

## ARRIS MN-128

# ARRIS MN-128 1/12 Scale RC Rock Crawler Instruction Manual

Model: MN-128

## 1. INTRODUCTION

Thank you for choosing the ARRIS MN-128 1/12 Scale RC Rock Crawler. This hobby-grade remote control vehicle is designed for enthusiasts seeking realistic off-road performance and detailed design. With its 4x4 drive system, durable construction, and precise control, the MN-128 is ready to conquer various terrains. This manual provides essential information for setup, operation, maintenance, and troubleshooting to ensure optimal performance and enjoyment.



Figure 1: The ARRIS MN-128 1/12 Scale RC Rock Crawler.

## 2. WHAT'S IN THE BOX

---

The ARRIS MN-128 comes as a Ready-To-Run (RTR) package, including everything needed to start your adventure:

- 1x ARRIS MN-128 1/12 Scale RC Rock Crawler
- 1x 2.4GHz Remote Control Transmitter
- 1x 7.4V 1200mAh Battery
- 1x USB Charger
- 1x Instruction Manual

## 3. FEATURES

---

The MN-128 RC Rock Crawler is engineered with several key features for enhanced performance and realism:

- **Realistic Design & Durable Build:** Features a highly detailed 1/12 scale Jeep Wrangler design with a sturdy hard plastic shell, functional doors, roof racks, bumpers, and side mirrors.
- **Superior Performance:** Equipped with a 4WD system, powerful 390 magnetic motor, and 250g waterproof servo for exceptional traction and stability.
- **Precise Control:** Proportional throttle and steering system allow for smooth acceleration and responsive turning.
- **All-Terrain Capability:** Durable vacuum tires, independent suspension, high-elastic shock absorbers, and high ground clearance enable excellent performance on rocky, grassy, sandy, and muddy terrains.
- **Customizable & Upgradable:** Supports aftermarket enhancements like metal gears, upgraded servos, and larger batteries. The paintable body shell allows for personalized customization.
- **Advanced Lighting System:** Features functional LED headlights, brake lights, reverse lights, and front/rear turn signals for enhanced realism and visibility.

# 4WD ALL TERRAIN DESIGN

## 1:12 RC CRAWLER

- WRANGLER STYLE -

# MN128



Figure 2: 4WD All-Terrain Design of the MN-128.



# **IMPROVED PERFORMANCE**

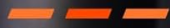
---

# 4x4



Figure 3: Improved 4x4 Performance Components.

