



1/10 scale Ready To Race electro Buggy 2WD

INSTRUCTION MANUAL & REFERENCE GUIDE







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 is 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 transmisison and motorparts can become very hot. So wear protective clothing both as driver and helper and be carefull 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 advice to use good quality NimH or Lipo rechargebale 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 for more info.

Quick-start

Page

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 <u>before</u> to switch on the car and only turn off the transmitter <u>after</u> 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 prepainted and pre-cut bodyshell

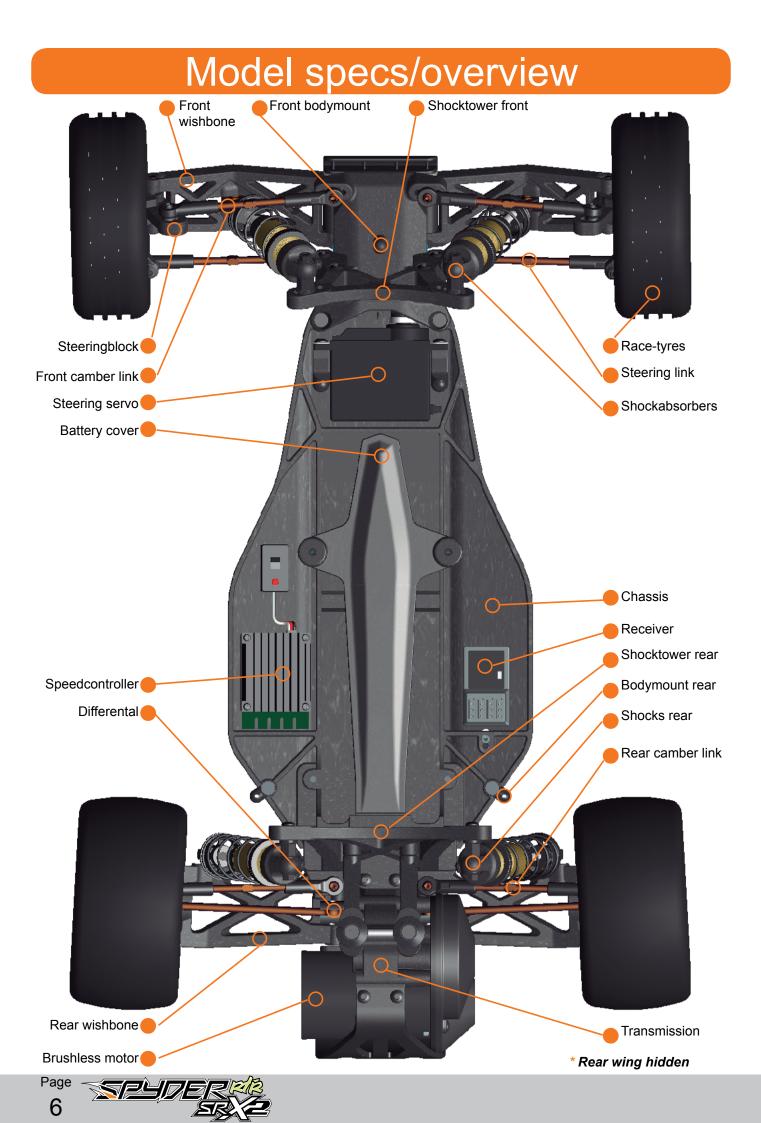


Recommended materials

- 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

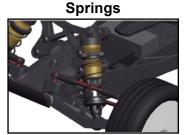


- Side cutter and nose plier
- Cleaning brush and towel
- Safety glasses and gloves
- Cleaning gum
- Thin bearing oil
- Transmission grease
- CA glue
- Degreaser



Basic tunning

- 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. <u>Thinner</u> oil will be softer, with slower response, <u>thicker</u> 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 decreases 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 stabile car, with less steering.
- **Toe adjustment:** Rear: adjusted with suspension blocks (optional). <u>More</u> toe-in will create more traction, more stability, but less speed. <u>Less</u> toe in will create a less stabile car, with <u>less traction</u> 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 stabile and react slower, a shorter car will be more nervous and more direct.
- **Gear-ratio:** spur and pinion: for correct gearmesh keep a pieces 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.



