



# SRX2 RTR SC

*1/10 scale Ready To Race electro Short Course 2WD*

## INSTRUCTION MANUAL & REFERENCE GUIDE



powered by



## Introduction

*Thank you very much for buying this Serpent rc car. You are now member of a large following of Serpent fans worldwide. This Serpent car will bring you many hours and weekends of racing excitement.*

*Serpent started as rc racing company in 1980, and has developed many modelcars since. This wealth of experience and know how is used in our todays cars and that shows!*

*The Serpent Spyder series of cars is the best entry in the world of rc racing. Affordable and a very good basis to start your racing carreer. The Serpent Spyder RTR is based on the high-end competition version of the Spyder and shares geometry and many parts. Still its easy to use, maintain and set up. The RTR Spyder is fully upgradable to high end competition spec. The details can be found in our website.*

*Designed, tested and raced by Billy Easton, USA. World Champion.*

*This manual contains a number of steps you need to follow to operate the Serpent cars in the right way. This manual also contains a quick-start section, a partslist and exploded views, and a FAQ section. A full assembly manual can be found online in the Serpent.com website. So read this manual with great attention before racing this car. For your own safety as well as for others, and to ensure you can enjoy your Serpent car a long time, even if you are an experienced user. Serpent is not only about the car itself. Serpent as company, and the worldwide network or distributors and dealers are here to help you out.*

*The Serpent website and social media are available for assistance and additional information as well.*

*Enjoy your Serpent, the racing experience!*

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## Read this first

- This is a highly technical hobby product, intended to be used in a safe racing environment. This car is capable of speeds in excess of 70 km/h or 50mph.
- Please follow these guidelines when building and operating this model.
- Parental guidance is required when the builder/user of this car is under 16.
- Follow the building instructions. If in doubt, contact your dealer or importer.
- Be sure to use the proper tools when assembling the car. Always exercise caution when using electric tools, knives and other sharp objects.
- Be careful when using liquids like lubrication oil or glue.
- Do not swallow.
- Follow the manufacturer's instruction in case you experience irritation after using the product.
- Be careful when operating the car. Stay away from any rotating parts such as wheels, gears and transmission.
- Stay away from speedo during and immediately after use, as these parts may be very hot. We advise to use protective handgloves.
- Only operate this car in a safe environment, like a special racing track or a closed parking lot.
- Avoid using this car on public roads, crowded places or near infants.
- Before operating this car, always check the mechanical status of the car. Check that the batteries of the transmitter and receiver are fully charged. After use, always check all the mechanics of the car. We advise to clean the car immediately after use, and inspect the parts for wear or fractures. Replace when necessary. Do not use water, methanol, thinner or other solvents to clean the car.
- Store the car in a dry and heated place to avoid corrosion of metal parts.
- Avoid using this car in wet conditions as the water will cause corrosion on the metal parts and bearings and these parts will cease to function properly. If driven in the wet, ensure that all the electric equipment is waterproofed and after use, that all moving parts are dried immediately.

## Safety matters

All instructions in this manual must be followed to ensure safe use of the car. This model is not intended for use by children under 14 years .

### Important pre-cautions

- Only run the car in designated areas or areas with very few people, so no-one can get hurt.
- The car has a lot of power and the turning parts on the car can cause damage, also some parts of the car like transmission and motorparts can become very hot. So wear protective clothing both as driver and helper and be careful when picking up the car.
- Do not operate the car under dark conditions, as both you and others may not see the car properly and can get hurt, due to lack of car control.
- Use good common sense while operating the car so you can fully enjoy your car.

### Battery and battery-charging

- The battery and battery-charger are not included with this model. We advise to use good quality NimH or Lipo rechargeable battery-packs with 4000 mA or more. Check carefully to buy batteries with the correct connector for the speedcontroller, or also purchase and mount other fitting ones.
- Use proper battery-charger specifically designed for that type batteries and follow the instructions of the battery supplier and the charger correctly.
- Keep the battery and charger always in dry places only and never leave un-attended during charging.
- When the batteries are at their end of life, dispose them at a recycling-place, check [www.call2recycle.org](http://www.call2recycle.org) for more info.

## Quick-start

The quick-start section is not a replacement for the full instructions. To be able to use the model to its best take the time to read the full manual.

1. Read the manual and safety pre-cautions ( page 4)
2. Buy and install the batteries in the transmitter (see Transmitter manual)
3. Install the battery pack in the model, make sure the speedo is switched off, connect the cables (avoid reversed polarity) and securely fasten the battery-pack.
4. Turn on the transmitter (see Transmitter manual). Always turn on the transmitter first before to switch on the car and only turn off the transmitter after you switched off the car.
5. Check servo operation. Check that the servo works correctly and check that the car runs straight in neutral position, trim as needed. Perform a range test with the radio system
6. Personalise the body of your car by applying more decals if required.
7. Drive your modelcar.
8. Maintain your modelcar (page 9)

# Equipment



Included with your model:

- Serpent modelcar, factory assembled and set-up
- Dragon-RC DTS-1 transmitter (as shown or similar)
- Dragon-RC DESC speedcontroller
- Dragon-RC brushless motor
- Dragon-RC racing tyres, pre-mounts
- Dragon-Rc digital servo
- Serpent pretrained and pre-cut bodyshell



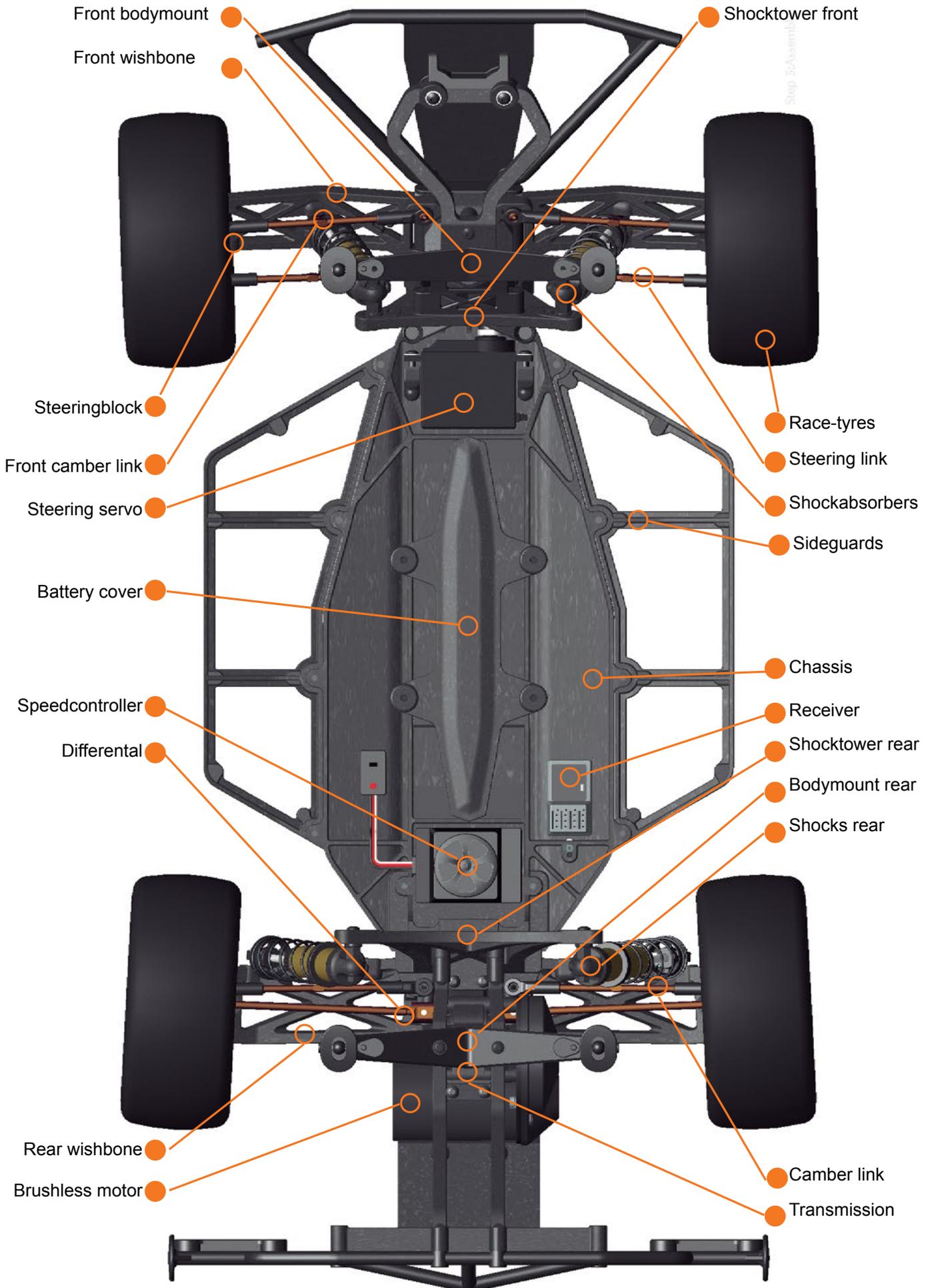
## Required for your model

- Multi Charger; to charge transmitter battery and car battery
- Battery pack 2-S Lipo
- Battery AA x 4 to operate the transmitter
- Tools: selection of allen tools and screw- drivers
- Hobby knife
- Camber gauge

