

1/10 scale electric touring car

Instruction Manual



INTRODUCTION

Thank you very much for selecting this Serpent rc car and thus become a member of the ever growing worldwide Serpent racing family. Serpent started in 1980 and has been growing its product-line and fan -base ever since.

The Serpent Project 4X EVO is a state of the art 1/10 scale 4wd touringcar which will give you the true Serpent racing experience. The assembly manual will guide you through all the steps to complete the car, so you can hit the track with a good base-set-up soonest. The Serpent design department succeeded to create a superbly performing car combined with eas of assembly and maintenance. The high quality standards of all parts and hardware will make racing your Serpent car a very rewarding activity!

Through our team, website and social media we will keep you up-to-date on all developments of the Serpent cars. We hope to meet you on the track and through our various media! Enjoy the drive!

Team Serpent Multiple World Champions

INSTRUCTIONS

Serpent's long tradition of excellence extends to the instruction manuals, and this instruction manual is no exception. The easy-to-follow layout is richly illustrated with 3D-rendered full-color images to make your building experience quick and easy. Following the instructions will result in a well-built, high-performance race-car that will soon be able to unleash its full potential at the racetrack. The kit includes bags, with bagnumbers, which refer to the same step in the manual. Open only the indicated bag(s) per step and finish that part of the assembly. Remaining parts will be needed lateron in the assembly process.

PLASTIC PARTS

The Serpent moulded parts are very durable and hard. When assembling longer screws in new composite parts, make sure to use new hex bits in your (power) tools. Pre-threading also helps to avoid screw damage.

SETUP

In certain assembly steps you need to make basic adjustments, which will give you a good initial setup for your Serpent Project 4X EVO. Fine-tuning the initial setup is an essential part of building a high-performance racecar like your Serpent Project 4X EVO.

EXPLODED VIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent Project 4X EVO are presented in the Reference Guide section in the back of this manual. The exploded views show all the parts of a particular assembly step along with the Serpent part number and hotlink to the Serpent website. Partnumbers in orange indicates that this part is an optional. Optionals part names and numbers are showed below.

CUSTOMER SERVICE

Serpent has made a strong effort to make this manual as complete and clear as possible. Additional info may be published in our website: www.serpent.com or you may ask your dealer or the Serpent distributor for advice, or email Serpent direct: info@serpent.com. The Serpent Facebook, Twitter and Youtube pages give additional means of support and communications.

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Read and take note of the 'Read this First section' before proceeding to assemble the car-kit. This car-kit is intended for persons aged 16 or older.

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 80 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, fuel 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 motor, engine and exhaust pipe system or speedo during and immediately after use, as these parts may be very hot. We advise to use protective hand cloves.

- 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. Also check that the transmitter and receiver frequencies correspond and are not used by any other racer at the same time. 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.

- Empty the fuel tank (depending on model) if needed and disconnect the receiver battery.
- 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.

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How to use the manual



LINES DESCRIPTION

Each step contains a variety of numbers, lines, and symbols. The numbers represent the order in which the parts should be assembled. The lines are described below.



ICONS DESCRIPTION

Each step contains a variety of symbols described below.



Read and check very well.



Apply a small amount of cyano glue. Wear protection for eyes and hands.



Detail view to explain assembly or order of parts better.



Default set-up: This symbol indicates the default setup.



Grease: apply a small amount of grease to the parts shown.





Silicone grease: apply a small amount of grease to the parts shown.



Left and right parts should be assembled in the same way.



Thread lock: apply a small amount on the parts shown. Before apply the threadlock, make sure to degrease the parts very well, as otherwise the threadlock will not work.



Silicone oil: use the indicated silicone oil for the shocks and differentials.



Parts or items not included in the kit.

Optional part, not standard in the kit.

REAR DIFF ASSEMBLY

STEP 1















STEP 2

1- Fit the o ring before filling the diff with silicone oil.

2-Add just enough oil to cover the large gear before assembling the small satellite gears and cross pins. Use the silicone oil supplied in the kit. For the correct cst value please check the default setupsheet.