Shock angle



Front Toe-out



Rear Toe-in



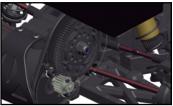
Front camber



Rear camber



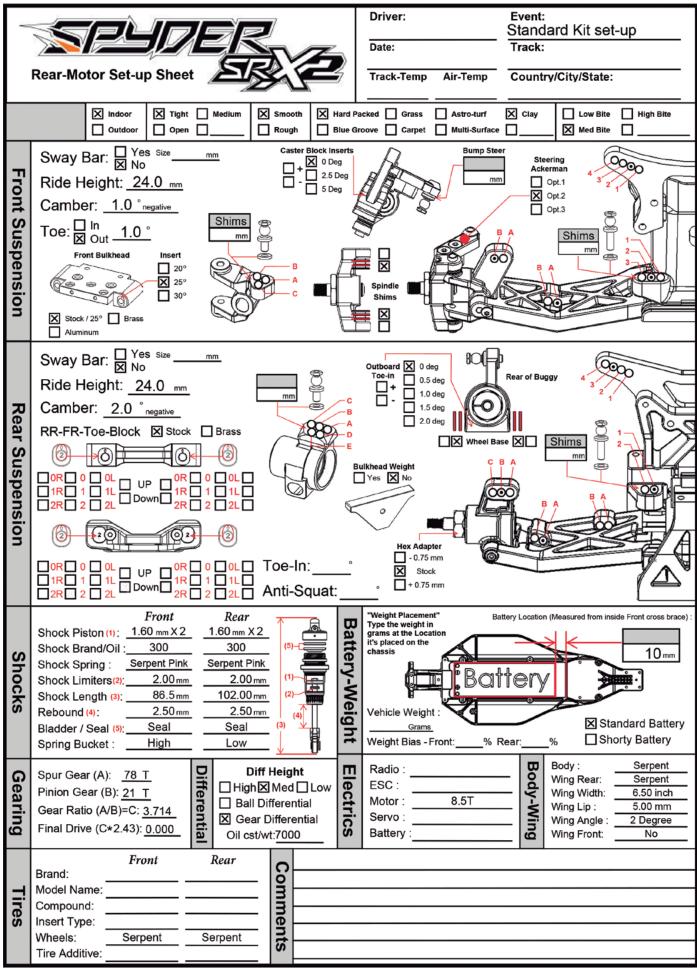
Gear-ratio



Ride Height







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Serpent V2.1

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-axles and driveshafts

Remove the wheels, and check the wheel-axles, 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 functionning 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** 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



