

MJX H12P

MJX H12P 1/12 Ford Bronco R Brushless RC Crawler User Manual

Model: H12P

Brand: MJX

1. INTRODUCTION

Welcome to the world of high-performance remote control crawling with the MJX H12P 1/12 Ford Bronco R. This Ready-To-Run (RTR) 4X4 off-road rock truck is engineered for enthusiasts seeking durability, power, and realistic detail. Featuring a brushless motor, waterproof electronics, portal axles, and an officially licensed hard-case Ford Bronco R body, the H12P is designed to conquer challenging terrains. This manual provides essential information for the safe and optimal operation, maintenance, and setup of your new RC crawler.



This image displays the complete MJX H12P Ford Bronco R RC Crawler package, including the highly detailed 1/12 scale vehicle, the 2.4GHz 4-channel remote control, and two 2S 2000mAh batteries.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage to the product or injury, please adhere to the following safety guidelines:

- Always remove the battery from the vehicle when not in use. Do not leave the battery installed in the car for extended periods.
- Keep the product away from water and moisture unless specifically designed for such conditions. The H12P is waterproof, but proper drying after wet use is recommended.
- Ensure all connections are secure before operation.
- Operate the RC crawler in open areas, away from people, pets, and obstacles.
- Adult supervision is recommended for users under 14 years of age.
- Use only the provided charger and batteries, or approved replacements.
- Do not attempt to modify the electronic components or motor.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x H12P RC Crawler
- 1 x T4M 2.4GHz 4-Channel Transmitter (Remote)
- 2 x 2S 2000 mAh Battery
- 1 x USB Charging Cable
- 1 x Cross Wrench
- 1 x Screwdriver
- 3 x Hexagon Wrench
- 4 x Extra Softer Springs
- 1 x Product Manual



This image displays the H12P RC Crawler demonstrating its 25KG towing capacity with a wagon cart, alongside a comprehensive list of all items included in the product package, such as the crawler, transmitter, batteries, charging cable, and tools.

4. PRODUCT OVERVIEW AND KEY FEATURES

The MJX H12P is packed with advanced features for an unparalleled RC crawling experience:

- **Simulated FOC Program:** The Electronic Speed Controller (ESC) features a special program that simulates FOC (Field-Oriented Control) automatic cruise. This allows the vehicle to maintain a set cruise speed and continue moving even when encountering obstacles, ideal for consistent crawling. It is powered by a 3650 3500KV brushless motor with a 45A brushless ESC, achieving a top speed of 15 Km/h for versatile cross-country cruising.
- **Portal Axles with Frame Rails:** Portal axles significantly raise the center ground clearance to an impressive 2.44 inches (62 mm). A robust 1 mm thick metal ladder frame with cross members provides exceptional torsional rigidity, preventing chassis twisting during extreme articulation. This design enhances capability across diverse terrains.



This diagram highlights the impressive off-road geometry of the H12P, showcasing its 58° approach angle, 46° rear approach angle, 62° passing angle, and 62mm ground clearance achieved by the portal axles.

- **Extreme Approach Angles:** With a 58° out-of-box approach angle in the front, a 46° rear approach angle, and a 62° passing angle, the H12P is exceptionally capable of climbing and navigating deep ruts and challenging obstacles.
- **Officially Licensed Replica Body:** The vehicle features a durable plastic hard-case body, offering high-precision simulation of the Ford Bronco R. It includes functional tail lights with working turn signals, reverse lights, and other realistic details.



This image showcases the H12P with its integrated LED lighting system activated, including headlights, tail lights, and turn

signals, emphasizing the realistic detailing of the licensed replica body.

- **Great Traction:** The H12P boasts a powerful towing capacity of up to 25KG, making it suitable for towing a wagon cart or other light loads, enhancing its utility for outdoor activities like camping.
- **Four-Link Suspension:** Equipped with a sophisticated four-link suspension system, the H12P features solid metal front and rear axles that provide excellent articulation, allowing it to climb over the toughest obstacles. Metal center driveshafts telescope freely to accommodate maximum suspension travel.
- **20KG Metal-Gear Waterproof Servo:** A digital precision, waterproof servo with high-strength metal gear outputs ensures the H12P has the durability and precise steering ability required to meet tough challenges reliably.