# **SIMULATION DESIGN WITH OPENABLE DOOR**



*Figure 4: Simulation Design with Openable Doors.*

## BUILT FOR CLIMBING, READY FOR ADVENTURE

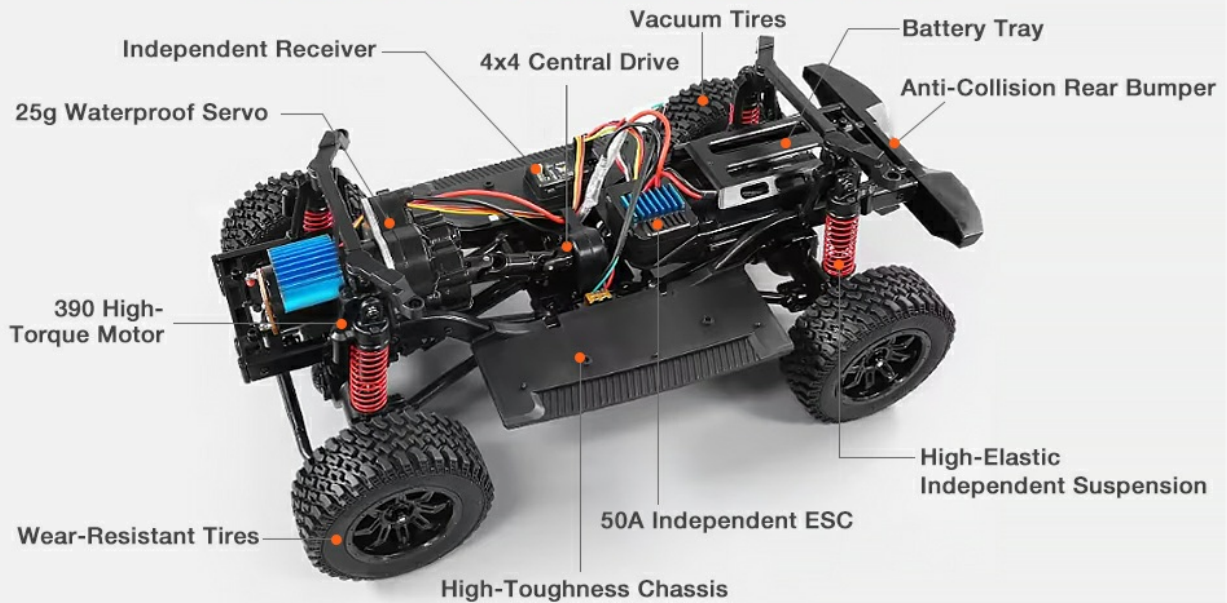


Figure 5: Internal Components and Chassis Layout.

### 4. SETUP

The MN-128 is designed for quick setup. Follow these steps to get started:

1. **Charge the Battery:** Connect the provided 7.4V 1200mAh battery to the USB charger. Plug the charger into a suitable USB power source. The indicator light on the charger will show the charging status (e.g., red for charging, green for fully charged).
2. **Install the Battery:** Carefully remove the body shell of the RC crawler. Locate the battery compartment and securely place the charged battery inside. Connect the battery cable to the vehicle's power connector.
3. **Install Remote Control Batteries:** Open the battery compartment on the remote control. Insert 1 AA battery (included) ensuring correct polarity. Close the compartment.
4. **Power On:** Turn on the RC crawler by pressing and holding the power button (usually located on the chassis) for a few seconds until the LED lights illuminate. Then, turn on the remote control. The remote and vehicle should automatically bind. If not, refer to the remote control's specific binding instructions.