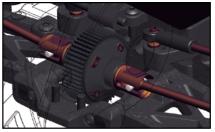
Tyres



Wheel-axles and driveshafts



Differentials







Partslist and Optionals list

Dent me	Description	5000
Part no	Description	50022
500002	Serpent Spyder Buggy SXR-2 RM 2wd 1/10 RTR	50023
		50023
DECALS		50023
1886	Decal serpent black/white 1/10 (2)	50023
1888	Decal serpent chrome 1/10 (2)	5002
500102	Decal sheet Spyder black/white (2)	50023
		5003
RADIO IN	ISTALLATION / BATTERY	5003
500188	Battery case inserts foam (6) SRX2 RM	5003
500360	Battery plate nut nylon (4) SRX2	5003
500373	Batteryplate nylon SRX2 RM RTR	5003
000010		5003
Ontional	_	5005
Optional		
500129	Speedcontroler mount SRX2 RM	FRO
500141	Batteryplate carbon SRX2 RM	5001 ⁻
500142	Battery plate foam SRX2 RM	5001
500165	Battery plate nut (4) SRX2	5001
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5001 [°]
	AVER AND STEERING	5001 ²
500117	Steeringarms L+R (3) SRX2	5001
500118	Servomount (2) SRX2	5001 ⁻
500119	Servomount spacers (8) SRX2	5001
500120	Steeringlever (3) SRX2	50012
500121	Steeringrack (3) SRX2	50012
500369	Steeringrack bushing (8) SRX2 RTR	50012
000000		5001
0	_	
Optional		50013
500197	Servomount alu (2) SRX2	50013
500236	Steeringrack alu (3) SRX2	50014
500287	Steering arm nr 1 brass L+R	50014
500288	Steering arm nr 2 brass L+R	5001
500289	Steering arm nr 3 brass L+R	50010
000200		50010
SUCCK		
	ABSORBERS	50030
500136	Shock parts frame (44) SRX2	50030
500137	Nut nylon M3 flanged (8)	50036
500152	Pivotball shock (4) SRX2	5003
500177	Shock cartridge spacer (4) SRX2	5003
500178	Shock cartridge spacer stepped (4) SRX2	5003
500181	Shock shaft fr (2) SRX2	0000
		0
500182	Shock shaft rr (2) SRX2	Optic
500183	Shock adjust nut / oring (2) SRX2	50010
500184	Shock bleeding oring (4) SRX2	5001
500185	Shock oring bottom (4) SRX2	41118
500362	Shock mount (4) SRX2 RM RTR	50013
500363	Shock top (2) SRX2 RTR	50014
500370	Shock body fr (2) SRX2 RTR	50014
500370	Shock body if (2) SRX2 RTR Shock body rr (2) SRX2 RTR	50014
500372	Shock top gasket (4) SRX2 RTR	50014
		5001
OPTION	ALS	5001
500174	Shock body fr (2) SRX2	50019
500175	Shock body rr (2) SRX2	50019
500176	Shock top (2) SRX2	50019
500170	Shock top gasket (4) SRX2	5001
500180	Shock membrame (4) SRX2	50020
500199	Shock top bushing delrin (4) SRX2	50020
500201	Shock shaft fr TiN coated (2) SRX2	50020
500202	Shock shaft rr TiN coated (2) SRX2	50020
500238	Shock piston conical 2 holes (4) SRX2	5002
500239	Shock piston conical 3 holes (4) SRX2	5002
500239	Shock piston conical 4 holes (4) SRX2	5002
500240	Chock piston conical 4 noiss (4) SRAZ	
0000000		50024
SPRINGS		5002
500222	Shock spring silver 2.5lbs fr (2) SRX2	5002
500223	Shock spring black 2.65 fr (2) SRX2	50020
500224	Shock spring orange 2.87lbs fr (2) SRX2	50020
500225	Shock spring red 3.0lbs fr (2) SRX2	50034
500226	Shock spring pink 3.15lbs fr (2) SRX2	50034
		5005
500227	Shock spring blue 3.4lbs fr (2) SRX2	
500228	Shock spring purple 3.5lbs fr (2) SRX2	
-		

500229	Shock spring green 3.7lbs fr (2) SRX2
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
500354	Shock spring orange 1,8lbs astro (2) SRX2
500355	Shock spring red 1,9lbs astro (2) SRX2
500356	Shock spring pink 2,0lbs astro (2) SRX2
500357	Shock spring blue 2,1lbs astro (2) SRX2
500358	Shock spring purple 2,2lbs astro (2) SRX2
500359	Shock spring green 2,3lbs astro (2) SRX2

NT SECTION

LKOWI 2	ECTION
500110	Front bulkhead-insert SRX2
500111	Front bulkhead top SRX2
500113	Wishbone fr L+R SRX2
500115	C-hub L+R SRX2
500116	Steeringblock L+R SRX2
500117	Steeringarms L+R (3) SRX2
500118	Servomount (2) SRX2
500119	Servomount spacers (8) SRX2
500120	Steeringlever (3) SRX2
500121	Steeringrack (3) SRX2
500128	Front bumper 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
500155	Wheel axle fr (2) SRX2
500162	Track rod M3x50 (2) SRX2
500163	Hinge pin brace 25 deg fr SRX2
500363	Shock top (2) SRX2 RTR
500364	Shock tower fr SRX2 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

ionals

Optionals	
500103	1/10 buggy rim fr 2wd white (2)
500104	1/10 buggy rim fr 2wd yellow (2)
411187	Pivotball with shaft (2)
500139	Shocktower fr SRX2
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
500193	Front wing set 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
500237	C-hub L+R alu SRX2
500241	Front wing 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
500346	Antirollbar wire adaptors (2+2) SRX2
500348	Antirollbar mount FR SRX2

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SPYDE.

