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PER MANUALE DETTAGLIATO E RICERCA PARTI. PER FAVORE, VAI QUI

FÜR DETAILLIERTE HANDBUCH UND TEILESUCHE. BITTE GEHEN SIE HIER

POUR LE MANUEL DÉTAILLÉ ET LA RECHERCHE DE PIÈCES. VEUILLEZ ALLER ICI

詳細なマニュアルと部品の詳細については。ここに行ってください



SCA-1E 2.1 1981
RANGE ROVER
1/10TH 4WD SCALE CRAWLER

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SCA-1E 2.1 1981
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USER MANUAL & SETUP GUIDE

用戶手冊和設置指南

MANUALE D'USO E DI MONTAGGIO

Bedienungs - und Bauanleitung

Manuel de l'utilisateur et guide de réglages

ユーザー マニュアル ・ セットアップ ガイド



Trail Start



Welcome to the world of Carisma SCA-1E Adventure. This is just the starting point on a journey that for many will undoubtedly last a lifetime. Where it eventually leads you to is your own choice. The first step was simply opening the box, the next will be entirely up to you.

Find that perfect location, drive from point A to point B, soaking in the scenery along the way and truly becoming one with your environment. The World is so diverse, it's terrain varied and challenging, but the SCA-1E offers the perfect Travelling Companion to embracing it all, head on...

The rig offers tried and trusted Off Road features like a Solid Axle, 4WD Driveline, a centrally located Transmission and Motor, True 4-Link Suspension, Adjustable Coil Over, Oil Filled Shocks, and Soft Compound, Thickly Treaded Scale Tyres. The electrics Splash proof, the Steering Servo High Torque and 2.4GHz Radio System, safe and Interference Free.

The bodyshell can be left completely stock or personalised to your own level of additional detail. You can alter the weight bias and how the rig physically drives by adjusting the main packs location, or adding Wheel Weights. Improve its extreme abilities by adding a Remote Winch to the front bumper and to aid Night Running, optional LED lights. The Electronic Speed Control is set into Crawler Mode as standard, offering instant reverse and an always on Drag Brakes. This improves the rigs ability to descend steep inclines under compete Electronic Descent Control.

Look at the SCA-1E as a blank sheet of paper. You decide its future feature set and abilities, and in turn it will help shape your own personal destiny. Thank you for becoming another member of the fast-growing Global Scale Community, and Carisma RC Family. We hope that you enjoy every aspect of the journey.

Life is short, so truly live it, one #CarismaScaleAdventure at a time!



SAFETY PRECAUTIONS

Thank you for your purchase of the Carisma SCA-1E Rig. With proper use and regular, basic maintenance, this rig will provide you and all those who drive it hours of reliable RC fun! Please read this manual to fully understand its features, capabilities, and the best operation of the product. Should you have a technical question or need replacement parts, please contact your local Carisma RC dealer, original place of purchase or our dedicated web Shop: <http://www.carisma-shop.com>. You may also contact us direct via e-mail at: webmaster@carisma-shop.com

WARNING

Read the **ENTIRE** instruction manual to become familiar with the features of this product before operating. This is a sophisticated hobby grade product. It must be operated with caution and common sense. It will require some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product, persons, or other property. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Carisma RC. This manual contains instructions for safe operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup, or use. If you are not prepared to accept these condition, please return this product immediately to place of purchase.

CAUTION:

This product is intended for ages 14+ Users under 18 years of age require parental supervision.
Do not expose any battery or component to open flame or other source of high temperature.
You must read the enclosed instruction manual completely prior to using this product.
Do not use any charger except the one included to charge the battery.
Never leave a battery unattended during charging.
Do not expose any components to moisture.
Always avoid water exposure to all equipment that's not specifically designed and protected for this purpose.
As the end user of this product, you are solely responsible for operating in a manner that does not endanger yourself and others, or result in damage to the product, or property of others.