## Recommended materials

- Side cutter and nose plier
- Cleaning brush and towel
- Safety glasses and gloves
- Cleaning gum
- Thin bearing oil
- Transmission grease
- CA glue
- Degreaser

# Model specs/overview



# Basic tuning

- **Springs:** by using a softer spring you will have more sag, more chassis roll/lean, more dive and a less responsive car this might be better on low-grip surfaces; by using a harder spring you have less sag, less body lean, less dive and a more responsive car. What to apply depends on driving style and grip-level surface. This is more suitable on high-grip surfaces.
- **Shock-angle:** the angle at which the shocks are mounted create a different suspension feel; the more vertical, the harder it feels, the more horizontal, the softer it feels.
- **Oil:** the viscosity of the shock-oil defines the dampening of the shockabsorber. Thinner oil will be softer, with slower response, thicker oil will be harder dampening with faster reponse. The dampening can also be fine-tuned by fitting other pistons with more or less holes, which is an optional.
- **Differential:** you can make the gear differential harder or softer by using a different oil viscosity. Lighter oil will create a looser diff which increases rear traction on acceleration, but also more understeer, and a harder differential will decrease rear traction on acceleration, but also more on-throttle steering
- **Toe adjustment:** Front: adjusted with the track-rods, make longer or shorter. More toe-in will create more steering, but less stability; toe-out will create a more stable car, with less steering.
- **Toe adjustment:** Rear: adjusted with suspension blocks (optional). More toe-in will create more traction, more stability, but less speed. Less toe in will create a less stable car, with less traction but higher speed.
- **Front camber:** using more negative camber in the front will give you more steering but also increases possible traction roll.
- **Rear camber:** using more negative camber in the rear will create more grip in the rear meaning also creating more understeer.
- **Front caster:** use optional caster blocks to change caster, more caster will create more steering but also increases possible traction roll. And less caster will create less steering but also decreases possible traction roll.
- **Wheel-base length:** a longer car will be more stable and react slower, a shorter car will be more nervous and more direct.
- **Gear-ratio:** spur and pinion: for correct gearmesh keep a piece of notebook paper at hand, to put between the spur and pinion for correct mesh.
- **Ride-height:** you can change the ride-height of the car, by applying more or less pre-load on the springs, turn the pre-load adjusters to set the desired height and keep left and right the same.

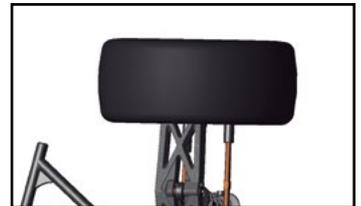
## Springs



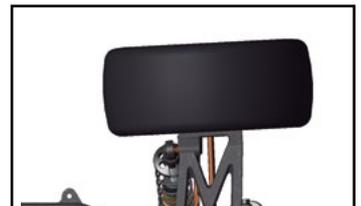
## Shock angle



## Front Toe-out



## Rear Toe-in



## Front camber



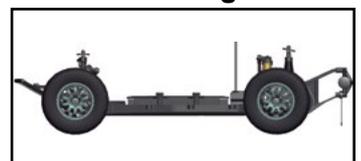
## Rear camber



## Gear-ratio



## Ride Height



# Default Set up



Driver: Kit RTR Setup Event: \_\_\_\_\_  
 Date: \_\_\_\_\_ Track: \_\_\_\_\_  
 Track-Temp \_\_\_\_\_ Air-Temp \_\_\_\_\_ Country/City/State: \_\_\_\_\_

Indoor     Tight     Medium     Smooth     Hard Packed     Grass     Astro-turf     Clay     Low Bite     High Bite  
 Outdoor     Open     \_\_\_\_\_     Rough     Blue Groove     Carpet     Multi-Surface     \_\_\_\_\_     Med Bite     \_\_\_\_\_

## Front Suspension

Sway Bar:  Yes Size \_\_\_\_\_ mm     No  
 Ride Height: 30 mm  
 Camber: 1 ° Negative  
 Toe:  In     Out 1 °  
 Front Bulkhead    Insert  
 20°     25°     30°  
 Stock / 25°     Brass  
 Aluminum

Caster Block Inserts  
 +     0 Deg     2.5 Deg     5 Deg  
 -     \_\_\_\_\_

Bump Steer 0 mm  
 Steering Ackerman  
 Opt.1     Opt.2     Opt.3

Shims \_\_\_\_\_ mm  
 Spindle Shims \_\_\_\_\_ mm

## Rear Suspension

Sway Bar:  Yes Size \_\_\_\_\_ mm     No  
 Ride Height: 30 mm  
 Camber: 2.0 ° Negative  
 RR-FR-Toe-Block  Stock     Brass

Outboard Toe-In  
 0 deg     0.5 deg     1.0 deg     1.5 deg     2.0 deg  
 +     -

Wheel Base     Shims \_\_\_\_\_ mm  
 Bulkhead Weight  Yes     No  
 Hex Adapter  
 - 0.75 mm     Stock     + 0.75 mm

Toe-In: \_\_\_\_\_ °  
 Anti-Squat: \_\_\_\_\_ °

0R  0    0L  0    UP  0R  0    0L  0  
 1R  1    1L  1    Down  1R  1    1L  1  
 2R  2    2L  2     Down  2R  2    2L  2

## Shocks

	Front	Rear
Shock Piston (1):	1.60 mm X 2	1.60 mm X 2
Shock Brand/Oil:	PT 350	PT 350
Shock Spring:	Blue	Blue
Shock Limiters(2):	2.75 mm	1.50 mm
Shock Length (3):	93.75 mm	119.00 mm
Rebound (4):	2.75 mm	1.50 mm
Bladder / Seal (5):	Seal	Seal
Spring Bucket:	High	Low

## Battery-Weight

"Weight Placement"  
 Type the weight in grams at the Location it's placed on the chassis

Battery Location (Measured from inside Front cross brace) :  
 Distance \_\_\_\_\_ mm

Vehicle Weight : \_\_\_\_\_ Grams     Standard Battery  
 Weight Bias - Front: \_\_\_\_\_ %    Rear: \_\_\_\_\_ %     Shorty Battery

## Gearing

Spur Gear (A): 86 T  
 Pinion Gear (B): 19 T  
 Gear Ratio (A/B)=C: 4.526  
 Final Drive (C\*2.43): 10.999

**Differential**  
 High     Med     Low  
 Ball Differential  
 Gear Differential  
 Oil cst/wt: 7000

## Electrics

Radio : \_\_\_\_\_  
 ESC : \_\_\_\_\_  
 Motor : \_\_\_\_\_  
 Servo : \_\_\_\_\_  
 Battery : \_\_\_\_\_

**Body-Wing**  
 Body : Serpent  
 Body Flares: \_\_\_\_\_  
 Side Guards: Yes  
 Body Vents FR: \_\_\_\_\_  
 Body Vents RR: \_\_\_\_\_

## Tires

	Front	Rear
Brand:	<u>Dragon RC</u>	<u>Dragon RC</u>
Model Name:	_____	_____
Compound:	_____	_____
Insert Type:	_____	_____
Wheels:	<u>Dragon RC</u>	<u>Dragon RC</u>
Tire Additive:	_____	_____

## Comments

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# Maintenance

- **Shockabsorbers**

Check for smooth operation of the shockabsorbers, and check for airbubbles by pushing the shock up and down fast after removal of the spring. Clean the shockabsorbers as needed and refill with fresh 100% pure silicone oil as needed.

- **Tyres**

Replace tyres if case worn or damaged, and clean the surface in case dirty to obtain better grip.

- **Wheel-axes and driveshafts**

Remove the wheels, and check the wheel-axes, driveshafts and pins. Clean thoroughly as needed and lubricate the touching parts with a small amount of grease or oil.

- **Differential**

Check the differentials and gears for wear and dirt and clean as needed. Check the functioning of the diff by turning the wheels in opposite direction and feel if still smooth or 'gritty'. In case of gritty feel, the silicone oil may need replacement.

The full assembly manual of this model is available online; check on [www.serpent.com](http://www.serpent.com) and type your modelnumber, partnumber, or select your car from the car-page; go to the download section in the menu and download the full manual.

