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VNN VN0012

VNN Adjustable Drop Hitch Instruction Manual

Model: VN0012 | Brand: VNN

1. Introduction

The VNN Adjustable Drop Hitch (Model VN0012) is a robust, dual-ball trailer hitch designed for vehicles with a 2-inch receiver. It features an adjustable drop/rise of up to 6 inches, an integrated anti-rattle system, and anti-theft locking mechanisms to ensure secure and stable towing. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your VNN Adjustable Drop Hitch.



Image 1: VNN Adjustable Drop Hitch components including the main hitch body, dual ball, anti-theft lock, and anti-rattle adjustment tool.

2. Product Features

- **Anti-theft Design:** Equipped with a locking system that includes single and double pin locks, providing enhanced security. Two keys are supplied.
- **Anti-Rattle System:** Features one iron pad and three rubber pads to minimize rattling and vibration during towing, ensuring a more stable connection.
- **Durable Construction:** Manufactured from heavy-duty aluminum with corrosion-resistant, powder-coated surfaces for long-lasting performance and safety.
- **Adjustable Height:** Offers a maximum drop or rise of 6 inches, allowing for precise leveling of various trailers.
- **Dual-Ball Design:** Includes both 2-inch and 2-5/16-inch trailer balls for versatile towing applications.
- **High Towing Capacity:** Rated for a Gross Trailer Weight (GTW) of up to 15,000 lbs.

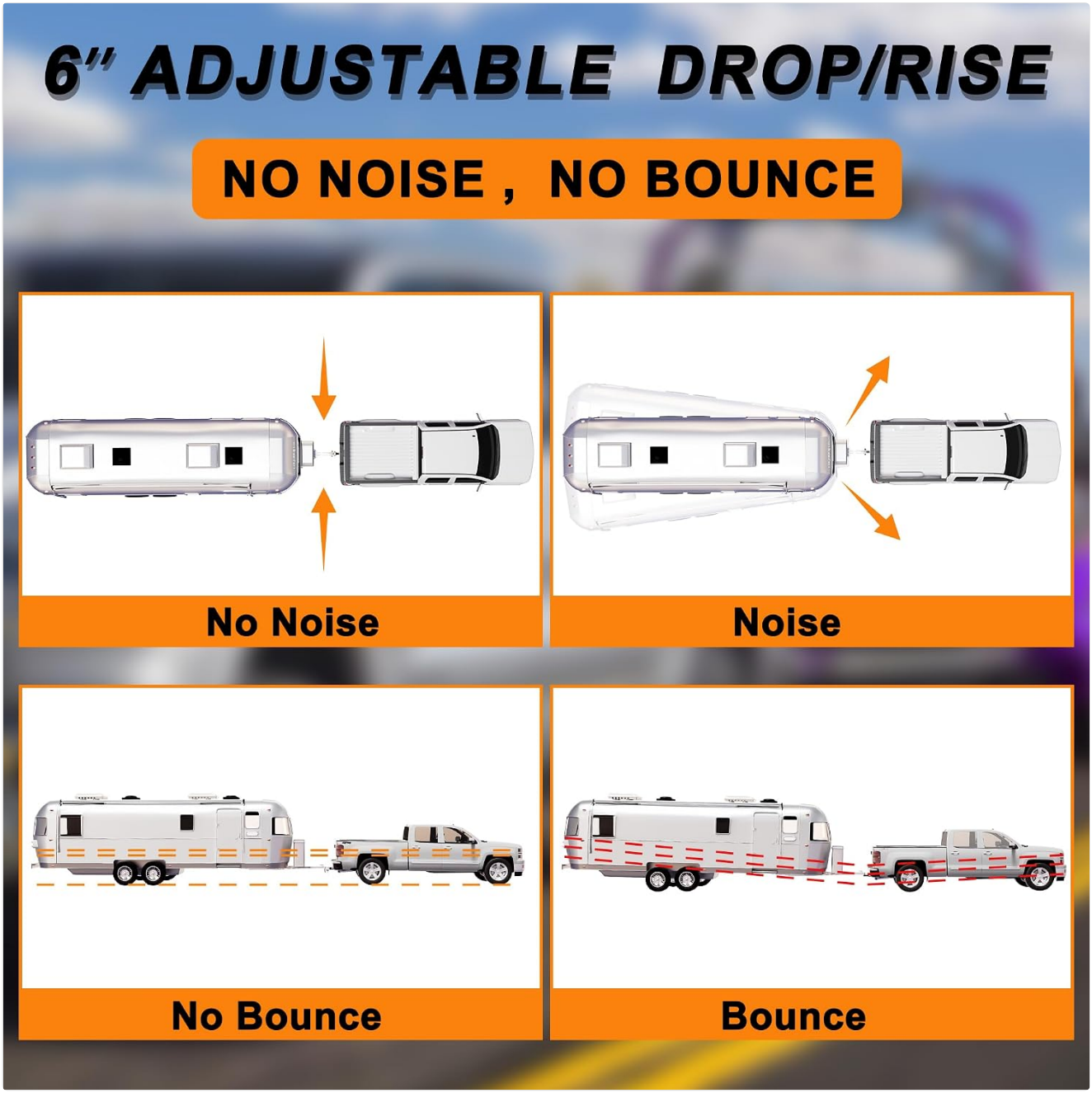


Image 2: Visual representation of stable towing, demonstrating how the hitch design helps prevent noise and bounce.

