

Serpent 600039

Serpent Cobra Truggy-e RTR 1/8 Scale Electric Off-Road Truggy Instruction Manual

1. INTRODUCTION

Welcome to the world of high-performance remote-controlled vehicles with your new Serpent Cobra Truggy-e RTR. This 1/8 scale electric off-road truggy is designed for durability and speed, offering an exceptional ready-to-race experience. This manual provides essential information for the proper setup, operation, and maintenance of your truggy to ensure optimal performance and longevity.



Image 1.1: The Serpent Cobra Truggy-e RTR and its 2.4 GHz transmitter.

2. SAFETY INFORMATION

Operating remote-controlled vehicles requires adherence to safety guidelines to prevent injury and damage. Please read and understand all safety instructions before operating your Serpent Cobra Truggy-e RTR.

- **Battery Safety:** Use only recommended batteries and chargers. Do not overcharge or discharge batteries. Always disconnect batteries when not in use and store them in a safe, fire-resistant location.
- **Electrical Components:** Keep all electrical components dry. Water exposure can cause short circuits and damage. Ensure all connections are secure before operation.
- **Moving Parts:** Keep fingers, hair, and loose clothing away from rotating parts such as wheels, gears, and drive shafts during operation.
- **Operating Environment:** Operate the truggy in open areas, away from people, pets, and obstacles. Avoid public roads, crowded spaces, and areas with potential hazards.
- **Adult Supervision:** This product is recommended for ages 18 and up. Adult supervision is advised for all users.

- **Heat:** The motor and speed controller can become very hot during use. Avoid touching these components immediately after operation.

3. PACKAGE CONTENTS

Your Serpent Cobra Truggy-e RTR package includes the following components:

- Fully expert pre-assembled chassis with integrated electronics
- DragonRC 2.4 GHz transmitter
- DragonRC waterproof 150A speed controller
- DragonRC longbody 2000kV brushless motor
- 16kg metal-gear DragonRC-Savox servo
- Prepainted low-profile truggy body
- Large composite rear wing
- Premounted truggy tires

Note: Battery and charger are excluded and must be purchased separately.

4. COMPONENTS OVERVIEW

Understanding the main components of your truggy is crucial for proper setup and maintenance. Refer to the diagram below for a visual guide to the key parts.