SHOCKS ASSEMBLY









STEP 9 STEP 10

using the silicone oil supplied in the kit. For the correct cst value please check the default setupsheet.

2- Wait all air bubbles have escaped.

1- Fill up with sillicone oil fully 91-Loosen the balljoint anti clockwise, in order to open the small bleeder hole 9 in the threaded shaft and push the piston into the housing and screw the cap assembly gently onto the shock housing clockwise, do NOT overtighten.

> 2-Bleeding: Turn the shock upside down and push the shockrod slowly fully inside, so the excess oil can escape through the small bleeder hole in the threaded shaft. Wipe away the excess oil. Keep to let excessive oil come out

3-With shockrod fully in, close the shock and balljoint fully.





ROLL DAMPER ASSEMBLY





M2x6





2- Extend the shockrod fully.

3- Move the shockrod slowly up and down to let all air bubbles escape.









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CENTRAL AND REAR I ASSEMBLY





















 M4x6
 2.5x18













M3x8







O M3x5

STEP 28



0 M4x6

2.5x18

16



M3x5

M3x12

5x7x0.1

M3x10







M3x8

3x6x2.5 Flanged



TRANSMISSION ASSEMBLY



STEP 35



M2.5x6

2x10

10x15x4































































STEP 54 STEP 55 PULLROD **REAR WISHBONE** 21 20.5 19.5 19 **REAR SUSPENSION** 20 (L=R) L=R LENGTH (mm) **DEFAULT SPACERS INSERTS CHART** Included are 5 lenghts of composite **OUTSIDE** DEF: SETUR pullrods. If ride height can not be L=R **RIGHT LEFT** adjusted enough using the excentric holder for the heavedamper, use different DEF. SETU 2mm pullrod length. For more ride height, use 1mm shorter pullrod. 3 4mm INSIDE **M**3x4 RIGHT LEFT Make sure to use same length Left and DEF. SETUP Right side. (2) M2x4 3x33 4 3x33 **M2x4** MARIN 0

© M2x4 M3x4






































STEP 66



() M3x6





STEP 67



















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120007 Spur-gear Super-True 64P / 100T 120008 Spur-gear Super-True 64P / 104T 120009 Spur-gear Super-True 64P / 108T 120016 Spur-gear Super-True 48P / 72T 120017 Spur-gear Super-True 48P / 75T 120018 Spur-gear Super-True 48P / 78T 120019 Spur-gear Super-True 48P/81T 120020 Spur-gear Super-True 48P/84T 120021 Spur-gear Super-True 48P/87T

SHOCK AND ROLL DAMPER EXPLODED NIEW





401766 Shock spring blue C=7.8 4X EVO (2)

401761 Shock spring white C=4.6 4X EVO (2) 401763 Shock spring orange C=5.6 4X EVO (2) 401764 Shock spring pink C=6.3 4X EVO (2)

OPT

REAR I EXPLODED VIEW





FRONT I EXPLODED NIEW







TRANSMISSION EXPLODED VIEW



401600 Solid axle alu S411 mono for blades 401780 RRS holder low alu

FRONT II EXPLODED NIEW





401734 Wheelhub fr/rr I+r hard 4X

401736 Wishbone upper fr/rr hard 4X (2)

REAR II EXPLODED VIEW







FINAL EXPLODED VIEW





401413 Battery mount (4) 804293 Body support washers med + high (5+5)

TEAM SERPENT NETWORK

PROJECT 4X SPARE PARTS www.serpent.com/400031/spares/



PROJECT 4X OPTIONALS PARTS www.serpent.com/400031/Optionals/







SERPENT TOOLS www.serpent.com/product/Tools/



SERPENT MERCHANDISING www.serpent.com/product/Merchandising/



SERPENT WEBSITE AND BLOG

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SERPENT SOCIAL MEDIA

www.facebook.com/SerpentMRC

www.youtube.com/user/SerpentMRC



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