SR

MIDDLE SECTION	
500107	Chassis SRX2 RM
500130	Bodymount (2) SRX2 RM
500188	Battery case inserts foam (6) SRX2 RM
500373	Batteryplate nylon SRX2 RM RTR
500360	Battery plate nut nylon (4) SRX2
Optionals	
500129	Speedcontroler mount SRX2 RM
500141	Batteryplate carbon SRX2 RM
500142	Battery plate foam SRX2 RM
500165	Battery plate nut (4) SRX2
REAR SE	-
411553	Wheel hex 411-S (2)
500108	Skidplate SRX2 RM
500112	Wishbone rr L+R SRX2 RM
500114	Upright L+R SRX2
500126	Wingmount-set SRX2 RM
500134	Rear suspension insert (24) SRX2
500135	Upright inserts (10) SRX2
500143	Pivot pin rr inner (2) SRX2 RM
500156	Wheel axle rr (2) SRX2
500161	Wing brace alu SRX2
500162	Track rod M3x50 (2) SRX2
500189	Rear wing 6.5" SRX2
500190	Driveshaft rr (2) SRX2
500191	Driveshaft rr set (2) SRX2
500361	Suspension bracket rr fr SRX2 RM RTR
500362	Shock mount (4) SRX2 RM RTR
500365	Shock tower rr SRX2 RM RTR

Shock tower rr SRX2 RM RTR 500365 500368 Pivotball with shaft high (5) SRX2 RTR

Optionals

Optionals	
401387	Wheelhexagon (2)
500105	1/10 buggy rim rr white (2)
500106	1/10 buggy rim rr yellow (2)
500109	Suspension bracket rr fr SRX2 RM
500131	Rear bulkhead SRX2 RM
500140	Shocktower rr 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
500196	Upright L+R alu SRX2
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
500211	Wheelhexagon +0.75mm offset (2)
500212	Wheelhexagon -0.75mm offset (2)
500244	Rear bulkhead weight SRX2
500245	Suspension bracket rr fr brass SRX2 RM
500251	Rear wing 6.0" SRX2
500252	Rear wing 7.0" SRX2
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
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
500125	Motorguard rear 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

Geardiff o-ring (4) SRX2 Page ∍∕ĭ 11

500249 Geardiff outdrive (2) SRX2 Geardiff cap L+R SRX2 Geardiff housing 51T SRX2 Geardiff nut (4) SRX2 500253 500254 500257 500343 Motor plate SRX2 RM standard Idler gear 27T SRX2 steel Top-shaft set 21T stock SRX2 500344 500352 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)

BODY AND WING

170330	Body Spyder 2wd RM 1/10 orange
500189	Rear wing 6.5" SRX2

Optionals

Optionals	
170329	Body Spyder 2wd RM 1/10 semipainted
170331	Body Spyder 2wd RM 1/10 blue
170332	Body Spyder 2wd RM 1/10 red
170333	Body Spyder 2wd RM 1/10 green
500101	Body Spyder 2wd RM 1/10
500241	Front wing SRX2
500251	Rear wing 6.0" SRX2
500252	Rear wing 7.0" SRX2