A detailed view of the 20KG metal-gear waterproof servo, highlighting its robust construction and digital precision, essential for reliable steering in challenging conditions.

- **4-Channel Radio System:** The 2.4GHz transmitter features exclusive cruise control for long-distance treks and includes a drag brake function. Users can set their speed using the transmitter and fine-tune it with the "TH D/R" knob. Lighting buttons are controllable, and winch access buttons are reserved for future upgrades. The system also supports multiple participants without interference.

5. SETUP

5.1. Battery Charging

1. Connect the included USB charging cable to a suitable USB power adapter (not included, 5V/2A recommended).
2. Connect the 2S 2000mAh battery to the charging cable.
3. Allow the battery to charge fully. The indicator light on the charger will change (e.g., red to green) when charging is complete.
4. Always supervise batteries during charging and disconnect once fully charged.

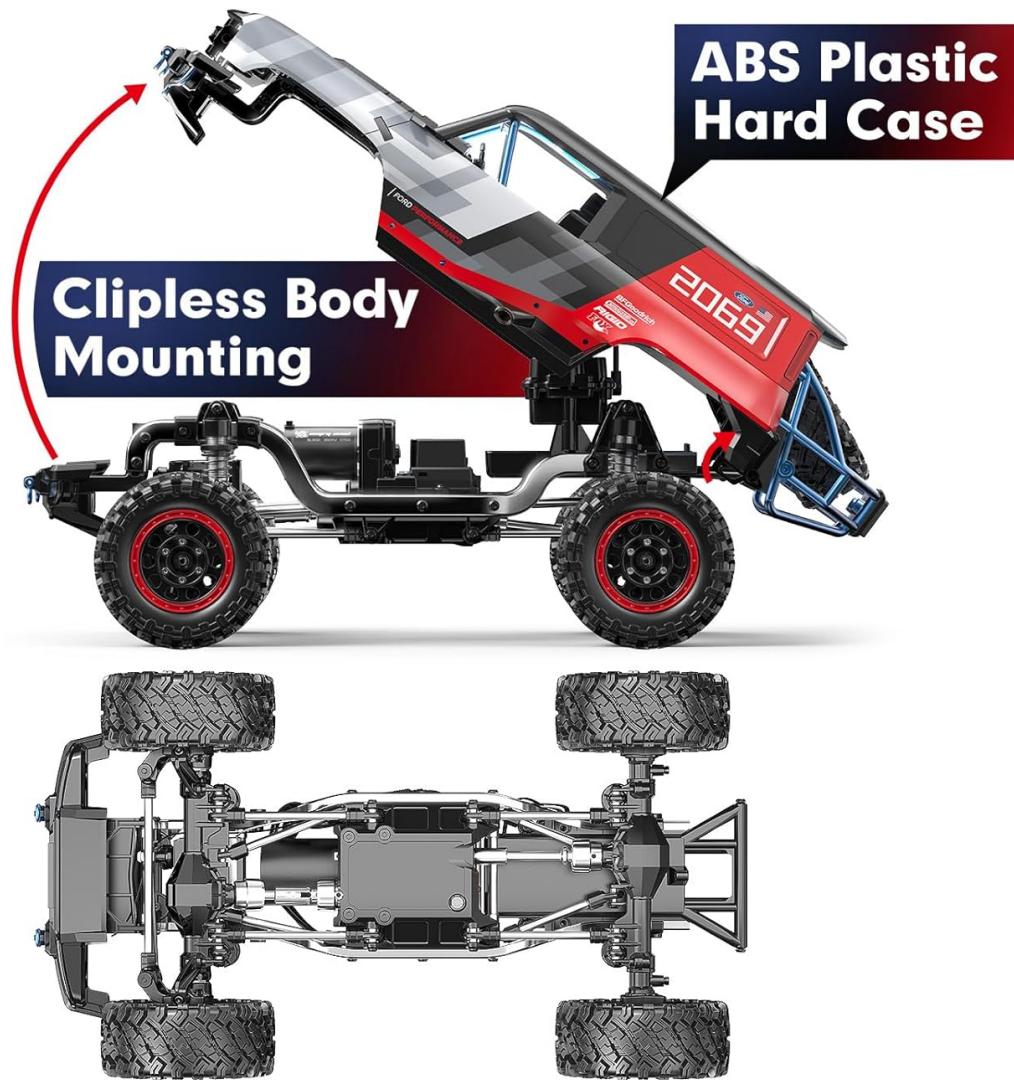


This image illustrates the physical dimensions of the included 2S 2000mAh battery, providing context for battery compartment

fitment.

