Input Shafts F/R	1ea
31417	APEX Drive Cup / Hub Set	1
31422	APEX Main Drive Shaft	1
31531	M3x6mm BHCS	6



:: Wheels / Tires

31439	10 Spoke Wheels/Tires Mounted Black	2
31440	Sprint Drift Wheels/Tires Mounted Black	2
31441	10 Spoke Rim, Black	2
31442	5 Spoke Rim, Black	2
31443	5 Spoke Rim, White	2
31444	APEX RTR Tires w/Inserts	2
31445	Sprint Drift Tires	2



:: Body / Decals

1734	FT Body Clips, Metallic Blue, 4 long, 6 short	1
1735	FT Body Clips, Metallic Blue, long	4
1736	FT Body Clips, Metallic Blue, short	6
6332	Body Clips	6
31436	APEX Wing Set	1
31437	V-Type RTR Body Set	1
31447	APEX Decal Sheet	1

:: Factory Team and Option Parts

9787	FT Chassis Protective Sheet	1
31286	FT Ballstud Washer, aluminum (2mm and 1mm)	4ea
31446	APEX Spool Kit	1
31550	FT M3 Locknut, blue aluminum	6

:: XP Electronics

29107	DS1903/S1903 Metal Gear Set	1
29125	S1903MG Servo	1
29126	S2008MG High-Torque Servo	1
29127	DS2008/S2008 Metal Gear Set	1
29133	XP DS1903 Digital Servo	1
29134	XP DS1903MG Digital Servo	1
29135	XP DS2008MG Digital High-Torque Servo	1
29138	XP SC500-BL Brushless ESC	1
29139	XP SC900-BL Brushless ESC	1
29142	XP ESC Fan Option	1
29143	XP SC700-BL Brushless ESC	1
29144	XP SC1200-BL Brushless ESC	1
29145	XP SC1300-BL Brushless ESC	1
29166	XP DS1313 Digital Servo	1
29167	XP DS1015 Digital Servo	1
29168	XP DS1510MG 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
29214	TRS403-SSI 2.4GHz 4Ch Receiver	1
29215	XP2G 2.4GHz Radio System	1
29216	XP3G 2.4GHz Radio System	1
29250	XP DS1505 Digital Servo	1
29251	XP DS1505MG Digital Servo	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
LRP45050	LRP 2in1 LiPo Guard + BEC	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

:: 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
LRP62415	LRP Logo Sticker Sheet	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

:: Reedy Batteries

302	AA Alkaline 1.5V (4)	1
303	AA 2700mAh NiMH 1.2V Rechargeable (4)	1
309	LiPo 65C 7000mAh 7.4V	1
601	LiPo 65C 6500mAh 7.4V	1
628	LiPo 60C 5500mAh 7.4V	1
632	LiPo TX Lightweight Battery 1350mAh 11.1V	1
633	LiPo TX Battery - 3PK, M11 3000mAh 11.1V	1
634	LiPo TX Battery - Helios, Z1 2400mAh 11.1V	1
637	LiPo TX Battery - M11X 2500mAh 7.4V	1
681	Wolfpack 2400mAh 7.2V w/DEANS® connector	1
682	Wolfpack 3000mAh 7.2V w/DEANS® connector	1
683	Wolfpack 3600mAh 7.2V w/DEANS® connector	1
684	Wolfpack 4200mAh 7.2V w/DEANS® connector	1
730	Wolfpack LiPo 3000mAh 7.4V 25C w/DEANS®	1
731	Wolfpack LiPo 3300mAh 7.4V 35C w/DEANS®	1
732	Wolfpack LiPo 3400mAh 7.4V 35C w/DEANS®	1
734	Wolfpack LiPo 6500mAh 7.4V 25C w/DEANS®	1
735	Wolfpack LiPo 3900mAh 11.1V 35C w/DEANS®	1
736	Wolfpack LiPo 5000mAh 7.4V 25C	1