COBRA RTR E

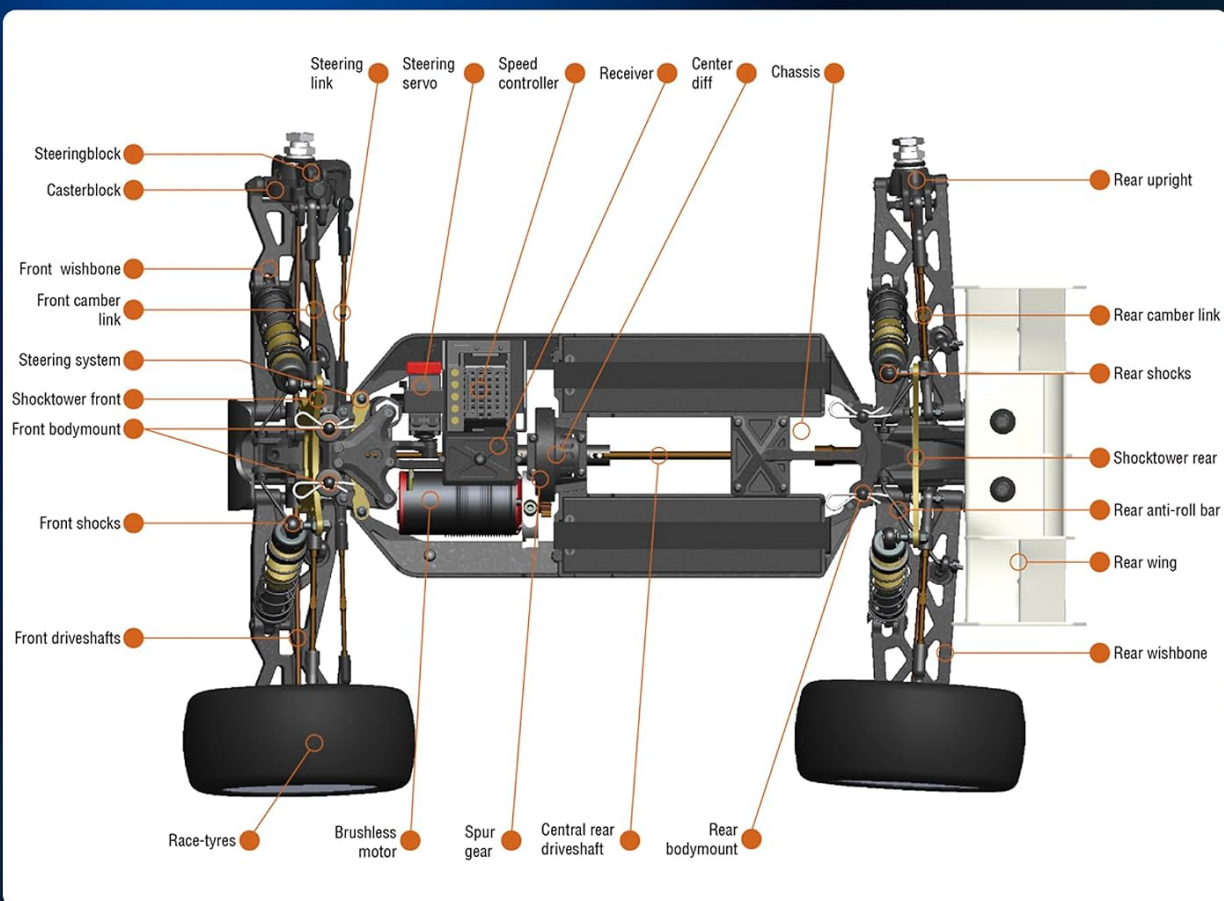


Image 4.1: Detailed diagram illustrating the various components of the Serpent Cobra Truggy-e RTR.

5. SETUP

Follow these steps to prepare your Serpent Cobra Truggy-e RTR for its first operation.

5.1. Battery Installation

1. Ensure the truggy and transmitter are powered off.
2. Carefully remove the truggy body clips and lift the body to access the chassis.
3. Place your charged LiPo battery (4-6S recommended) into the designated battery trays on the chassis. Secure the batteries using the provided straps.
4. Connect the battery to the speed controller (ESC) using the appropriate connectors. Ensure correct polarity.

5.2. Transmitter Setup

1. Install 4 AA batteries (not included) into the DragonRC 2.4 GHz transmitter.

2. Power on the transmitter. The indicator light should illuminate.
3. Power on the truggy's ESC. The transmitter and receiver should automatically bind. If not, refer to the transmitter's specific binding instructions.

5.3. Pre-Run Checks

- Verify that the steering operates correctly: turning the steering wheel on the transmitter should move the front wheels accordingly. Adjust steering trim if necessary.
- Check throttle response: gently apply throttle to ensure the motor responds smoothly.
- Inspect all screws and fasteners for tightness.
- Ensure tires are securely mounted and inflated to the correct pressure.
- Confirm that the truggy body is securely fastened with all body clips.



Image 5.1: Key electronic components including the transmitter, receiver, speed controller, motor, and servo.

6. OPERATING

Once setup is complete, you are ready to operate your Serpent Cobra Truggy-e RTR.

6.1. Starting the Truggy

1. Place the truggy on a flat, clear surface.
2. Turn on the transmitter first, then the truggy's ESC.
3. Wait for the ESC to initialize (indicated by beeps or LED lights).

6.2. Driving Controls

- **Steering:** Use the steering wheel on the transmitter to control the direction of the front wheels.
- **Throttle:** Pull the trigger on the transmitter to accelerate forward. Push the trigger forward to brake or reverse.

6.3. Operating Environment

The Cobra Truggy-e is designed for off-road use. Choose an open area free from obstacles, water, and excessive dust. Avoid operating in extreme temperatures.