5.2. Battery Installation (Vehicle)

1. Gently lift the clipless body of the H12P to access the battery compartment. The body is secured by magnets for easy access.
2. Insert a fully charged 2S 2000mAh battery into the designated battery tray.
3. Connect the battery connector to the vehicle's ESC connector. Ensure the connection is firm and correct polarity is observed.
4. Carefully lower and secure the body back onto the chassis.



METAL CENTER DRIVESHAFTS TELESCOPE FREELY

This image provides an exploded view of the H12P's chassis, detailing the convenient clipless body mounting mechanism and the robust metal center driveshafts designed for maximum suspension travel and durability.

5.3. Transmitter Battery Installation

1. Open the battery compartment on the back of the 2.4GHz transmitter.
2. Insert the required batteries (typically AA, refer to transmitter markings) observing correct polarity.
3. Close the battery compartment securely.

5.4. Pairing the Transmitter and Vehicle

1. Ensure the vehicle's battery is connected and the transmitter has fresh batteries.
2. Turn on the transmitter first. The indicator light will typically flash.
3. Turn on the vehicle's power switch.
4. The transmitter and vehicle should automatically pair. The transmitter's indicator light will become solid, indicating a successful connection.
5. If pairing fails, turn off both devices and repeat the process.

6. OPERATING INSTRUCTIONS

6.1. Basic Controls

2.4GHZ 4-CH RADIO CONTROL DISTANCE:330+ FT



This image presents the H12P RC Crawler with its key dimensions (length, width, height) and a comprehensive diagram of the 2.4GHz 4-channel radio transmitter, labeling its various controls such as steering trim, throttle trim, D/R knobs, and channel buttons.

- **Steering Wheel (CH1: ST):** Turn left or right to control the vehicle's direction.
- **Throttle Trigger (CH2: TH):** Pull to move forward, push to brake or reverse.
- **ST.TRIM:** Adjusts the neutral position of the steering. If the vehicle pulls left or right when the steering

wheel is centered, use this trim to correct it.

- **TH.TRIM:** Adjusts the neutral position of the throttle. If the vehicle creeps forward or backward when the throttle trigger is centered, use this trim to correct it.
- **ST.D/R (Steering Dual Rate):** Adjusts the maximum steering angle. Lower settings reduce sensitivity, useful for precise crawling.
- **TH.D/R (Throttle Dual Rate):** Adjusts the maximum throttle output. Lower settings reduce speed, useful for controlled crawling or for beginners.

6.2. Advanced Features

- **Drag Brake:** The transmitter includes a drag brake function, which automatically applies braking force when the throttle is released, helping the crawler hold its position on inclines.
- **Cruise Control:** Activate cruise control via the transmitter. Once engaged, you can set and fine-tune your desired speed using the “TH D/R” knob for consistent movement during long treks.
- **Lighting Controls (CH3):** Use the CH3 button on the transmitter to cycle through different lighting modes, controlling the headlights, tail lights, and turn signals for enhanced realism.
- **Winch Access (CH4):** The CH4 button is reserved for future winch functionality, allowing for potential upgrades.

6.3. Driving Tips

- **Off-Road Crawling:** The H12P excels on rough terrain. Use slow, controlled throttle inputs and precise steering for optimal crawling performance. The portal axles and high ground clearance are designed for this.
- **Pavement Driving:** While capable on pavement, the H12P's high ground clearance and soft suspension, ideal for crawling, can make it more susceptible to rolling over at higher speeds on flat, hard surfaces. Adjusting the Throttle & Steering D/R to lower settings can help maintain stability.
- **Water Operation:** The H12P is waterproof. However, avoid prolonged submersion and ensure to dry the vehicle thoroughly after use in wet conditions to prevent long-term corrosion.

**GET UP AND OVER ANYTHING
THAT GETS IN THE WAY.**



**CROSS-CRUISE TOP
SPEED 15 KM/H**

This collage illustrates the H12P's versatility across different environments, showcasing its performance in water, sand, and rocky landscapes, highlighting its all-terrain capabilities and waterproof design.