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

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 110104	Screw allen countersunk m4x16 (10)	
110104	Screw allen countersunk m3x8 (10) 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 110110	Screw allen roundhead m3x10 (10) Screw allen roundhead m3x16 (10)	
110110	Screw allen roundhead m3x16 (10)	
110112	Screw allen roundhead m3x12 (10)	
110113	Screw allen roundhead m4x8 (10)	
110114	Setscrew allen m3x8 (10)	
110115	Setscrew allen m3x4 (10) Setscrew allen m3x3 (10)	
110116 110117	Setscrew allen m3x12 (10)	
110118	Setscrew allen m4x4 (10)	
110119	Setscrew allen m4x6 (10)	
110120	Setscrew allen m4x10 (10)	
110121 110122	Setscrew allen m5x6 (10) Screw allen countersunk m3x6 (10)	
110122	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 110128	Screw allen countersunk m3x12 (10) Screw allen roundhead m3x5 (10)	
110120	Screw allen cilinderhead m3x3 (10)	
110130	Screw allen roundhead m2.5x6 (10)	
110131	Screw allen roundhead m2.5x10 (10)	
110132	Screw allen countersunk m3x16 (10)	
110133 110134	Screw philipshead countersunk 2.5x8 wide (10) 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) Screw allen countersunk M3x40 (10)	
110139 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 110145	Screw allen roundhead M3x18 (10) Screw allen roundhead flanged M3x12 (10)	
110145	Screw allen roundhead flanged M3x12 (10)	
110147	Screw ph roundhead M2.5x5 (10)	
110148	Setscrew allen M5x4 (10)	
110149	Screw allen countersink M2x10 (10)	
110150 110151	Screw M6x12 nylon black (2) 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 110157	Screw allen countersunk M2.2x6 (10) 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 110163	Setscrew allen M3x2.5 (10) 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) Screw allen countersunk M4x6 (10) 110174 110175 Screw allen cilinderhead M3x40 (10) Screw allen cilinderhead M3x18 (10) 110176 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) Screw allen cilinderhead M3x35 (10) 110186 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) Pin 2x12 (10) 110215 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) Shim 3X6X3 (10) 110417 110418 Shim 4X8X0.1 (10) 110419 Shim 4X9.5X1 (10) 110420 Shim 4X9.5X2(10) 110421 Shim 4X9.5X4(10)

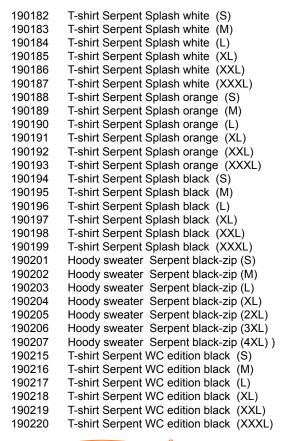
110422	Shim 4X10X0.3 (10)
110423	Shim 5X8X0.1 (10)
110424	Shim 5X8X0.3 (10)
110425	Shim 5X10X0.3 (10)
110426	Shim 5X10X0.5 (10)
110428	Shim 6.5X8X0.25 (10)
110429	Shim 6X11.75X0.2 (10)
110431	Shim 8X11X0.1 (10)
110432	Shim 8X11X0.2 (10)
110433	Shim 12X15X0.25 (10)
110434	Shim 12X18X0.3 (10)
110435	Shim 13X16X0.2 (10)
110436	Shim 3x5x3 (10)
110437	Nut M2.5 (10)
110438	Shim 2.5x6x0.5 (10)
110439	Shim 3x7.5x1 (10)
110440	Shim 2.5x5x0.4 (10)
110441	Nut nylock M3 flanged (10)
110442	Shim 4x8x0.6 (10)
110443	Shim 5x15x0.2 (10)
110444	Nut M4 nylon (10)
110445	Shim 4x10x0.2 (10)
110446	Shim 5x15x0.2 (10)
110447	Shim 3x7x7 (10)
110448	Shim 3x6x6 (10)
110449	Shim 3x6x1 (10)
110450	Nut M2 (10)
110451	Nylock nut M4 flanged alu (10)
110452	Nut M4 flanged knurled (10)
110453	Shim 3x7x3 (10)
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

FRCHANDISING

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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)	
190176	Winter jacket Serpent black-orange hooded (3XL)	
190208	Winter jacket Serpent black-orange hooded (4XL)	
190156	Polo shirt Serpent black (S)	
190157	Polo shirt Serpent black (M)	
190158	Polo shirt Serpent black (L)	
190159	Polo shirt Serpent black (XL)	
190160	Polo shirt Serpent black (XXL)	
190161	Polo shirt Serpent black (XXXL)	