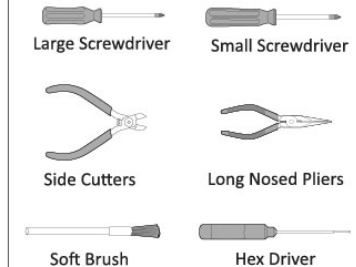
Always carefully follow the directions and warnings for this, and any optional equipment (chargers, etc.).
This model is controlled by a radio signal subject to interference from many sources outside your control.
Never place any portion of the vehicle in your mouth as it could cause serious injury or even death.
Always operate your vehicle in open space away from full-size vehicles, traffic, people, and animals.
Always keep a safe distance in all directions around your model to avoid collisions or injury.
Always keep all chemicals, small parts, and anything electrical out of the reach of children.
Always keep transmitter powered on while your vehicle is power on.
Always remove batteries after use or before disassembly.
Never operate your vehicle with low transmitter batteries.
Always keep your vehicle in sight and under control.
Never operate your vehicle with damaged wiring.
Always let parts cool after use before touching.
Always keep moving parts clean and dry.
Always use fully charged batteries.



WHAT'S IN THE BOX



TOOLS RECOMMENDED (NOT INCLUDED)



ABOUT THE RADIO SYSTEM

CTX-8000 2.4GHZ FHSS TECHNOLOGY SYSTEM

The following is an overview of the various functions and adjustments found on CTX-8000 radio system. It is important to read and understand these functions and adjustments before driving your Crawler.

TRANSMITTER FUNCTIONS:

Steering Wheel: Controls the turning direction of the Crawler (left/right).

Throttle Trigger: Controls the speed and direction of movement (forward/brake/reverse) of the Crawler.

On/Off Switch: Powers the transmitter on and off.

FTN Key: Used to synchronize the connection between the transmitter and receiver. May also serve as an additional function on different models.

LED Indicator: Glows green or red to indicate low battery power, synchronizing in progress, setting endpoints, and normal operation.

ATV: Adjust the maximum steering throw in both directions when turning the Crawler left of right.

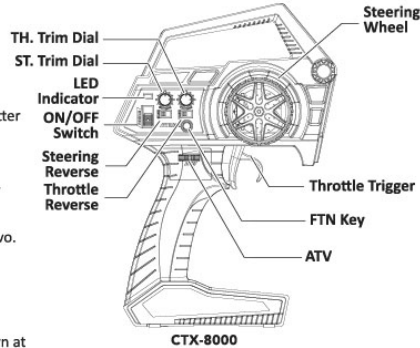
ST. Trim: Adjusts the neutral (centered) position of the steering servo.

TH. Trim: Adjusts throttle neutral position.

Steering Reverse: Reverses the L/R direction when operating the steering wheel.

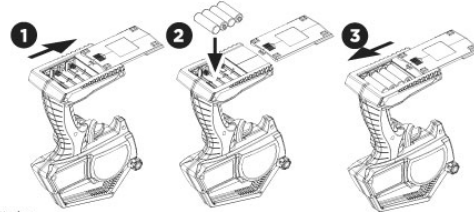
Throttle Reverse: Reverses the forward/reverse direction when operating throttle.

Usually, drivers will experience understeer when making a wide turn at high speed or oversteer when attempting sharp turns at high speed (easy to spin out). Drivers should practice a smooth application of both steering and throttle for various cornering speeds and road surfaces.



BATTERY INSTALLATION

1. Remove the battery compartment cover as shown.
2. Install the batteries observing the correct polarity as marked on the battery compartment.
3. Reinstall the battery compartment cover as pictured.



Warning:

Never disassemble alkaline batteries or place batteries in fire or near chemical agents, as personal injury or property damage can occur.

Battery Disposal:

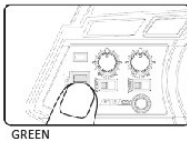
Observe local environmental regulations regarding disposal of expired batteries.

1. After use, dispose old batteries in designated areas far away from any water supply, household areas and plants.
2. Submit the used batteries to specified battery recycling stations. Visit www.call2recycle.org for directions to battery recycling centers near you.

BATTERY LED INDICATOR

The Green LED indicator located on the front left side of the transmitter provides a visual status of battery condition. The green LED will illuminate solid, indicating that the batteries have sufficient power. When batteries voltage drops below 4 volts, LED will flash red, indicating the batteries are low and should be replaced.