:: Reedy Motors and ESC's

908	Replacement Rotor 540-SL	1
920	540-SL Brushless Motor 3300kV	1
921	540-SL Brushless Motor 3900kV	1
922	540-SL Brushless Motor 4900kV	1
923	540-SL Brushless Motor 6100kV	1
940	Sonic 540 21.5 Competition Brushless Motor	1
941	Sonic 540 17.5 Competition Brushless Motor	1
941S	Sonic 540 17.5 Replacement Stator	1
942	Sonic 540 13.5 Competition Brushless Motor	1
943	Sonic 540 10.5 Competition Brushless Motor	1
944	Sonic 540 9.5 Competition Brushless Motor	1
945	Sonic 540 8.5 Competition Brushless Motor	1
946	Sonic 540 7.5 Competition Brushless Motor	1
947	Sonic 540 6.5 Competition Brushless Motor	1
948	Sonic 540 5.5 Competition Brushless Motor	1
949	Sonic 540 5.0 Competition Brushless Motor	1
950	Sonic 540 4.5 Competition Brushless Motor	1
951	Sonic 540 4.0 Competition Brushless Motor	1
952	Sonic 540 3.5 Competition Brushless Motor	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 13.0 x 25.3 (5.0)	1

:: Reedy Motors and ESC Combo's

965	Reedy 540-SL 3300kV/XP SC700-BL ESC Combo	1
966	Reedy 540-SL 3900kV/XP SC700-BL ESC Combo	1
967	Reedy 540-SL 4900kV/XP SC700-BL ESC Combo	1
983	Reedy 540-SL 3300kV/XP SC1200-BL ESC Combo	1
984	Reedy 540-SL 3900kV/XP SC1200-BL ESC Combo	1
985	Reedy 540-SL 4900kV/XP SC1200-BL ESC Combo	1
986	Reedy 540-SL 6100kV/XP SC1200-BL ESC Combo	1

:: Reedy Accessories

604	526-S AC/DC 2S-6S LiPo/LiFe Charger	1
605	Motor Cooling Fans (2)	1
607	Charge Harness 2S Standard Pack 4mm	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
974	540-SL/550-SL Steel Bearing Set	1
975	540-SL/550-SL 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

:: 1/18 Kits and RTR's

20103	RC18B2 - RC18T2 Team Kit	1
20110	RC18MT RTR (ready-to-run)	1
20115	RC18R Kamino RTR (ready-to-run)	1
20118	RC18R Niteline RTR (ready-to-run)	1
20121	SC18 RTR Brushless (ready-to-run)	1

:: 1/12, 1/10 Kits and RTR's

2042	Nitro TC3 RTR Plus (ready-to-run)	1
4020	FT 12R5.2 Kit	1
7023	RC10T4.1 FT Kit	1
7029	SC10 Associated/RC10.com Truck RTR (ready-to-run)	1
7030	SC10 KMC Wheels Race Truck RTR (ready-to-run)	1
7034	SC10 FT Kit	1
7037	RC10T4.1 RTR 2.4GHz Brushless (ready-to-run)	1
7046	SC10 RS RTR, Lucas Oil (ready-to-run)	1
7047	SC10 RS RTR, Monster Energy (ready-to-run)	1
7048	SC10 RS RTR, Pro Comp (ready-to-run)	1
7049	SC10 RS RTR, Rockstar/Makita (ready-to-run)	1
7050	SC10 RS RTR, Hart and Huntington (ready-to-run)	1
7052	ProLite 4x4 RTR (ready-to-run)	1
7092	GT2 RS Truck Nitro RTR (ready-to-run)	1
7093	SC10GT RTR (ready-to-run)	1
8022	FT RC10R5.1 Kit	1
9039	RC10B4.1 RTR 2.4GHz Brushless (ready-to-run)	1
9041	RC10B4.2 Kit	1
9050	SC10B RS RTR (ready-to-run)	1
9062	FT B44.2 4WD Buggy Kit	1
30101	TC4 Club Racer 4WD Touring Car Race Roller	1
30108	FT TC6.1 4WD Touring Car Kit	1
30112	APEX 4WD Touring Car RTR (ready-to-run)	1
90004	SC10 4x4 Kit	1
90005	SC10 4x4 Lucas Oil RTR (ready-to-run)	1
90006	SC10 4x4 Pro Comp RTR (ready-to-run)	1
90007	SC10 4x4 Rockstar/Makita RTR (ready-to-run)	1
90010	SC10 4x4 FT Kit	1