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
210008 210009 210010	Servo gear set for #210004 Transmitter set DTS-2 with display 2.4 Ghz Transmitter DTS-2 with display 2.4Ghz

Speed controller, motor, parts

211004	Motor brushless DL10 9T-3600kv
211008	Speedo DX-10 WP 45A

211011 Program card DX series

Tyres rubber offroad and wheels

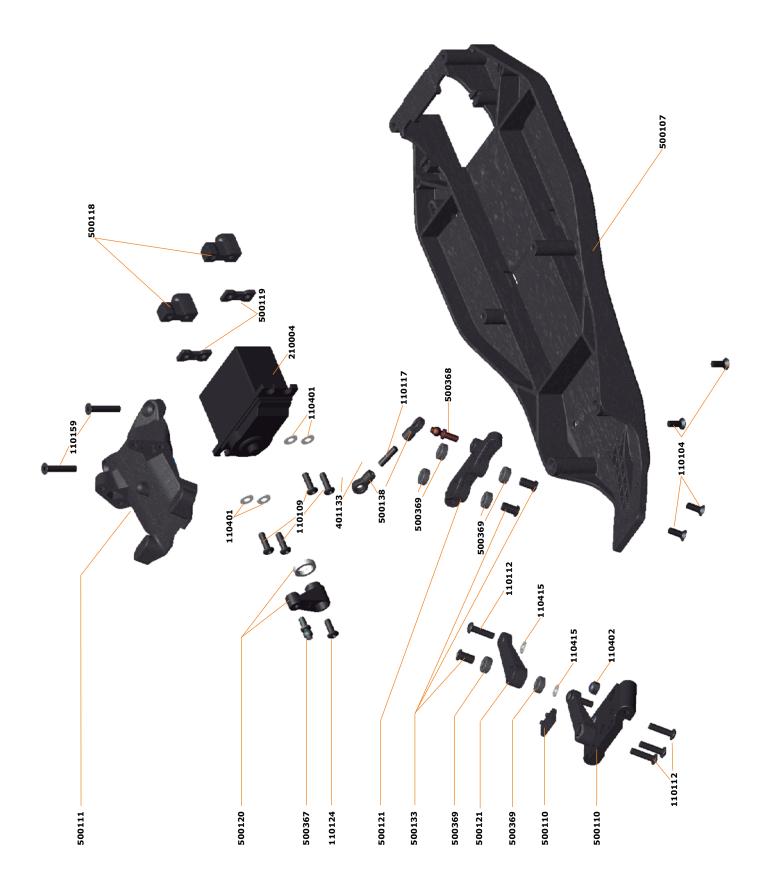
214013	1/10 buggy rim fr 2wd white (2)	
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- 214014 1/10 buggy rim fr 2wd yellow (2)
- 214015 1/10 buggy rim rr white (2)
- 214016 1/10 buggy rim rr yellow (2)
- 214017 1/10 buggy Tyre mounted on white rim 2wd front (2)
- 214018 1/10 buggy Tyre mounted on white rim 4wd (2)

