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> AUTOFREE Rear Bumper (New Design 102 Style) Instruction Manual for 2019-2024 RAM 1500

AUTOFREE NRM03B102-BX

AUTOFREE Rear Bumper (New Design 102 Style) Instruction Manual

Model: NRM03B102-BX

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the AUTOFREE Rear Bumper, New Design 102 Style. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. COMPATIBILITY

This rear bumper is designed for:

- **2019-2024 RAM 1500** (Excludes Classic Model)

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 1 x AUTOFREE Rear Bumper (New Design 102 Style)
- All necessary mounting accessories (bolts, washers, nuts, etc.)
- 1 x Set of 4-inch LED Pod Lights (2 lights total)
- 2 x D-Ring Shackles

product Size

Product Dimensions: 76.9 x 18.3 x 10.8 inch

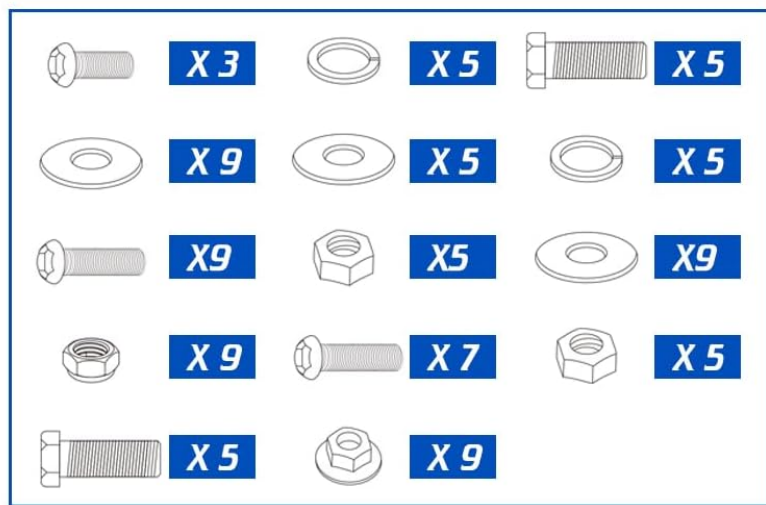
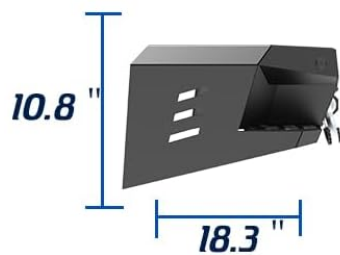


Image: Overview of product dimensions and included hardware components.