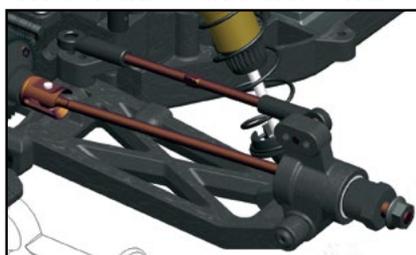
**Shockabsorbers**



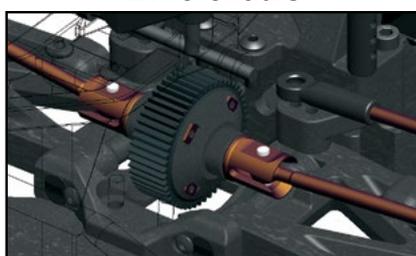
**Tyres**



**Wheel-axes and driveshafts**



**Differentials**



# Partslist and Optionals list

**Part no**      **Description**  
500005      Serpent Spyder SCT SXR-2 RM 2wd 1/10 RTR

## DECALS

1886      Decal serpent black/white 1/10 (2)  
1888      Decal serpent chrome 1/10 (2)  
500102      Decal sheet Spyder black/white (2)

## RADIO INSTALLATION / BATTERY

500188      Battery case inserts foam (6) SRX2 RM  
500360      Battery plate nut nylon (4) SRX2  
500374      Batteryplate nylon SRX2 SC RTR

## Optionals

500129      Speedcontroler mount SRX2 RM  
500165      Battery plate nut (4) SRX2  
500330      Batteryplate carbon SRX2 SC  
500331      Batteryplate foam SRX2 SC (2)

## SERVO SAVER AND STEERING

500117      Steeringarms L+R (3) SRX2  
500118      Servomount (2) SRX2  
500119      Servomount spacers (8) SRX2  
500120      Steeringlever (3) SRX2  
500121      Steeringrack (3) SRX2  
500369      Steeringrack bushing (8) SRX2 RTR

## Optionals

500197      Servomount alu (2) SRX2  
500236      Steeringrack alu (3) SRX2  
500287      Steering arm nr 1 brass L+R  
500288      Steering arm nr 2 brass L+R  
500289      Steering arm nr 3 brass L+R

## SHOCK ABSORBERS

500136      Shock parts frame (44) SRX2  
500137      Nut nylon M3 flanged (8)  
500152      Pivotball shock (4) SRX2  
500177      Shock cartridge spacer (4) SRX2  
500178      Shock cartridge spacer stepped (4) SRX2  
500183      Shock adjust nut / oring (2) SRX2  
500184      Shock bleeding oring (4) SRX2  
500185      Shock oring bottom (4) SRX2  
500326      Shock shaft fr (2) SRX2 SC  
500327      Shock shaft rr (2) SRX2 SC  
500362      Shock mount (4) SRX2 RM RTR  
500363      Shock top (2) SRX2 RTR  
500372      Shock top gasket (4) SRX2 RTR  
500375      Shock body fr (2) SRX2 SC RTR  
500376      Shock body rr (2) SRX2 SC RTR

## OPTIONALS

500176      Shock top (2) SRX2  
500179      Shock top gasket (4) SRX2  
500180      Shock membrane (4) SRX2  
500199      Shock top bushing delrin (4) SRX2  
500238      Shock piston conical 2 holes (4) SRX2  
500239      Shock piston conical 3 holes (4) SRX2  
500240      Shock piston conical 4 holes (4) SRX2  
500324      Shock body fr (2) SRX2 SC  
500325      Shock body rr (2) SRX2 SC

## SPRINGS

500230      Shock spring orange 2.0lbs rr (2) SRX2  
500231      Shock spring red 2.1lbs rr (2) SRX2  
500232      Shock spring pink 2.2lbs rr (2) SRX3  
500233      Shock spring blue 2.3lbs rr (2) SRX2

500234      Shock spring purple 2.4lbs rr (2) SRX2  
500235      Shock spring green 2.5lbs rr (2) SRX2  
500337      Shock spring orange 3.0lbs fr (2) SRX2 SC  
500338      Shock spring red 3.1lbs fr (2) SRX2 SC  
500339      Shock spring pink 3.2lbs fr (2) SRX2 SC  
500340      Shock spring blue 3.3lbs fr (2) SRX2 SC  
500341      Shock spring purple 3.4lbs fr (2) SRX2 SC  
500342      Shock spring green 3.5lbs fr (2) SRX2 SC

## FRONT SECTION

500110      Front bulkhead SRX2  
500117      Steeringarms L+R (3) SRX2  
500118      Servomount (2) SRX2  
500119      Servomount spacers (8) SRX2  
500120      Steeringlever (3) SRX2  
500121      Steeringrack (3) SRX2  
500132      C-hub insert (6) SRX2  
500133      Steeringrack bold (4) SRX2  
500138      Balljoint set (14) SRX2  
500144      Hinge pin fr inner / rr outer (2) SRX2  
500145      Hinge pin fr outer (2) SRX2  
500163      Hinge pin brace 25 deg fr SRX2  
500308      Bumper set front SRX2 SC  
500310      Shocktower fr SRX2 SC  
500312      Wisbones fr L+R SRX2 SC  
500314      Bulkhead fr SRX2 SC  
500316      C-hub L+R SRX2 SC  
500317      Steeringblock L+R SRX2 SC  
500321      Wheel axle fr (2) SRX2 SC  
500323      Track rod M3x71 (2) SRX2 SC  
500362      Shock mount (4) SRX2 RM RTR  
500366      Casterblock bushing (4) SRX2 RTR  
500367      Pivotball with shaft low (5) SRX2 RTR  
500368      Pivotball with shaft high (5) SRX2 RTR  
500369      Steeringrack bushing (8) SRX2 RTR

## Optionals

411187      Pivotball with shaft (2)  
500146      Shock mount (4) SRX2  
500147      Pivotball shim conical (10) SRX2  
500148      Pivotball with shaft low (4) SRX2  
500149      Pivotball with shaft med (5) SRX2  
500150      Pivotball with shaft high (4) SRX2  
500151      Casterblock bushing (4) SRX2  
500194      Antiroll bar set fr SRX2  
500198      Pivotball with shaft short (4) SRX2  
500200      Front bulkhead inserts alu (6) SRX2  
500203      Pivot pin brace 20 deg fr SRX2  
500204      Pivot pin brace 30 deg fr SRX2  
500208      Antiroll bar fr 0.9 SRX2  
500209      Antiroll bar fr 1.0 SRX2  
500210      Antiroll bar fr 1.1 SRX2  
500243      Front bulkhead alu SRX2  
500250      Front bulkhead brass SRX2  
500258      Antirollbar balljoints (2+2) SRX2  
500262      Pivot pin fr inner / rr outer TiN coated (2) SRX2  
500263      Pivot pin fr outer TiN coated (2) SRX2  
500301      Rim 1/10 SRX2 SC black (4)  
500302      Rim 1/10 SRX2 SC white (4)  
500303      Rim 1/10 SRX2 SC yellow (4)  
500336      Shocktower carbon fr SRX2 SC  
500346      Antirollbar wire adaptors (2+2) SRX2  
500348      Antirollbar mount FR SRX2

## MIDDLE SECTION

500188      Battery case inserts foam (6) SRX2 RM  
500304      Chassis SRX2 SC  
500329      Batteryplate nylon SRX2 SC

500360 Battery plate nut nylon (4) SRX2

#### Optionals

500129 Speedcontroler mount SRX2 RM  
500165 Battery plate nut (4) SRX2  
500330 Batteryplate carbon SRX2 SC  
500331 Batteryplate foam SRX2 SC (2)

#### REAR SECTION

401381 CVD insert (2)  
500108 Skidplate SRX2 RM  
500134 Rear suspension insert (24) SRX2  
500135 Upright inserts (10) SRX2  
500138 Balljoint set (14) SRX2  
500143 Pivot pin rr inner (2) SRX2 RM  
500144 Hinge pin fr inner / rr outer (2) SRX2  
500305 Mud flap SRX2 SC (2)  
500309 Bumper set rear SRX2 SC  
500311 Shocktower rr SRX2 SC  
500313 Wishbones rr L+R SRX2 SC  
500315 Upright L+R SRX2 SC  
500320 Driveshaft rr (2) SRX2 SC  
500322 Wheel axle rr (2) SRX2 SC  
500323 Track rod M3x71 (2) SRX2 SC  
500361 Suspension bracket rr fr SRX2 RM RTR  
500362 Shock mount (4) SRX2 RM RTR  
500368 Pivotball with shaft high (5) SRX2 RTR  
500377 Wheelhexagon (2) SRX2 SC RTR

#### Optionals

500109 Suspension bracket rr fr SRX2 RM  
500131 Rear bulkhead SRX2 RM  
500146 Shock mount (4) SRX2  
500147 Pivotball shim conical (10) SRX2  
500149 Pivotball with shaft med (5) SRX2  
500150 Pivotball with shaft high (4) SRX2  
500195 Antiroll bar set rr SRX2 RM  
500198 Pivotball with shaft short (4) SRX2  
500205 Antiroll bar rr 1.1 SRX2  
500206 Antiroll bar rr 1.3 SRX2  
500207 Antiroll bar rr 1.5 SRX2  
500244 Rear bulkhead weight SRX2  
500245 Suspension bracket rr fr brass SRX2 RM  
500255 Suspension insert rr 3deg alu (2) SRX2  
500258 Antirollbar balljoints (2+2) SRX2  
500261 Pivot pin rr inner TiN coated (2) SRX2 RM  
500262 Pivot pin fr inner / rr outer TiN coated (2) SRX2  
500301 Rim 1/10 SRX2 SC black (4)  
500302 Rim 1/10 SRX2 SC white (4)  
500303 Rim 1/10 SRX2 SC yellow (4)  
500319 Wheelhexagon SRX2 SC (2)  
500333 Wheelhexagon -0.75mm offset SRX2 SC (2)  
500334 Wheelhexagon +0.75mm offset SXR2 SC (2)  
500335 Shocktower carbon rr SRX2 SC  
500346 Antirollbar wire adaptors (2+2) SRX2  
500347 Antirollbar spacer (2) SRX2  
500349 Antirollbar mount RR SRX2 RM