- Solid GREEN:** Sufficient Power supply
- Flashing RED:** Time to replace batteries



GREEN

ATV

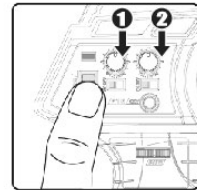
ATV (adjustable travel volume) allows the driver to adjust the maximum steering angle in both directions.

Experiment to find the ideal setting for your vehicle based on the running surface and personal preference.



ATV

BEFORE DRIVING YOUR CRAWLER



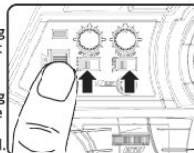
1. **Steering:** Adjust the steering trim so that the Crawler goes in a straight line without needing to touch the steering wheel.
2. **Throttle:** Adjust the throttle trim so that the vehicle remains at rest (not moving) when the throttle trigger is in the neutral position.

SERVO REVERSING

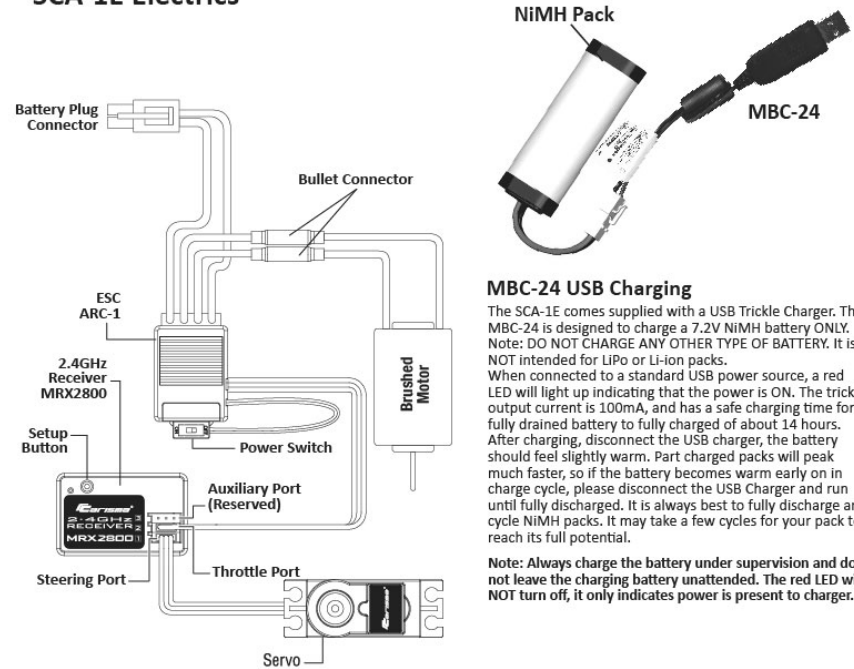
Use this feature to change the direction of steering wheel and throttle trigger.

Steering Reverse: Reverses the response direction when operating steering wheel. Right becomes left and vice versa.

Throttle Reverse: Reverses the response direction when operating throttle trigger. Pulling the throttle trigger becomes reverse and pushing the trigger is now forward.



SCA-1E Electrics



MBC-24 USB Charging

The SCA-1E comes supplied with a USB Trickle Charger. The MBC-24 is designed to charge a 7.2V NiMH battery ONLY. Note: DO NOT CHARGE ANY OTHER TYPE OF BATTERY. It is NOT intended for LiPo or Li-ion packs.

When connected to a standard USB power source, a red LED will light up indicating that the power is ON. The trickle output current is 100mA, and has a safe charging time for a fully drained battery to fully charged of about 14 hours. After charging, disconnect the USB charger, the battery should feel slightly warm. Part charged packs will peak much faster, so if the battery becomes warm early on in charge cycle, please disconnect the USB Charger and run until fully discharged. It is always best to fully discharge and cycle NiMH packs. It may take a few cycles for your pack to reach its full potential.

Note: Always charge the battery under supervision and do not leave the charging battery unattended. The red LED will NOT turn off, it only indicates power is present to charger.

Programming Procedure:

Since this ESC is without setup key, so it use Throttle as Key to interact with the ESC.