### 5. OPERATING INSTRUCTIONS

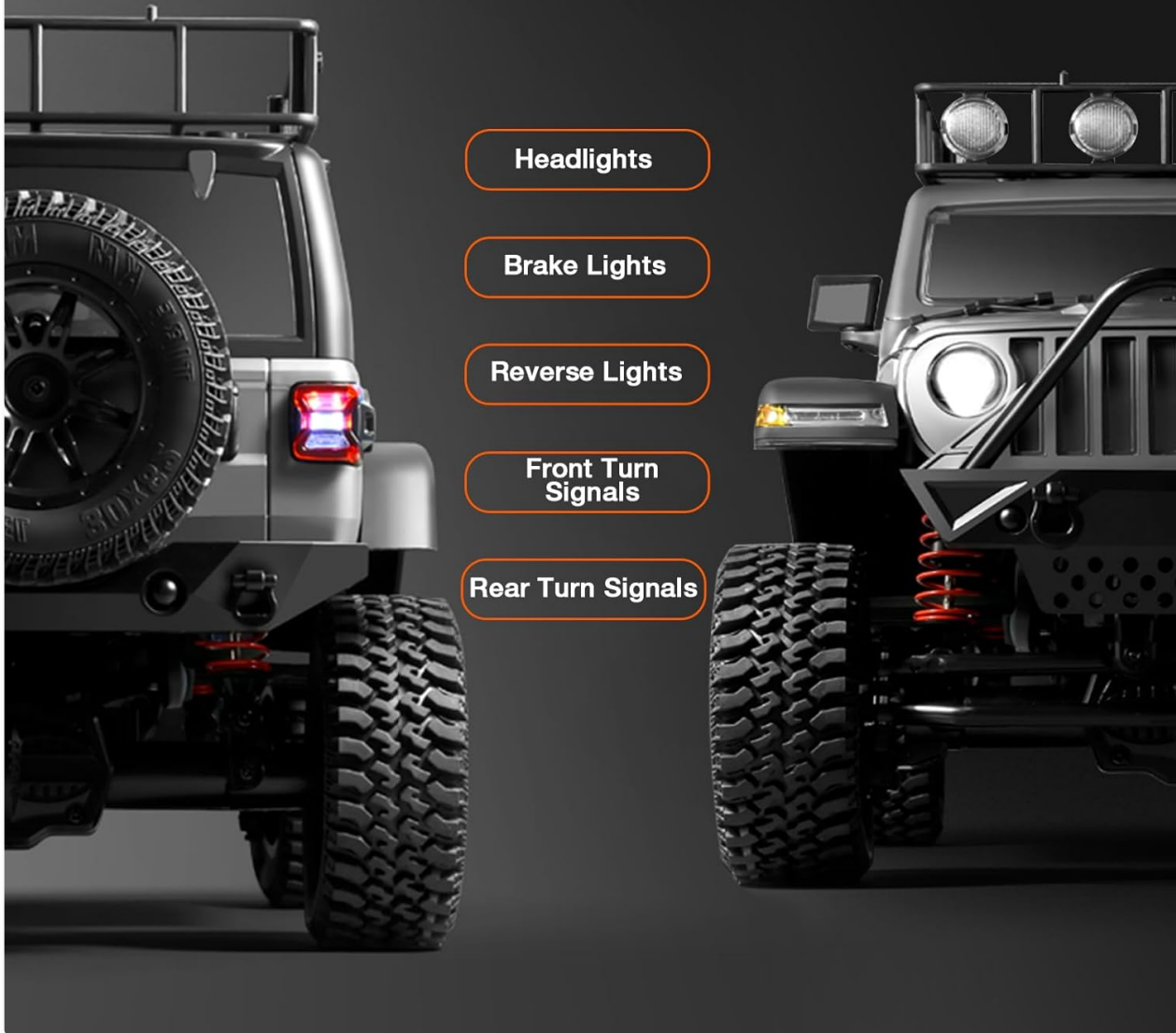
Once set up, you can begin operating your ARRIS MN-128 RC Rock Crawler. Familiarize yourself with the remote control functions:

- **Throttle:** Use the trigger on the remote control to move the vehicle forward (pull) and backward (push).
- **Steering:** Use the steering wheel on the remote control to turn the vehicle left or right.
- **Lighting System:** The remote control may have buttons to cycle through different lighting modes for the headlights, brake lights, and turn signals. Experiment with these to enhance your driving experience.



# PRECISION LIGHTING SYSTEM

Headlights, brake lights, and turn signals that move with you



*Figure 6: Precision Lighting System.*

The 2.4GHz remote control system ensures interference-free operation, allowing multiple RC cars to run simultaneously. The MN-128 is built to handle rugged terrain, sand, mud, rocks, and mountain trails with its independent suspension and high-traction tires.

Your browser does not support the video tag.

*Video 1: Demonstration of the MN-128 RC Crawler in action on various terrains.*

## 6. MAINTENANCE

Regular maintenance will prolong the life and performance of your RC crawler:

- **Cleaning:** After each use, especially in dusty or muddy conditions, clean the vehicle with a soft brush or compressed air. Avoid using water directly on electronic components.
- **Battery Care:** Always fully charge the battery before storage and discharge it to approximately 50% if storing for extended periods. Do not overcharge or over-discharge the battery.
- **Inspection:** Periodically check all screws, linkages, and moving parts for looseness or damage. Tighten any loose screws and replace damaged parts as needed.
- **Lubrication:** Apply a small amount of RC-safe lubricant to moving metal parts (e.g., drive shafts, gears)

to reduce wear and friction.

## 7. TROUBLESHOOTING

---

If you encounter issues with your MN-128, refer to the following common problems and solutions:

- **Vehicle Not Responding:**
  - Ensure both the vehicle and remote control are powered on.
  - Check if the battery is fully charged and properly connected.
  - Verify that the remote control batteries are fresh and correctly installed.
  - Re-bind the remote control to the vehicle if necessary (refer to remote control instructions).
- **Poor Performance/Weak Power:**
  - The battery may be low; recharge it fully.
  - Check for debris or obstructions in the drivetrain or wheels.
  - Inspect the motor and gears for any visible damage or wear.
- **Steering Issues:**
  - Check the steering trim on the remote control.
  - Inspect the steering servo and linkages for damage or obstructions.