#### TRANSMISION

500122 Transmissioncase SRX2 RM  
500123 Diffheight insert (4) SRX2  
500124 Transmissioncase insert (6) SRX2 RM  
500127 Gear cover SRX2  
500154 Idler gear shaft SRX2  
500192 Geardiff set SRX2  
500246 Geardiff gears 14T(4)+28T(2) SRX2  
500247 Diff pin 14T (2) SRX2  
500248 Geardiff o-ring (4) SRX2  
500249 Geardiff outdrive (2) SRX2  
500253 Geardiff cap L+R SRX2  
500254 Geardiff housing 51T SRX2

500257 Geardiff nut (4) SRX2  
500343 Motor plate SRX2 RM standard  
500344 Idler gear 27T SRX2 steel  
500352 Top-shaft set 21T stock SRX2  
500353 Top-shaft 21T stock SRX2

#### OPTIONALS

411069 Differential balls steel 1/8" (12)  
411107 Diff balls. 1/8 ceramic (12)  
500153 Top shaft 21T SRX2  
500157 Slipper plate alu (3) SRX2  
500158 Slipper pad yellow (3) SRX2  
500159 Slipper spring (2) SRX2  
500160 Slipper bolt topshaft (2) SRX2  
500164 Motor plate SRX2 RM  
500166 Idler gear 27T SRX2  
500167 Diff pully balldiff 51T (1) SRX2  
500168 Diff ring balldiff (2) SRX2  
500169 Balldiff outdrive male SRX2  
500170 Balldiff outdrive female SRX2  
500171 Balldiff spring (2) SRX2  
500172 Balldiff bolt (2) SRX2  
500173 Balldiff thrustbearing SRX2  
500186 Balldiff set SRX2  
500187 Balldiff T-nut (2) SRX2  
500242 Slipper plates vented alu (3) SRX2  
500256 Thrustbearing carbide balldiff SRX2  
500259 Differential balls carbide 1/8" (12)  
500260 Idler gear 27T alu SRX2  
600116 O-ring tank (4)

#### Bodymount Fr / Rr

500306 Body mount set front SRX2 SC  
500307 Body mount set rear SRX2 SC

#### BODY AND WING

170335 Body 1/10 SRX2 SC pre painted/pre cut orange

#### Optionals

500328 Body SRX2 SC 2wd 1/10

#### SPURGEAR

500213 Spur gear 70T SRX2  
500214 Spur gear 72T SRX2  
500215 Spur gear 76T SRX2  
500216 Spur gear 78T SRX2  
500217 Spur gear 80T SRX2  
500218 Spur gear 82T SRX2  
500219 Spur gear 84T SRX2  
500220 Spur gear 86T SRX2  
500221 Spur gear 88T SRX2

#### PINIONS

120156 Motor-pinion alu hard 48P / 18T  
120157 Motor-pinion alu hard 48P / 19T  
120158 Motor-pinion alu hard 48P / 20T  
120159 Motor-pinion alu hard 48P / 21T  
120160 Motor-pinion alu hard 48P / 22T  
120161 Motor-pinion alu hard 48P / 23T  
120162 Motor-pinion alu hard 48P / 24T  
120163 Motor-pinion alu hard 48P / 25T  
120164 Motor-pinion alu hard 48P / 26T  
120165 Motor-pinion alu hard 48P / 27T  
120166 Motor-pinion alu hard 48P / 28T  
120167 Motor-pinion alu hard 48P / 29T  
120168 Motor-pinion alu hard 48P / 30T

#### BALL-BEARINGS

1340 Ball-bearing 5x13 hs (2)  
1311 Ballbearing 5x8x2.5 (2)  
1315 Ballbearing 5x10x4 (2)

1344 Ball-bearing 10x15x4 hs (2)  
 401133 Ballbearing 4x8 (2)  
 500173 Balldiff thrustbearing SRX2

**Fastners**

110101 Screw allen countersunk m4x8 (10)  
 110102 Screw allen countersunk m4x10 (10)  
 110103 Screw allen countersunk m4x16 (10)  
 110104 Screw allen countersunk m3x8 (10)  
 110105 Screw allen countersunk m4x12 (10)  
 110106 Screw allen flanged roundhead m5x12 (10)  
 110107 Screw allen cilinderhead m3x16 (10)  
 110108 Screw allen roundhead m3x6 (10)  
 110109 Screw allen roundhead m3x10 (10)  
 110110 Screw allen roundhead m3x16 (10)  
 110111 Screw allen roundhead m3x14 (10)  
 110112 Screw allen roundhead m3x12 (10)  
 110113 Screw allen roundhead m4x8 (10)  
 110114 Setscrew allen m3x8 (10)  
 110115 Setscrew allen m3x4 (10)  
 110116 Setscrew allen m3x3 (10)  
 110117 Setscrew allen m3x12 (10)  
 110118 Setscrew allen m4x4 (10)  
 110119 Setscrew allen m4x6 (10)  
 110120 Setscrew allen m4x10 (10)  
 110121 Setscrew allen m5x6 (10)  
 110122 Screw allen countersunk m3x6 (10)  
 110123 Screw philips roundhead 3.5x13 (10)  
 110124 Screw allen roundhead m3x8 (10)  
 110125 Screw allen countersunk m3x20 (10)  
 110126 Screw allen countersunk m2.5x12 (10)  
 110127 Screw allen countersunk m3x12 (10)  
 110128 Screw allen roundhead m3x5 (10)  
 110129 Screw allen cilinderhead m3x10 (10)  
 110130 Screw allen roundhead m2.5x6 (10)  
 110131 Screw allen roundhead m2.5x10 (10)  
 110132 Screw allen countersunk m3x16 (10)  
 110133 Screw philipshead countersunk 2.5x8 wide (10)  
 110134 Screw philipshead countersunk 2.5x10 wide (10)  
 110135 Screw allen countersunk M2.5x10 (10)  
 110136 Screw allen countersunk M2.5x8 (10)  
 110137 Setscrew allen M3x6 (10)  
 110138 Screw allen countersunk M4x14 (10)  
 110139 Screw allen countersunk M3x40 (10)  
 110140 Screw allen roundhead M3x20 (10)  
 110141 Screw allen roundhead M3x22 (10)  
 110142 Screw allen roundhead M3x25 (10)  
 110143 Screw allen roundhead M4x18 (10)  
 110144 Screw allen roundhead M3x18 (10)  
 110145 Screw allen roundhead flanged M3x12 (10)  
 110146 Screw allen roundhead flanged M3x16 (10)  
 110147 Screw ph roundhead M2.5x5 (10)  
 110148 Setscrew allen M5x4 (10)  
 110149 Screw allen countersink M2x10 (10)  
 110150 Screw M6x12 nylon black (2)  
 110151 Screw allen cilinderhead M4x10 (10)  
 110152 Screw allen cilinderhead M3x8 (10)  
 110153 Screw allen roundhead M2.3x4(10)  
 110154 Setscrew allen M3x10 (10)  
 110155 Setscrew allen M3x5 (10)  
 110156 Screw allen countersunk M2.2x6 (10)  
 110157 Screw allen countersunk M3x5 (10)  
 110158 Screw allen countersunk M3x15 (10)  
 110159 Screw allen countersunk M3x18 (10)  
 110160 Screw allen cilinderhead M2.2x12 (10)  
 110161 Screw allen cilinderhead M2x6 (10)  
 110162 Setscrew allen M3x2.5 (10)  
 110163 Setscrew allen M3x2 (10)  
 110164 Screw allen roundhead M3x4 (10)  
 110165 Screw allen cilinderhead M2x5 (10)  
 110166 Screw allen countersunk M2.5x5 (10)