:: 1/8 Kits and RTR's

20501	MGT 4.60 SE RTR (ready-to-run)	1
20502	MGT 8.0 Nitro RTR (ready-to-run)	1
20503	Limited Edition MGT 4.60 Nitro RTR, w/flag body (ready-to-run)	1
20504	Limited Edition MGT 8.0 Nitro RTR, w/flag body (ready-to-run)	1
80905	RC8RS "Race Spec" Nitro Buggy RTR (ready-to-run)	1
80906	RC8.2 Nitro Buggy FT Kit	1
80907	RC8.2e Electric Buggy FT Kit	1
80908	RC8.2e Electric Buggy RTR (ready-to-run)	1
80912	RC8T Championship Edition RC8T-RS "Race Spec" Nitro Truggy RTR (ready-to-run)	1
80933	SC8.2e Short Course Race Truck, Rockstar/Makita Electric RTR (ready-to-run)	1
80934	SC8.2e Short Course Race Truck, Slick Mist Electric RTR (ready-to-run)	1

:: Apparel

SP35**	Reedy 09' White T-Shirt (L, XL)	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**	Stencil Blue T-Shirt (S, M, L, XL, 2-6XL)	1
SP67**	AE Stencil Gray Sweatshirt (S, M, L, XL, 2XL, 3XL)	1
SP68**	AE Stencil Blue T-Shirt (M, L, XL, 2XL)	1
SP69**	AE 26 Time World Championship T-Shirt, Black (S, M, L, XL, 2XL, 3XL)	1
SP70**	Associated Windbreaker (S, M, L, XL, 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, 2-4XL)	1
SP75**	AE Blue T-Shirt (S, M, L, XL, 2-6XL)	1
SP76**	AE Black T-Shirt (S, M, L, XL, 2-4XL)	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
110684	Team Associated Track Banner	1

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

:: RePlay Cameras

RP001	Replay XD1080 Complete Camera System	1
RP002	Replay XD720 Complete Camera System	1
RP021	Replay XD1080 Lens Bezel Kit	1
RP022	Replay XD1080 Clear Lens Cover	1
RP023	Replay XD1080 Lens Bezel & Rear Cap O-Ring	1
RP029	Replay XD1080 HDMI to Mini-HDMI	1
RP030	Replay XD1080 Mini 8-pin USB Charge Data Cable	1
RP032	USB DC Car Charger 1A Stubby	1
RP033	USB DC Car Charger 500mAh	1
RP034	Micro SDHC USB Reader	1
RP036	3M VHB 4991 Mount Adhesive for SnapTray	1
RP037	3M VHB 5962 Mount Adhesive for Pro Flat Mount	1
RP038	3M VHB 5962 Mount Adhesive for SnapTray	1
RP041	Replay XD Suction Cup Arm Mini Clamp	1
RP042	Replay XD Suction Cup Short Arm Base	1
RP043	Replay XD Skateboard Mount	1
RP044	Replay XD VHB SnapTray, Convex	1
RP045	Replay XD VHB SnapTray, Flat	1
RP046	Au Plug for Universal DC Wall Charger	1
RP047	Eu Plug for Universal DC Wall Charger	1
RP048	Uk Plug for Universal DC Wall Charger	1
RP049	Universal USB DC Wall Charger 1A	1

:: 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
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
7494	V2 Stamped Multi-Tool	1
7709	4 Inch Nylon Wire Ties	12

Associated Electrics, Inc.
26021 Commercentre Drive
Lake Forest, CA 92630-8853 USA
<http://www.TeamAssociated.com>
<http://www.RC10.com>
[http://twitter/Team Associated](http://twitter/TeamAssociated)
<http://bit.ly/AEonFacebook>

call: (949) 544-7500
fax: (949) 544-7501
Check out the following web sites for all of
our electric kits, current products, new
releases, setup help, tips, and racing info!