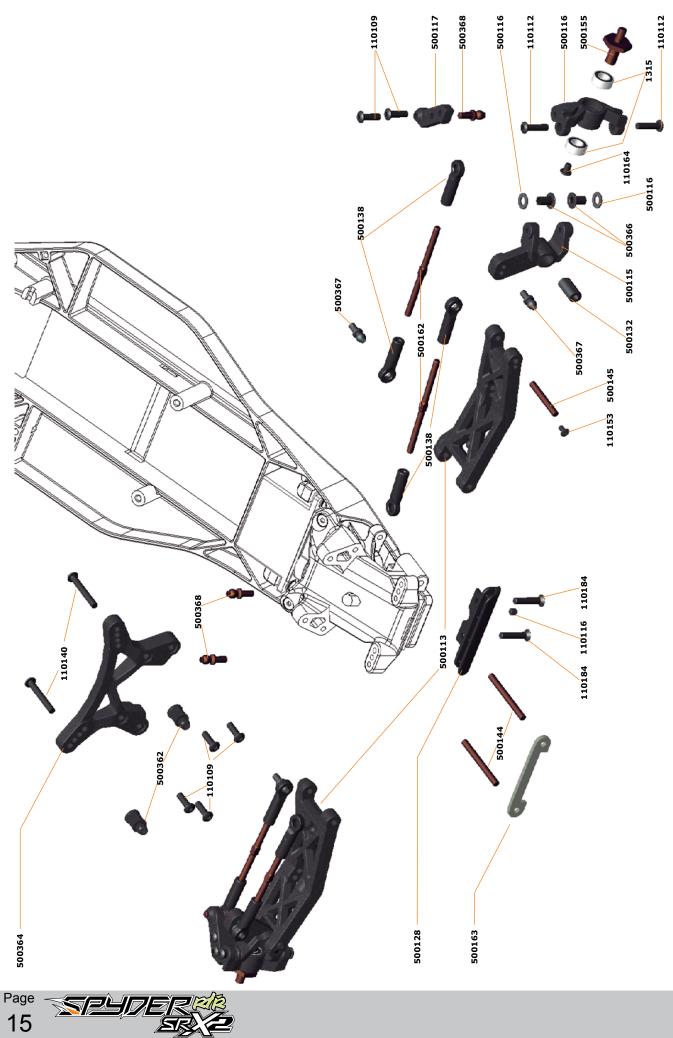
Additions / notes

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FRONT ASSEMBLY I

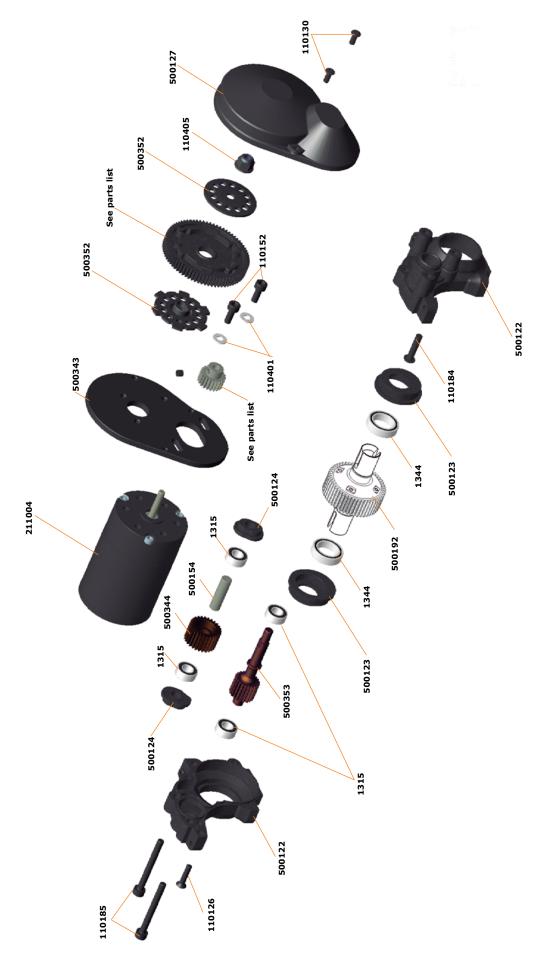


FRONT ASSEMBLY II



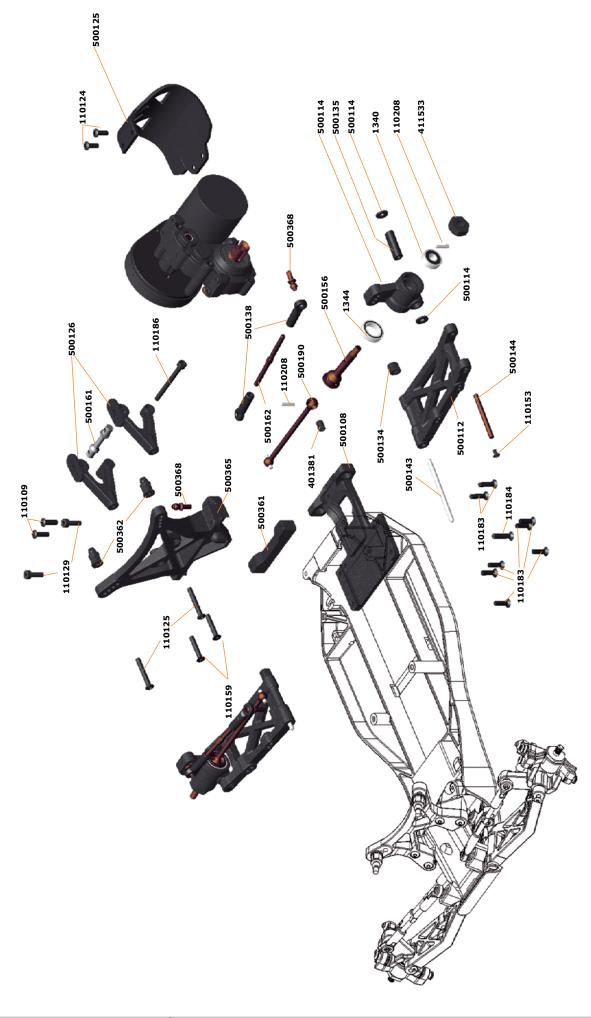