110167 Screw allen roundhead flanged M3x18 (10)  
 110168 Screw allen roundhead flanged M3.5x10 (10)  
 110169 Screw allen roundhead flanged M4x10 (10)  
 110170 Screw allen roundhead flanged M3x28 (10)  
 110171 Screw ph roundhead widethread 2.5x6 (10)  
 110172 Screw allen roundhead flanged M3X6 (10)  
 110173 Screw ph countersunk widethread 2.5x12 (10)  
 110174 Screw allen countersunk M4x6 (10)  
 110175 Screw allen cilinderhead M3x40 (10)  
 110176 Screw allen cilinderhead M3x18 (10)  
 110177 Screw allen roundhead M4x12 (10)  
 110178 Screw allen cilinderhead M3x14 (10)  
 110179 Screw allen roundhead M2.5x8 (10)  
 110180 Setscrew allen M5x10 (10)  
 110181 Screw M5x10 + Nut nylon black (4+4)  
 110182 Screw allen roundhead M2x4 (10)  
 110183 Screw allen countersunk M3x10 (10)  
 110184 Screw allen countersunk M3x14 (10)  
 110185 Screw allen cilinderhead M3x30 (10)  
 110186 Screw allen cilinderhead M3x35 (10)  
 110187 Setscrew allen M3x16 (10)  
 110188 Screw allen cilinderhead M2x10 (10)  
 110200 Pin 2.5x8 (10)  
 110201 Pin 3x12 (10)  
 110202 Pin 5x5 (10)  
 110203 Pin 3x14 (10)  
 110204 Pin 3x20 (10)  
 110205 Pin 3x22 (10)  
 110206 Pin 2.5x22 (10)  
 110207 Pin 2.5x12 (10)  
 110208 Pin nra 2x9.8 (4)  
 110209 Pin nra 2x18 (4)  
 110210 Pin 3x13 (10)  
 110211 Pin 2.5x13 (10)  
 110212 Pin 2.5x17 (10)  
 110213 Pin 2.5x10 (10)  
 110214 Pin 3x15 (10)  
 110215 Pin 2x12 (10)  
 110216 Pin 2.5x15 (10)  
 110217 Pin 2x9 (10)  
 110218 Pin 3x10 (10)  
 110219 Pin 2x14 (10)  
 110220 Pin 1.5x8 (10)  
 110221 Pin 1.7x7.6 (10)  
 110222 Pin 1.7x8.5 (10)  
 110300 E-clip 2.3 (10)  
 110301 E-clip 3.2 (10)  
 110302 E-clip 4.0 (10)  
 110303 E-clip 5.0 (10)  
 110304 E-clip 7.0 (10)  
 110305 Seger clip 12x1.0 (10)  
 110306 E-clip 6.0 (10)  
 110307 E-clip 9.0 (10)  
 110400 Shim 6.0x10x0.2(10)  
 110401 Shim3.2x7x0.5 (10)  
 110402 Nut nylock M3 (10)  
 110403 Nut nylock M4 (10)  
 110404 Shim 6x8x0.3 (10)  
 110405 Nut nylock M4 flanged (10)  
 110406 Nut nylock M2.2 (10)  
 110407 Nut M3 (10)  
 110408 Shim 3X5X0.3 (10)  
 110409 Shim 3X5X1 (10)  
 110410 Shim 3X5X2 (10)  
 110411 Shim 3X5X4 (10)  
 110412 Shim 3.5X8X1 (10)  
 110413 Shim 3.5X12X0.2 (10)  
 110414 Shim 3X6X0.1 (10)  
 110415 Shim 3X6X0.5 (10)  
 110416 Shim 3X6X0.8 (10)  
 110417 Shim 3X6X3 (10)



110418	Shim 4X8X0.1 (10)	190176	Winter jacket Serpent black-orange hooded (3XL)
110419	Shim 4X9.5X1 (10)	190208	Winter jacket Serpent black-orange hooded (4XL)
110420	Shim 4X9.5X2(10)	190156	Polo shirt Serpent black (S)
110421	Shim 4X9.5X4(10)	190157	Polo shirt Serpent black (M)
110422	Shim 4X10X0.3 (10)	190158	Polo shirt Serpent black (L)
110423	Shim 5X8X0.1 (10)	190159	Polo shirt Serpent black (XL)
110424	Shim 5X8X0.3 (10)	190160	Polo shirt Serpent black (XXL)
110425	Shim 5X10X0.3 (10)	190161	Polo shirt Serpent black (XXXL)
110426	Shim 5X10X0.5 (10)	190182	T-shirt Serpent Splash white (S)
110428	Shim 6.5X8X0.25 (10)	190183	T-shirt Serpent Splash white (M)
110429	Shim 6X11.75X0.2 (10)	190184	T-shirt Serpent Splash white (L)
110431	Shim 8X11X0.1 (10)	190185	T-shirt Serpent Splash white (XL)
110432	Shim 8X11X0.2 (10)	190186	T-shirt Serpent Splash white (XXL)
110433	Shim 12X15X0.25 (10)	190187	T-shirt Serpent Splash white (XXXL)
110434	Shim 12X18X0.3 (10)	190188	T-shirt Serpent Splash orange (S)
110435	Shim 13X16X0.2 (10)	190189	T-shirt Serpent Splash orange (M)
110436	Shim 3x5x3 (10)	190190	T-shirt Serpent Splash orange (L)
110437	Nut M2.5 (10)	190191	T-shirt Serpent Splash orange (XL)
110438	Shim 2.5x6x0.5 (10)	190192	T-shirt Serpent Splash orange (XXL)
110439	Shim 3x7.5x1 (10)	190193	T-shirt Serpent Splash orange (XXXL)
110440	Shim 2.5x5x0.4 (10)	190194	T-shirt Serpent Splash black (S)
110441	Nut nylock M3 flanged (10)	190195	T-shirt Serpent Splash black (M)
110442	Shim 4x8x0.6 (10)	190196	T-shirt Serpent Splash black (L)
110443	Shim 5x15x0.2 (10)	190197	T-shirt Serpent Splash black (XL)
110444	Nut M4 nylon (10)	190198	T-shirt Serpent Splash black (XXL)
110445	Shim 4x10x0.2 (10)	190199	T-shirt Serpent Splash black (XXXL)
110446	Shim 5x15x0.2 (10)	190201	Hoody sweater Serpent black-zip (S)
110447	Shim 3x7x7 (10)	190202	Hoody sweater Serpent black-zip (M)
110448	Shim 3x6x6 (10)	190203	Hoody sweater Serpent black-zip (L)
110449	Shim 3x6x1 (10)	190204	Hoody sweater Serpent black-zip (XL)
110450	Nut M2 (10)	190205	Hoody sweater Serpent black-zip (2XL)
110451	Nylock nut M4 flanged alu (10)	190206	Hoody sweater Serpent black-zip (3XL)
110452	Nut M4 flanged knurled (10)	190207	Hoody sweater Serpent black-zip (4XL) )
110453	Shim 3x7x3 (10)	190215	T-shirt Serpent WC edition black (S)

**TOOLS**

190508	Toolset for offroad (20pcs) with tools bag
190509	Allen wrench 1.5 x 120mm
190510	Allen wrench 2.0 x 120mm
190511	Allen wrench 2.5 x 120mm
190512	Allen wrench 3.0 x 120mm
190513	Ball driver hex wrench 2.0 x 120mm
190514	Ball driver hex wrench 2.5 x 120mm
190515	Ball driver hex wrench 3.0 x 120mm
190516	Tool tip allen wrench 1.5 x 120mm
190517	Tool tip allen wrench 2.0 x 120mm
190518	Tool tip allen wrench 2.5 x 120mm
190519	Tool tip allen wrench 3.0 x 120mm
190520	Tool tip ball driver hex wrench 2.0 x 120mm
190521	Tool tip ball driver hex wrench 2.5 x 120mm
190522	Tool tip ball driver hex wrench 3.0 x 120mm
190523	Turnbuckle wrench 3mm
190524	Turnbuckle wrench 4mm
190525	Turnbuckle wrench 5mm
190526	Flat head screwdriver 3.0 x 150mm
190527	Flat head screwdriver 4.0 x 150mm
190528	Phillips screwdriver 2.0 x 45mm
190529	Phillips screwdriver 3.5 x 120mm
190530	Phillips screwdriver 5.8 x 120mm
190539	Nut driver 4.5 x 100mm
190531	Nut driver 5.0 x 100mm
190532	Nut driver 5.5 x 100mm
190533	Nut driver 7.0 x 100mm
190534	Reamer with end cap for lexan body

**MERCHANDISING**

1896	Cap serpent black-orange
190172	Winter jacket Serpent black-orange hooded (M)
190173	Winter jacket Serpent black-orange hooded (L)
190174	Winter jacket Serpent black-orange hooded (XL)
190175	Winter jacket Serpent black-orange hooded (2XL)



**Transmitter, reciver,servo, parts**

210004	Servo digital 0.14s/7,2kg
210006	Servo case for #210004
210008	Servo gear set for #210004
210009	Transmitter set DTS-2 with display 2.4 Ghz
210010	Transmitter DTS-2 with display 2.4Ghz
210011	Receiver DRS-2 on 2.4Ghz