3. Package Contents

Please verify that all the following components are included in your package:

- 1 x VNN Adjustable Drop Hitch Solid Shank
- 1 x Dual Ball Mount (2" and 2-5/16" balls)
- 2 x Anti-theft Locks
- 2 x Keys for Locks
- 1 x Hitch Pin Clip
- 1 x Alen Wrench (for anti-rattle adjustment)
- 3 x Rubber Silencer Pads
- 1 x Metal Pad



Image 3: An overview of the VNN Adjustable Drop Hitch and its included accessories.

4. Specifications

Specification	Detail
Brand	VNN
Model Number	VN0012 (also VN12)
Receiver Size	2 Inch
Drop/Rise Adjustment	Up to 6 Inches
Ball Sizes	2" and 2-5/16"
Gross Trailer Weight (GTW)	15,000 lbs
Material	Aluminum
Finish Type	Powder Coated
Color	Black
Item Weight	22.3 pounds
Product Dimensions	15.16 x 14.57 x 6.69 inches

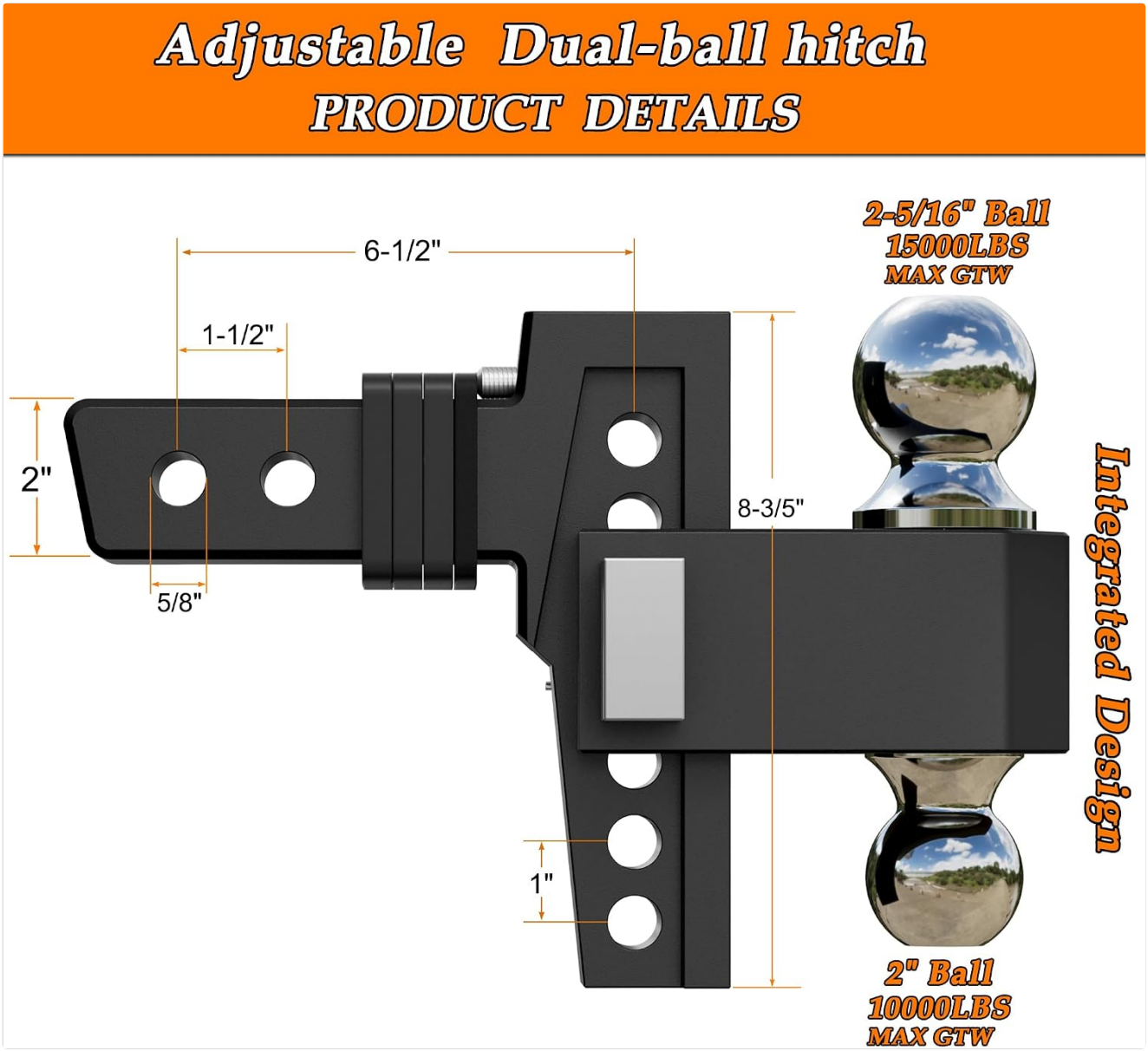


Image 4: Technical drawing showing key dimensions and weight capacities for the 2-inch and 2-5/16-inch balls.

5. Setup Instructions

1. **Insert Shank:** Slide the solid shank of the hitch into your vehicle's 2-inch receiver tube. Ensure it is fully inserted until the pin holes align.
2. **Secure Shank:** Insert the provided hitch pin through the aligned holes in the receiver and the hitch shank. Secure it with the clip. For added security, use one of the anti-theft locks provided.
3. **Attach Ball Mount:** Slide the dual-ball mount into the vertical channel of the hitch shank.
4. **Adjust Height:** Position the ball mount at the desired height to ensure your trailer is level when connected. Align the pin holes.
5. **Install Anti-Rattle System:** Place the metal pad and rubber silencer pads between the ball mount and the hitch shank, as well as between the shank and the receiver, to fill any gaps. Use the Alen wrench to tighten the built-in compression screw on the hitch body. This presses against the shank, reducing movement and rattling.
6. **Lock Ball Mount:** Insert the second anti-theft lock through the ball mount and hitch shank to secure the height adjustment.



Image 5: Illustration of the anti-rattle system, detailing the placement of rubber and metal pads and the tightening of the compression screw.

6. Operating Instructions

1. **Select Ball Size:** Choose the appropriate ball size (2" or 2-5/16") on the dual-ball mount that matches your trailer's coupler.
2. **Connect Trailer:** Carefully back your vehicle up to the trailer. Lower the trailer coupler onto the selected hitch ball. Ensure the coupler is fully seated and locked onto the ball.
3. **Secure Safety Chains:** Attach the trailer's safety chains to your vehicle's hitch chain loops. Cross the chains under the coupler to create a cradle in case of detachment.