- For safety, suggest to remove the motor pinion during ESC setting.
- Turn off ESC, Keep hold the Throttle TH at Max forward and then power on the ESC.
- Keep holding (approx 5 sec) the TH at Max forward until beep once and both LED flashing, then release TH to Neutral position
- Now, ESC at "Selecting Item to Edit", ESC will repeating show the follow pattern with sound one by one:

A. Battery Type Selection	Green LED only	(beep once)
B. End points calibration	Red LED only	(beep 2 times)
C. ESC Mode Selection	Red + Green LED	(beep 3 times)

To Select which item to edit, simply pull the trigger after the corresponding "beep" indicator

Battery Type Selection

1. LED indicates Current Battery Type
 - Red = LiPo (beep once)
 - Green = NiMH (beep 2 times)
2. Pull Throttle to max to change it, and LED indicator will be updated immediately with beep.
3. If no throttle action over 4 second, programming will be ended:
 - both LED flashed 4 times with 4 beep, finally all LED turn off
 - User need to power off and turn on again to return to normal operation

ESC Mode Selection

1. LED indicate Current ESC Mode:

- Green LED Only Forward / Reverse with Smart Brake (beep once)
- Green LED Flashing quickly Forward only (beep 2 times)
- Green LED Flashing slowly Beginner Mode (beep 3 times)
- Red and Green LED Crawler mode (beep 4 times)

2. Pull TH to Max Forward to update ESC Mode

3. If no throttle action over 4 seconds, programming will be ended:

- both LED flash 4 times with 4 beep, finally all LED turn off
- User need to power off and turn on again to return to normal operation

End points Calibration

1. Just after entered End-points Calibration, the ESC keep flashing green LED to indicate waiting for TH return to Neutral position. Once Neutral position is detected, green LED solid on for 1 sec with beep once.
2. Now keep flashing Red LED to indicate waiting for TH at Max Forward. When Max Forward is detected. Red LED solid on for 1 sec with beep once.
3. ESC keep flashing Green LED with Red LED solid on, once Max Reverse position detected, Green LED solid on for 1 sec and beep once.
4. Now, programming is done, it shows both LED flashing 4 times with 4 beep, finally all LED turn off
5. User need to power off and turn on again to return to normal operation



FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide residential protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and the receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

FCC Warning:

The equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. Modifications not authorized by the manufacturer may void the user's authority to operate this device. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Limited Warranty

Warranty Period: Carisma R/C warrants that the SC-1E ("Product") will be free from original factory defects in materials and workmanship upon purchase ("Warranty Period"). **What is Not Covered** - This warranty is not transferable and does not cover (a) cosmetic damage, (b) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (c) modification to any part of the Product, (d) attempted service by anyone other than a Carisma R/C authorized service center, or (e) Product not purchased from an authorized Carisma RC dealer.

OTHER THAN THE EXPRESS WARRANTY ABOVE, CARISMA RC MAKES NO OTHER WARRANTY OR REPRESENTATION, AND THEREFORE DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND SUITABILITY FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Purchaser's Remedy - Carisma RC's sole obligation and purchaser's sole and exclusive remedy shall be that Carisma RC will, at its option, either (a) service, or (b) replace, any Product determined by Carisma RC to be defective. Carisma RC reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Carisma RC. Proof of purchase is required for all warranty claims. **SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.**

Limitation of Liability

CARISMA RC SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF CARISMA RC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Further, in no event shall the liability of Carisma RC exceed the individual price of the Product on which liability is asserted. As Carisma RC has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you see the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase. This warranty gives you specific legal rights, and you may also have other rights which vary from country to country, or state to state. Carisma RC reserves the right to change or modify this warranty at any time without notice.

Carisma LTD
21/ Floor, Kingsway Industrial Building,
Phase 2, 173 - 175 Wo Yi Hop Road,
Kwai Chung, N.T., Hong Kong.

Note: For official Carisma RC spare parts, see your local hobby shop or place of purchase first. If unavailable, parts can be ordered direct at: <http://www.carisma-shop.com>

SCA-1E Setup Notes



Shocks, Oil Weight & Springs:

Weight Bias:

Motor Pinion & Spur Gear:

Slipper Clutch & Motor Wind:

Other Setup Options Used:

"Owning a Range Rover is just the start, where it takes you is the real adventure..."

Ivan Carisma