**Speed controller, motor, parts**

211004	Motor brushless DL10 9T-3600kv
211009	Speedo 1/10 DX-WP 60A with fan
211011	Program card DX series

**Tyres rubber offroad and wheels**

214022	1/10 SC Tyre mounted on white rim (2)
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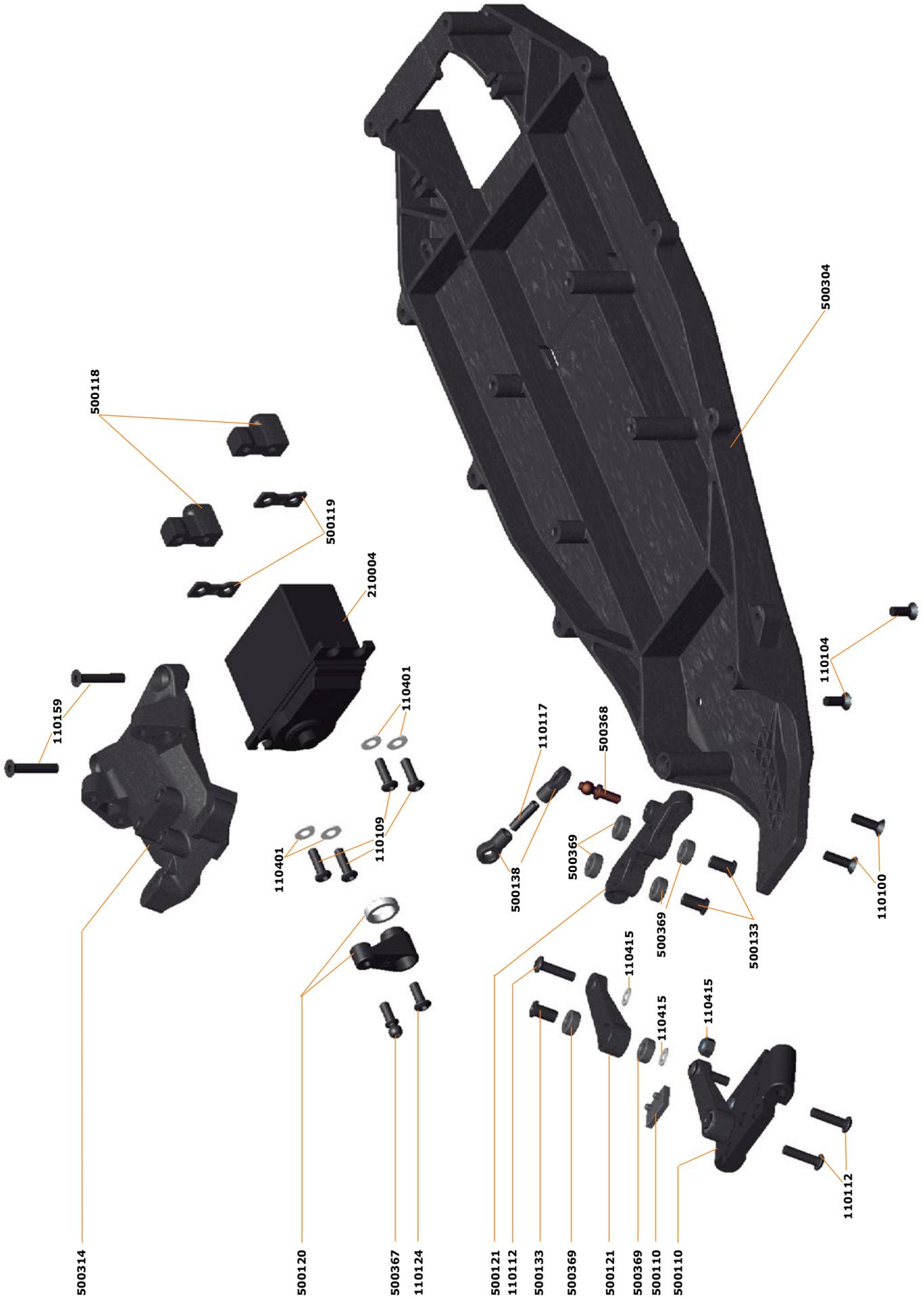
**Body**

213019	Body 1/10 Shortcourse semi painted
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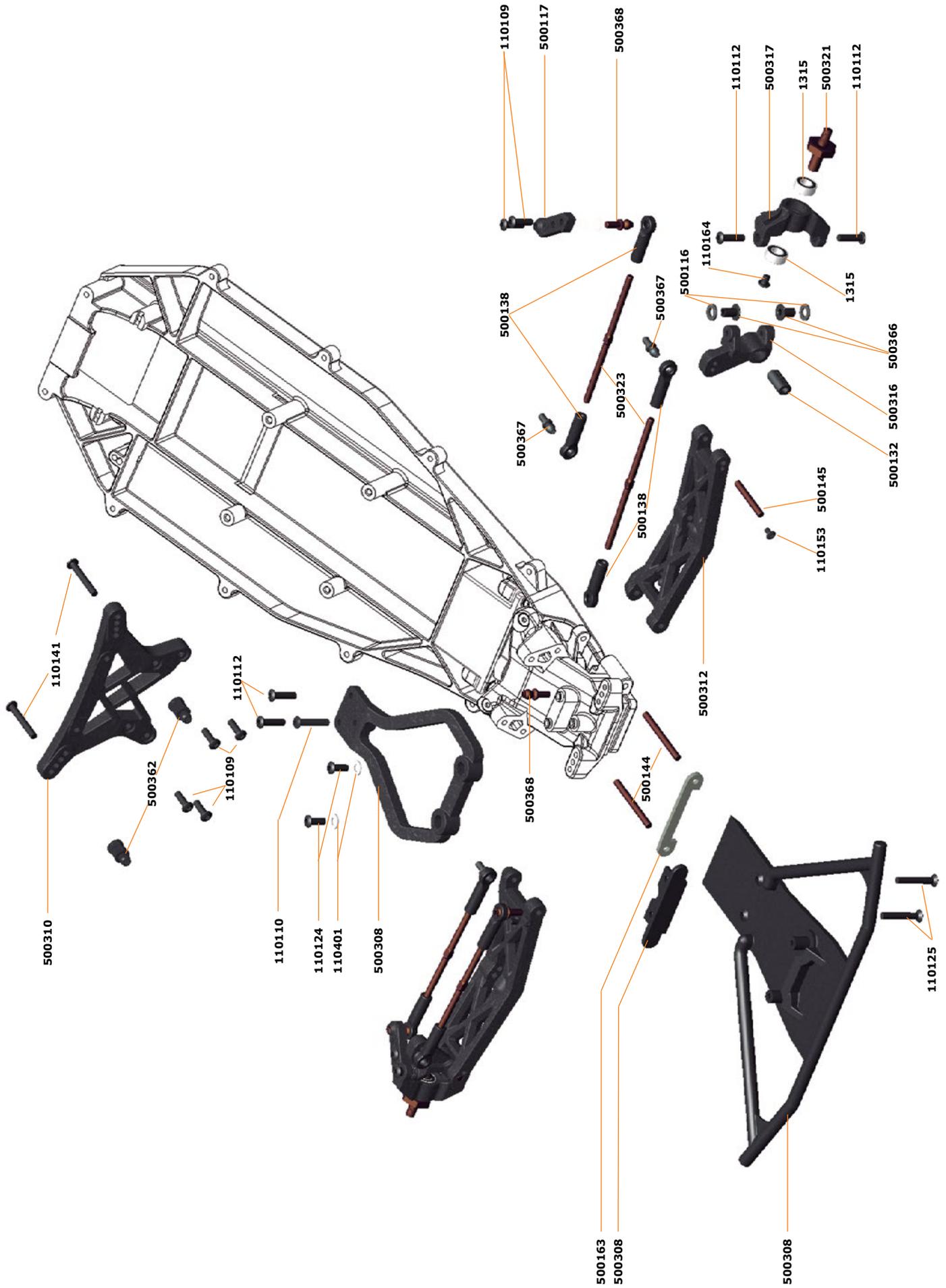
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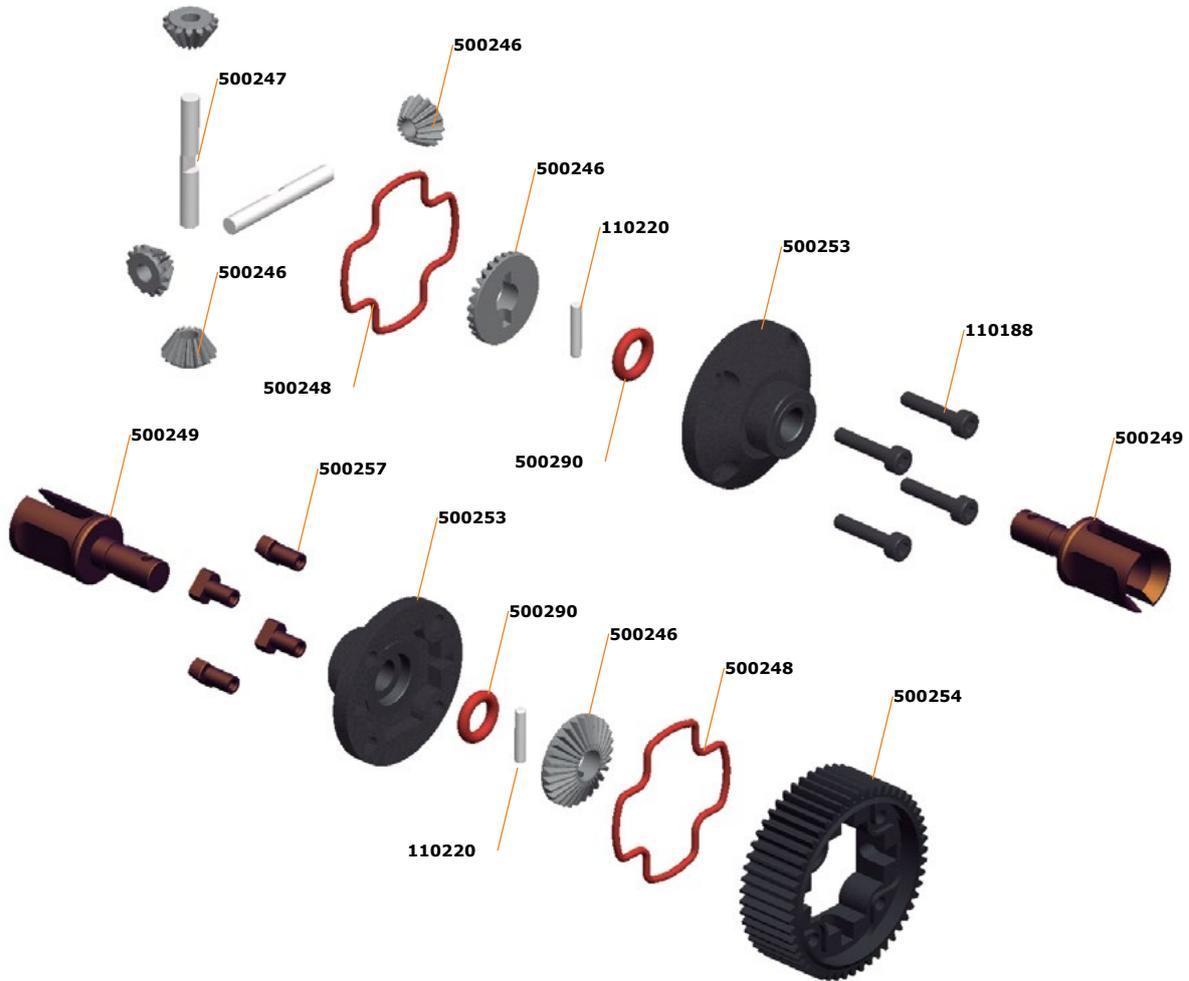
# FRONT ASSEMBLY I