4. **Connect Wiring:** Plug in the trailer's electrical connector to your vehicle's receptacle. Test all trailer lights (running lights, brake lights, turn signals).
5. **Final Check:** Before driving, double-check all connections: hitch pin, ball mount lock, coupler latch, safety chains, and electrical wiring. Ensure the trailer is level and within the hitch's weight capacity (15,000 lbs GTW).



Image 6: A user demonstrating the ease of connecting a trailer to the VNN Adjustable Drop Hitch.

7. Maintenance

- **Regular Inspection:** Periodically inspect the hitch for any signs of wear, cracks, bends, or corrosion, especially before and after long trips.
- **Cleanliness:** Keep the hitch clean from dirt, mud, and road salt. Wash with mild soap and water, then dry thoroughly.
- **Lubrication:** Apply a thin layer of grease to the hitch balls and the inside of the receiver tube to prevent rust and ensure smooth operation.
- **Anti-Rattle System:** Check the condition of the rubber and metal pads. Replace them if they show significant wear or damage. Ensure the compression screw is adequately tightened to prevent rattling.
- **Lock Maintenance:** Lubricate the lock mechanisms periodically with a graphite-based lubricant to ensure smooth operation and prevent seizing.

8. Troubleshooting

- **Hitch Rattling:** If you experience excessive rattling, ensure the anti-rattle pads are correctly installed and the

compression screw is tightened using the Alen wrench. Check for any loose components.

- **Difficulty Inserting/Removing Shank:** Ensure the receiver tube is clean and free of debris or rust. Apply a small amount of grease to the shank before insertion.
- **Locks Sticking:** If the anti-theft locks are difficult to operate, apply a small amount of graphite lubricant into the keyhole and work the key in and out several times.
- **Trailer Not Level:** Adjust the height of the ball mount within the hitch shank to achieve a level towing position for your specific trailer and vehicle combination.

9. Warranty and Support

The VNN Adjustable Drop Hitch comes with a **One Year Warranty** from the date of purchase, covering manufacturing defects. For warranty claims, technical assistance, or any questions regarding your product, please contact VNN customer support. Our professional service team is available to address your concerns and provide solutions.
Please retain your proof of purchase for warranty validation.

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