www.TeamAssociated.com - www.RC10.com

:: Hardware - 1:1 Scale View

Cap Head (shcs)

-  **3x10mm (25620)**
-  **3x12mm w/hole (31427)**
-  **4x12mm (31426)**

Setscrew

-  **3x3mm (25225)**
-  **4x3mm (25223)**
-  **4x4mm (7732)**
-  **4x10mm (31449)**

Shims and Washers

-  **Nylon Spacer .030 (4187)**
-  **Arm Shim (7158)**
-  **3x6mm Washer (7164)**
-  **3x8mm Thin Washer (89218)**
-  **4mm Hex Drive Washer (31428)**
-  **4mm Lock Washer (31429)**
-  **6x12mm Washer (7165)**
-  **Pro Lite Diff Shim (7133)**

Flat Head (fhcs)

-  **2.5x6mm (4675)**
-  **2.5x8mm (31448)**
-  **2.5x10mm (31350)**
-  **3x8mm (25201)**
-  **3x10mm (25202)**
-  **3x16mm (89224)**
-  **3x18mm (89209)**
-  **3x22mm (89455)**

Button Head (bhps)

-  **2x4mm, flanged (7168)**
-  **Tap Screw (7167)**

Ballstuds

-  **Ballstud, short (7163)**
-  **Ballstud, long (7163)**

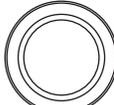
Nuts (lock/plain)

-  **M3 Locknut (25215)**
-  **M3 Alum. Locknut, Blue (31550)**
-  **M4 Locknut w/Flange & Knurl (91148)**
-  **FT M4 Locknuts w/Flange, Blue (31551)**

Button Head (bhcs)

-  **2.5x6mm (31520)**
-  **3x4mm(91158)**
-  **3x6mm (31531)**
-  **3x8mm (31532)**
-  **3x10mm (25211)**
-  **3x12mm (89202)**
-  **3x14mm (25187)**
-  **3x16mm (89203)**
-  **3x18mm (2308)**
-  **3x24mm (89204)**
-  **3x26mm (89205)**

Ball Bearings

-  **5x8mm (31400)**
-  **5x11x4mm, qty 2 (25710)**
qty 4 (25618)
-  **10x15x4mm (25616)**

:: Notes

A large, empty rectangular area intended for taking notes, framed by a thin black border.

:: Trouble Shooting

Description	Problem	Solution
No Power	Battery is discharged..... Battery not plugged in..... No light on speed control.... Receiver LED remains red.	Charge battery. Plug in battery. Reset speed control using your instruction manual. Re-bind transmitter to the receiver.
No Throttle	Motor not plugged in..... Speed control out of adjustment. Motor failure.....	Plug in motor. Reset speed control using your instruction manual. Replace motor.
No Steering	Servo not plugged in..... Locked up steering linkage. Servo failure.....	Plug servo in. Free up steering linkage. Replace servo.
Throttle	Goes backwards when you pull the trigger, or forward when pushing brakes / reverse.	Switch any two motor wires. Check throttle reversing switches on transmitter. Reset speed control.
Steering	Goes right when turning..... the wheel left (or left when turned right.)	Check steering reversing switches on transmitter.
Vehicle is glitching	Vehicle has a problem on.... power:	Check for loose wires or check for or dead radio batteries. Radio interference.
Reverse	No reverse or brakes.....	Check that reverse mode has not been turned off. Refer to speed control instructions. Reset speed control, or send in for repair.
Vehicle dies or slows	Speed control overheats.... Motor overheats..... Gear mesh set too tight..... LiPo mode engages.....	Let speed control cool off. Check gear, gear mesh, or bind in driveline. Let motor cool and check recommended gearing for motor type. Reset gear mesh (see instruction manual). LiPo mode on the ESC has engaged, recharge your batteries. (If running NiMH battery, turn off LiPo mode)