6.4. Post-Operation

1. Turn off the truggy's ESC first, then the transmitter.
2. Disconnect the battery from the ESC and remove it from the truggy. Allow the battery to cool before recharging.
3. Inspect the truggy for any damage or loose parts.

COBRA RTR^e

Serpent

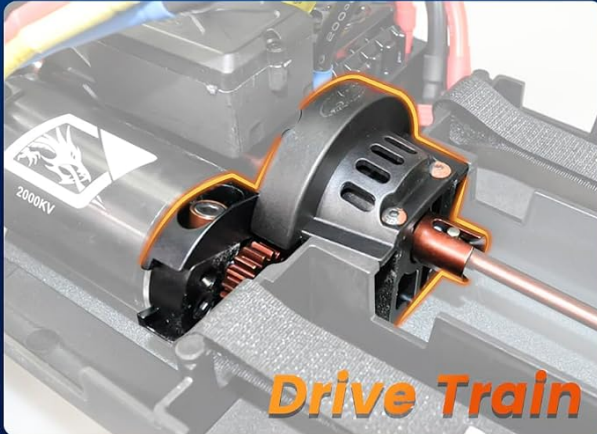


Image 6.1: Internal view of the drivetrain components, including the gear differential and drive shafts.

7. MAINTENANCE

Regular maintenance is essential to keep your Serpent Cobra Truggy-e RTR in top condition and extend its lifespan.

7.1. Cleaning

- After each run, remove dirt, dust, and debris from the chassis, suspension, and drivetrain using a soft brush or compressed air.
- Avoid using water or solvents directly on electronic components.

7.2. Inspection

- Regularly check all screws, nuts, and bolts for tightness.
- Inspect tires for wear and damage.
- Examine suspension components (shocks, arms, linkages) for bends, cracks, or excessive play.

- Check gear mesh between the motor pinion and spur gear. Adjust if necessary to prevent premature wear.

7.3. Lubrication

- Apply a small amount of appropriate lubricant to moving parts such as universal joints and bearings as needed.
- Check and replace shock oil periodically to maintain optimal damping performance.



Image 7.1: The robust aluminum chassis plate and adjustable shock towers.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your Serpent Cobra Truggy-e RTR.

Problem	Possible Cause	Solution
Truggy does not power on	Dead battery, loose connection, ESC off	Charge battery, check all connections, ensure ESC is switched on

Problem	Possible Cause	Solution
Loss of control/Erratic behavior	Low transmitter battery, interference, loose antenna	Replace transmitter batteries, operate in a clear area, check antenna connection
Motor not responding	Motor/ESC connection loose, ESC calibration issue, damaged motor/ESC	Check motor wires, recalibrate ESC (refer to ESC manual), contact support if damaged
Truggy pulls to one side	Steering trim incorrect, damaged steering linkage	Adjust steering trim on transmitter, inspect steering components for damage
Unusual noises from drivetrain	Debris in gears, incorrect gear mesh, worn bearings	Clean gears, adjust gear mesh, inspect and replace worn bearings

For issues not listed here or if solutions do not resolve the problem, please contact Serpent customer support.

9. SPECIFICATIONS

- **Model:** Serpent Cobra Truggy-e RTR
- **Model Number:** 600039
- **Scale:** 1/8
- **Drive:** 4WD
- **Motor:** DragonRC longbody 2000kV Brushless Motor
- **Speed Controller:** DragonRC waterproof 150A (4-6S compatible)
- **Servo:** 16kg metal-gear DragonRC-Savox
- **Transmitter:** Digital 2.4 GHz
- **Chassis:** Narrow 3mm 7075T6 aluminum chassis plate
- **Dimensions:** 7.86 x 18.11 x 23.62 inches (Product)
- **Weight:** 7.7 pounds (Item)
- **Recommended Age:** 18 years and up

10. WARRANTY AND SUPPORT

Serpent products are manufactured to high standards. For warranty information and customer support, please refer to the documentation included with your purchase or visit the official Serpent website. You can also find more information and contact details on the [Serpent Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question