## 8. SPECIFICATIONS

---

Detailed specifications for the ARRIS MN-128 RC Rock Crawler:

- **Scale:** 1/12
- **Product Dimensions:** 15 x 8 x 7 inches
- **Item Weight:** 5.19 pounds
- **Speed:** 8KM/H
- **Climbing Angle:**  $\leq 45^\circ$
- **Tractive Force:** 20KG
- **Loading Weight:** 5KG
- **Motor:** 390 Strong Motor
- **Servo:** 25g Waterproof Servo
- **Steering Angle:**  $\leq 30^\circ$
- **Signal/Distance:** 2.4G/50m
- **Manufacturer Recommended Age:** 16 years and up





Figure 7: Product Dimensions.

## 9. SAFETY INFORMATION

To ensure safe operation and prevent damage, please observe the following safety guidelines:


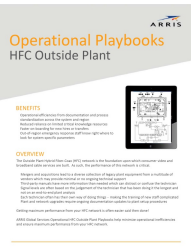
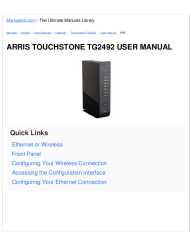



- Always operate the RC crawler in open areas away from people, pets, and obstacles.
- Do not operate in wet conditions or near water, as electronics may be damaged (unless specifically rated waterproof).
- Keep fingers, hair, and loose clothing away from moving parts (wheels, gears, drive shafts).
- Supervise children during operation, even if they meet the recommended age.
- Use only the provided charger and battery. Do not attempt to modify or use incompatible components.
- Store the vehicle and battery in a cool, dry place away from direct sunlight and heat.

## 10. WARRANTY AND SUPPORT

The ARRIS MN-128 RC Rock Crawler is designed for durability and performance. While specific warranty details are not provided in this manual, ARRIS is committed to customer satisfaction. If any issues arise with

your product, please contact our support team for assistance. We are ready to help resolve any concerns you may have.

## Related Documents - MN-128

	<p><a href="#">ARRIS SURFboard Cable Modem Quick Start Guide</a></p> <p>A quick start guide for setting up and managing the ARRIS SURFboard Cable Modem, including connection instructions and mobile app features.</p>
	<p><a href="#">ARRIS HFC Outside Plant Operational Playbooks</a></p> <p>ARRIS Global Services provides HFC Outside Plant Operational Playbooks to enhance efficiency and standardization in managing hybrid fiber-coax networks. These playbooks consolidate critical procedures, equipment information, and setup guides for technicians, reducing reliance on tribal knowledge and accelerating training.</p>
	<p><a href="#">ARRIS Touchstone TG2492 Telephony Gateway User Manual</a></p> <p>User guide for the ARRIS Touchstone TG2492 Telephony Gateway, covering installation, configuration, wireless and Ethernet connectivity, and troubleshooting for home and office networks.</p>
	<p><a href="#">ARRIS Touchstone TG2472G Telephony Gateway User Guide</a></p> <p>User guide for the ARRIS Touchstone TG2472G Telephony Gateway, detailing installation, configuration, features like DOCSIS 3.0, VoIP, MoCA 2.0, wireless connectivity, and troubleshooting.</p>
	<p><a href="#">Arris VIP 7300 TV Receiver: Basic Instructions and Setup</a></p> <p>Detailed guide for installing and using the Arris VIP 7300 TV receiver, covering package contents, remote control, connections, initial setup, and useful features.</p>
	<p><a href="#">ARRIS Standard Software License Agreement and Limited Warranty</a></p> <p>This document outlines the standard license agreement and limited warranty for ARRIS products and software. It details terms of use, restrictions, intellectual property rights, and warranty coverage for both hardware and software components.</p>