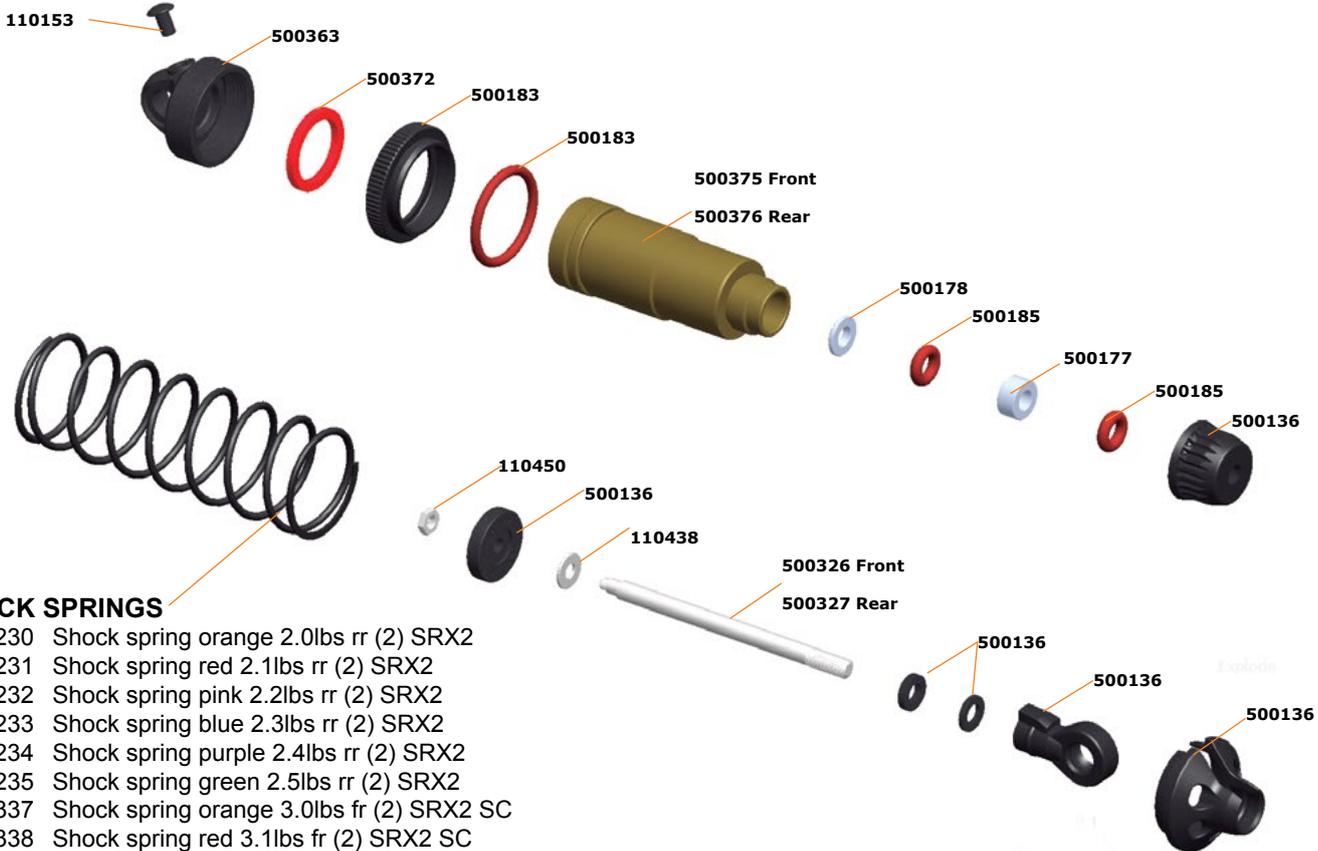
# FRONT ASSEMBLY II



# GEAR-DIFF EXPLODED VIEW



# SHOCKS ASSEMBLY



## SHOCK SPRINGS

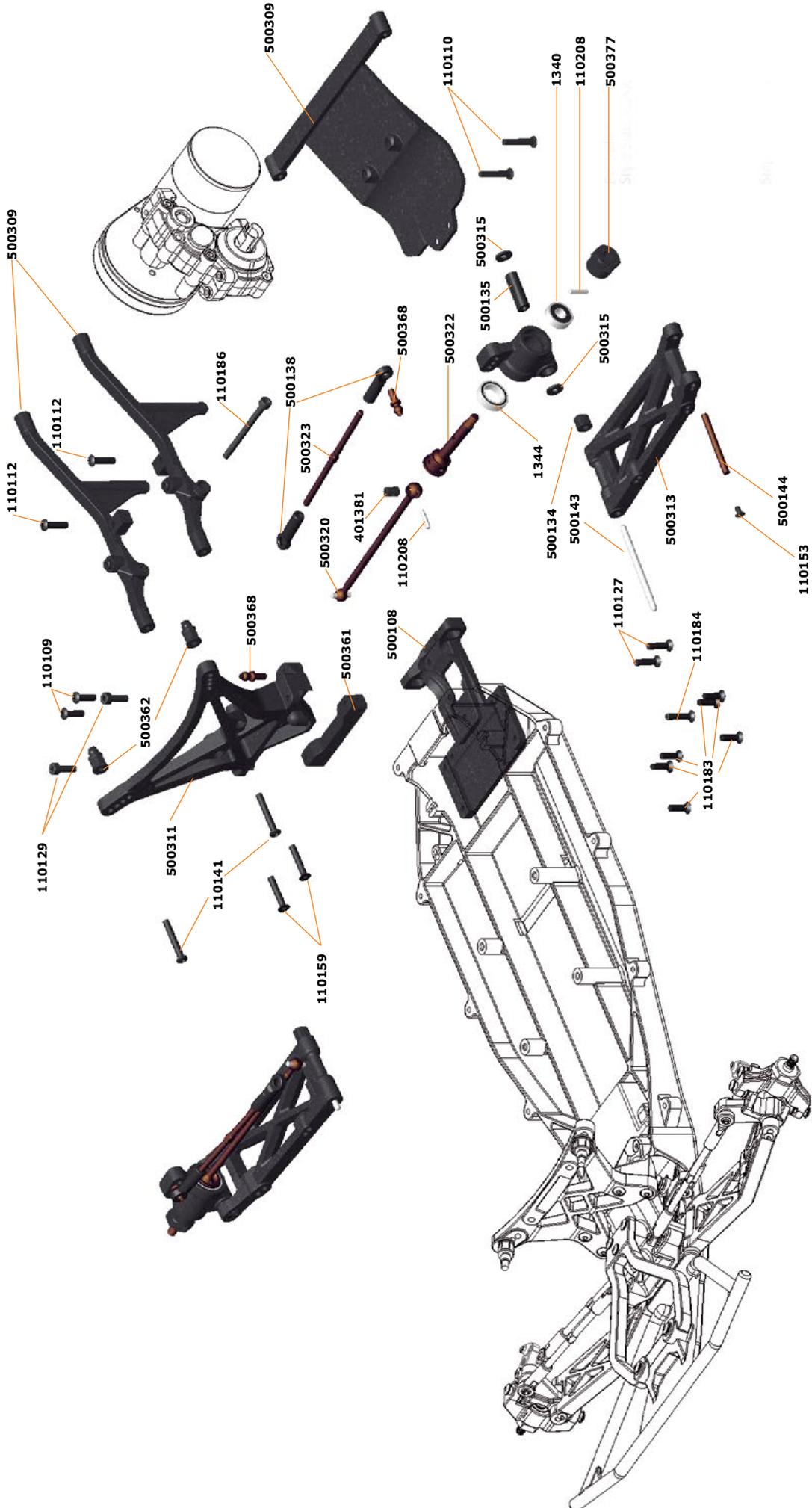
- 500230 Shock spring orange 2.0lbs rr (2) SRX2
- 500231 Shock spring red 2.1lbs rr (2) SRX2
- 500232 Shock spring pink 2.2lbs rr (2) SRX2
- 500233 Shock spring blue 2.3lbs rr (2) SRX2
- 500234 Shock spring purple 2.4lbs rr (2) SRX2
- 500235 Shock spring green 2.5lbs rr (2) SRX2
- 500337 Shock spring orange 3.0lbs fr (2) SRX2 SC
- 500338 Shock spring red 3.1lbs fr (2) SRX2 SC
- 500339 Shock spring pink 3.2lbs fr (2) SRX2 SC
- 500340 Shock spring blue 3.3lbs fr (2) SRX2 SC
- 500341 Shock spring purple 3.4lbs fr (2) SRX2 SC
- 500342 Shock spring green 3.5lbs fr (2) SRX2 SC