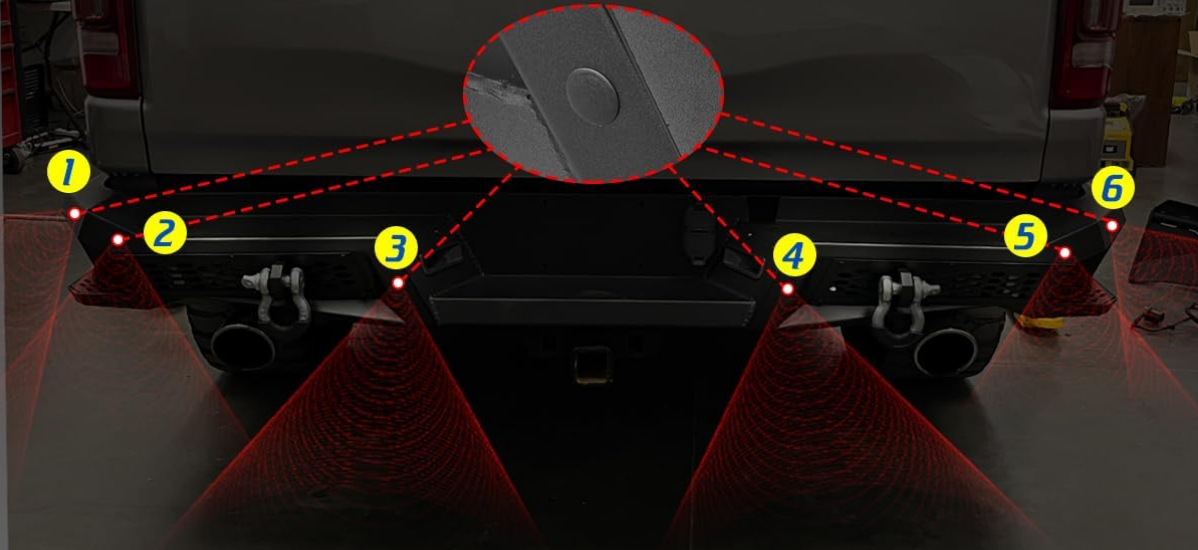
4. FEATURES

The AUTOFREE Rear Bumper (New Design 102 Style) includes the following features:

- **Material:** Constructed from Q235A Steel for durability.
- **Finish:** Powder Coated Black for corrosion resistance.
- **Park Distance Sensor Mounting Holes:** Designed to retain full functionality of factory backup sensors. Includes anti-dust plugs for unused sensor holes.
- **LED Pod Light Mounting Brackets:** Accepts 3-inch or 4-inch pod lights on each side. A set of 4-inch LED pod lights is included.
- **Honeycomb Decorative Mesh & Decorative Frames:** Frames allow for custom color spraying.
- **D-Ring Mounts & D-Ring Shackles:** High-strength D-ring mounts with included D-ring shackles for recovery options.
- **License Lamp Mounting Holes:** Compatible with OEM license plate lights (lights not included).
- **Integrated Side Steps:** Two side steps with a cut-out, non-slip design for convenient access to the truck bed.

Parking Sensors Mounting Hole

6 RADARS MOUNTING HOLES



WORK WITH FACTORY SENSOR



**BACK VIEW OF
THE PARKING SENSOR
MOUNTING POSITION
(WE DO NOT PROVIDE RADAR)**

Image: Detail of parking sensor mounting holes, designed to work with factory sensors.

Pod Light



- 1. ACCEPT 3" OR 4" PODS LIGHT ON EACH SIDE**
- 2. INCLUDES A SET OF 4" POD LIGHTS**

Image: Illustration of the pod light mounting locations and the included 4-inch LED pod lights.

Reserved hole details display

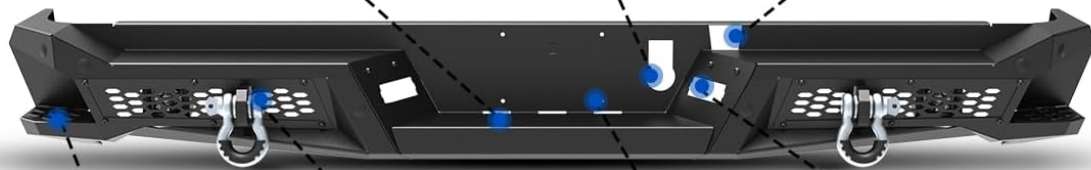
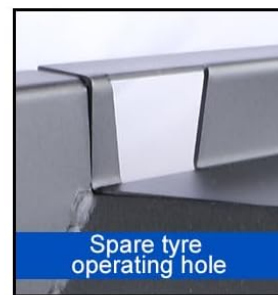


Image: Display of various reserved holes and features on the bumper, such as drain holes, mounting holes for trailer plug, spare tire operating hole, anti-slip steps, shackle mounting brackets, license plate mounting holes, and license lamp mounting holes.

Allows DIY Colour Spraying



Image: Example of decorative frames that can be customized with DIY color spraying.

5. SETUP (INSTALLATION)

The AUTOFREE Rear Bumper is designed for a direct bolt-on installation, utilizing existing factory holes. No cutting or drilling is required for installation.