7. MAINTENANCE

7.1. Cleaning

- After each use, especially in dirty or wet conditions, clean the vehicle.
- Use a soft brush or compressed air to remove dirt, dust, and debris from the chassis, suspension, and motor area.
- For stubborn dirt, a damp cloth can be used, but avoid excessive moisture on electronic components.
- Ensure the vehicle is completely dry before storing or recharging batteries.

7.2. Inspection

- Regularly inspect all screws and fasteners for tightness. Tighten any loose screws.
- Check the suspension components (shocks, links) for damage or excessive wear.
- Inspect the driveshafts for bends or damage.

- Ensure the steering servo operates smoothly and without binding.
- Examine tires for wear and ensure they are securely mounted to the wheels.

7.3. Battery Care and Storage

- Always disconnect and remove batteries from the vehicle and transmitter when not in use.
- Store batteries in a cool, dry place, away from direct sunlight and flammable materials.
- For long-term storage, charge LiPo batteries to a storage voltage (typically 3.8V per cell) to prolong their lifespan.
- Never puncture, short-circuit, or expose batteries to extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your H12P RC Crawler, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Vehicle does not respond to transmitter	Low battery in vehicle or transmitter; Not paired; Power switch off	Charge/replace batteries; Re-pair transmitter and vehicle; Ensure power switches are ON
Reduced range or intermittent control	Interference; Low transmitter battery; Damaged antenna	Move to an area with less interference; Replace transmitter batteries; Inspect antenna for damage
Vehicle moves slowly or lacks power	Low vehicle battery; Motor/ESC overheating; Obstruction in drivetrain	Recharge vehicle battery; Allow components to cool; Check for debris in gears/axles
Steering is off-center or unresponsive	ST.TRIM adjustment needed; Damaged servo; Loose steering linkage	Adjust ST.TRIM on transmitter; Inspect servo and linkage for damage or looseness
Vehicle flips easily on flat surfaces	High center of gravity (normal for crawlers); High speed on pavement	Reduce speed using TH.D/R; Drive cautiously on flat surfaces; Focus on off-road use

If the problem persists after attempting these solutions, please contact customer support.

9. SPECIFICATIONS

Detailed specifications for the MJX H12P RC Crawler:

Feature	Detail
Product Dimensions	15.35 x 8 x 7.28 inches (390 x 203 x 185 mm)
Item Weight	4.4 pounds (2 kg)
Item Model Number	H12P

Feature	Detail
Manufacturer Recommended Age	14 years and up
Batteries	2 x 2S 2000mAh Nonstandard Battery (included)
Motor Type	3650 3500KV Brushless Motor
ESC	45A Brushless ESC with FOC Program
Top Speed	15 Km/h
Ground Clearance	2.44 inches (62 mm) (via Portal Axles)
Servo	20KG Metal-Gear Waterproof Servo
Radio System	2.4GHz 4-Channel Transmitter
Body Type	ABS Plastic Hard Case, Officially Licensed Ford Bronco R
Towing Capacity	Up to 25KG

10. WARRANTY AND SUPPORT

MJX products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official MJX website. If you require technical assistance, replacement parts, or have any questions not covered in this manual, please contact MJX customer support through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: MJX

Contact: Refer to MJX official website or product packaging for support contact details.

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Related Documents

<p>No.14209 14+ HYPER GO 1:14 RC HIGH SPEED CAR USER MANUAL  V2.0 4WD</p>	<p>MJX 14209 1:14 RC High Speed Car User Manual V2.0 Comprehensive user manual for the MJX 14209 1:14 scale RC High Speed Car. Covers safety precautions, operation, component details, battery management, and assembly instructions for this brushless RC truck.</p>
<p>No.14210 14+ HYPER GO 1:14 RC HIGH SPEED CAR USER MANUAL  V2.0 4WD</p>	<p>MJX 1:14 Hyper Go RC High Speed Car User Manual User manual for the MJX 1:14 Hyper Go RC High Speed Car, detailing operation, safety precautions, component assembly, and spare parts.</p>
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Documents - MJX – H12P

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-- NO. H12P --

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