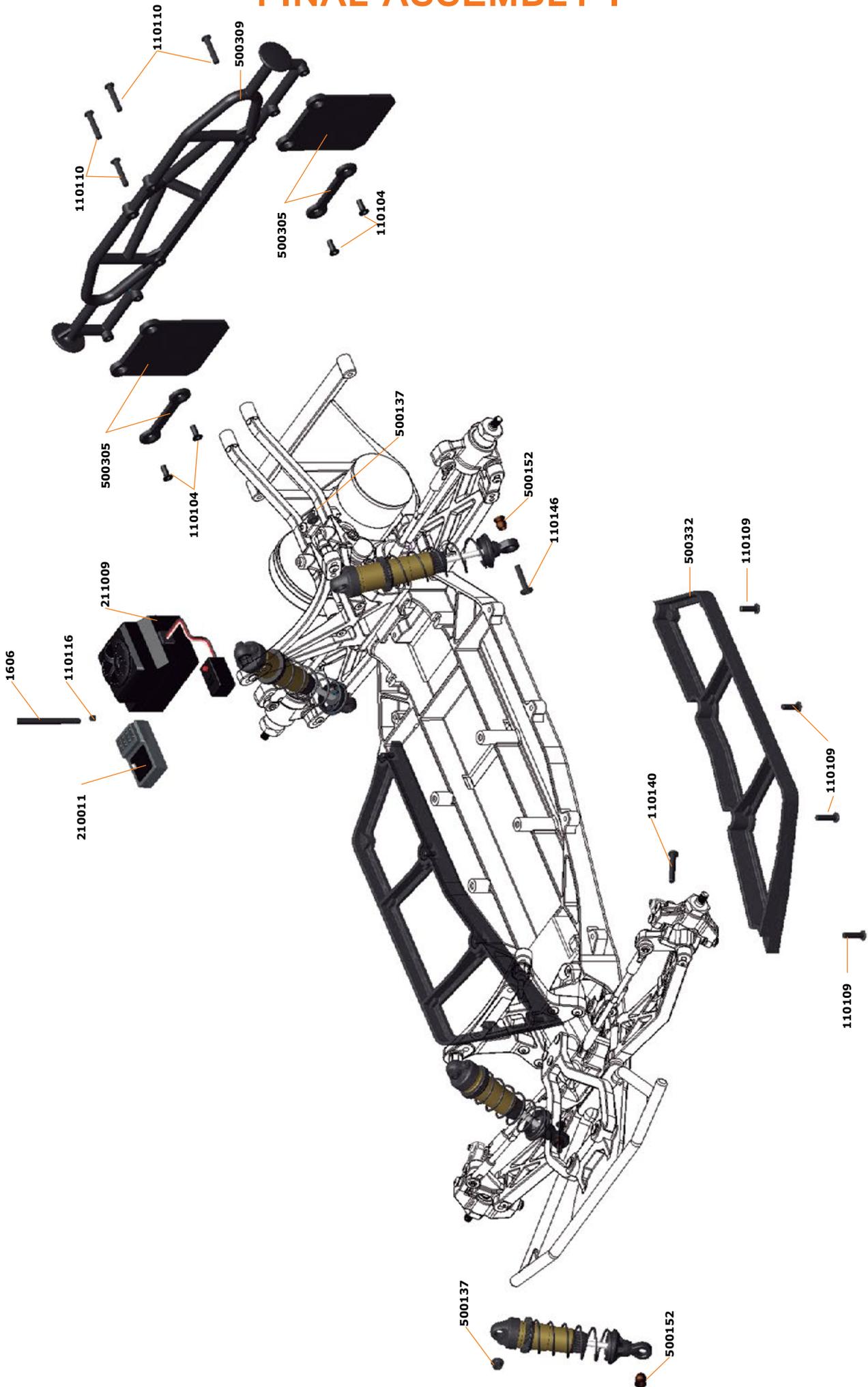
# TRANSMISSION ASSEMBLY



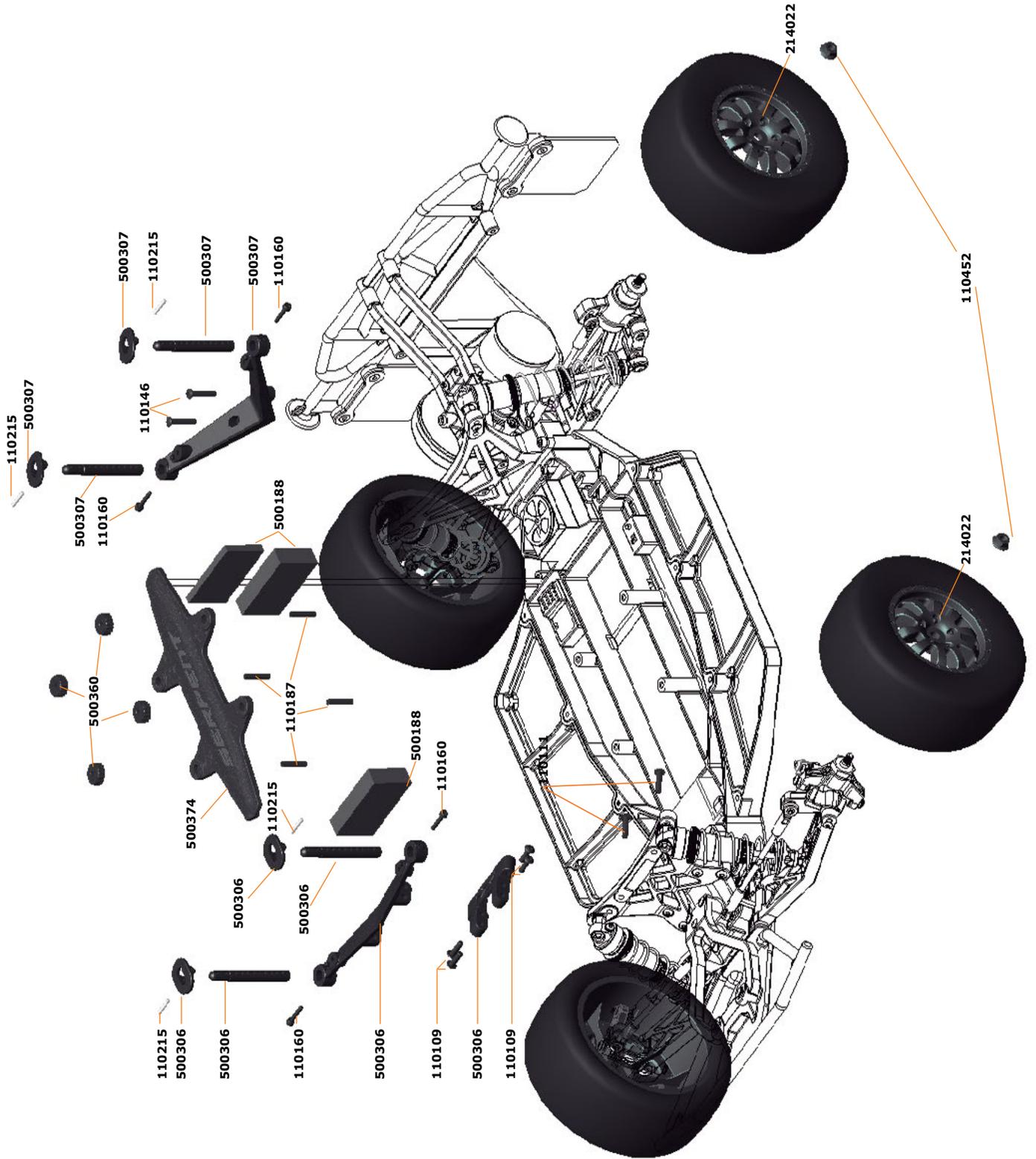
# REAR ASSEMBLY



# FINAL ASSEMBLY I



# FINAL ASSEMBLY II



# SRX2 RTR SC



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