1. **Preparation:** Park the vehicle on a level surface and engage the parking brake. Disconnect the negative terminal of the vehicle's battery.
2. **Remove Factory Bumper:** Carefully remove the existing rear bumper according to your vehicle's service manual. Disconnect any wiring for lights or sensors.
3. **Assemble New Bumper:** Attach any sub-components to the new bumper as instructed in the detailed installation guide (if provided separately). This may include the LED pod lights and D-ring shackles.
4. **Mount New Bumper:** Align the AUTOFREE Rear Bumper with the factory mounting points on the vehicle frame. Secure it using the provided hardware. Ensure all bolts are tightened to the manufacturer's specifications.
5. **Connect Wiring:** Reconnect any wiring for parking sensors and connect the included LED pod lights. Ensure all connections are secure and properly insulated.
6. **Final Checks:** Reconnect the vehicle battery. Test all lights and sensors to ensure proper operation.

Note: A detailed step-by-step installation video or manual may be available online. Refer to these resources for visual guidance.

INSTALLATION EFFECT



2019-2024 RAM 1500
(Excluding Classic)

Image: The AUTOFREE Rear Bumper (New Design 102 Style) installed on a 2019-2024 RAM 1500, demonstrating the final appearance.

Work With Factory Trailer



Image: The rear bumper is designed to work with the factory trailer hitch.

6. OPERATING

This bumper enhances your vehicle's utility and appearance. Utilize its features as follows:

- **Side Steps:** Use the integrated side steps for easier and safer access to the truck bed. The non-slip design provides secure footing.
- **D-Ring Shackles:** The included D-ring shackles can be used for vehicle recovery operations. Ensure proper recovery techniques are followed and that the shackles are securely fastened before use.
- **LED Pod Lights:** The included 4-inch LED pod lights can be wired to your vehicle's reverse lights or to a separate switch for supplemental rear lighting.
- **Parking Sensors:** The bumper maintains the functionality of your factory parking sensors. Ensure sensors are clean and unobstructed for accurate readings.

Integrated Step

Integrated Steps For Easy Access To Bed



Image: Demonstration of a person utilizing the integrated side step for convenient access to the truck bed.

7. MAINTENANCE

To ensure the longevity and appearance of your AUTOFREE Rear Bumper, follow these maintenance guidelines:

- **Regular Cleaning:** Wash the bumper regularly with mild soap and water to remove dirt, salt, and other debris. Avoid abrasive cleaners or harsh chemicals that could damage the powder coat finish.
- **Inspect Hardware:** Periodically check all mounting bolts and hardware for tightness. Re-tighten as necessary to prevent loosening due to vibrations.
- **Inspect Finish:** Inspect the powder coat finish for any chips or scratches. Touch up any damage promptly to prevent rust and corrosion.
- **Sensor and Light Check:** Ensure parking sensors are clean and free from obstructions. Verify that LED pod lights are functioning correctly.

8. TROUBLESHOOTING

If you encounter any issues with your AUTOFREE Rear Bumper, consider the following:

- **Loose Bumper:** If the bumper feels loose, check all mounting bolts and ensure they are securely tightened.
- **Parking Sensor Malfunction:** Ensure sensors are clean and free of mud, ice, or debris. Verify that all sensor wiring connections are secure.
- **LED Pod Lights Not Working:** Check wiring connections for the LED lights. Ensure they are properly connected to a power source and ground. Verify that the light units themselves are not damaged.
- **Unusual Noises:** Inspect the bumper and surrounding areas for any loose components or contact points that might be causing noise.

For issues not resolved by these steps, contact AUTOFREE customer support.

9. SPECIFICATIONS

Specification	Detail
Model Number	NRM03B102-BX
Material	Q235A Steel
Exterior Finish	Powder Coated Black
Auto Part Position	Rear
Product Weight	86.42 LB (39.2 kg)
Product Dimensions (L x W x H)	195 cm x 46.51 cm x 27.51 cm (76.9 x 18.3 x 10.8 inches)
Installation Type	Bolt-On (No cutting or drilling required)

10. WARRANTY AND SUPPORT

AUTOFREE provides the following coverage for this product:

- **Return/Replacement Policy:** 30-day return or replacement policy for incompatibility or defects.
- **Limited Warranty:** 12-month limited warranty for product malfunction.

For warranty claims, technical assistance, or any other inquiries, please contact AUTOFREE customer support through your purchase platform or the official AUTOFREE website.