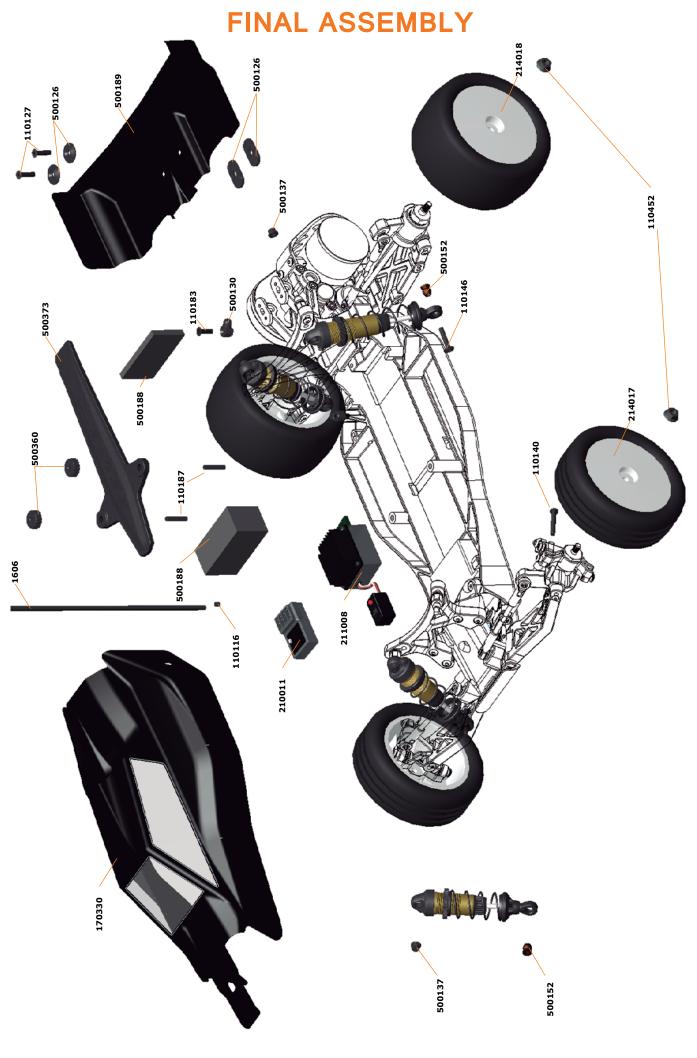
TRANSMISSION ASSEMBLY



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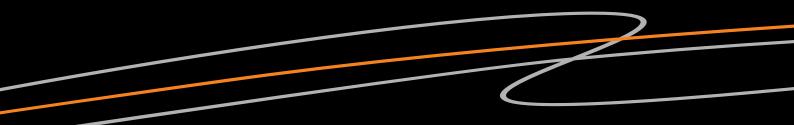
REAR ASSEMBLY





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