

ECOTRIC VC-LYAM-317-1

ECOTRIC Universal Fifth Wheel Gooseneck Hitch Adapter Plate Instruction Manual

Model: VC-LYAM-317-1

1. PRODUCT OVERVIEW

The ECOTRIC Universal Fifth Wheel Gooseneck Hitch Adapter Plate is designed to convert existing 5th wheel base rails in your pickup truck bed into a gooseneck towing system. This adapter plate allows for the towing of gooseneck trailers, maximizing the utility of your truck for various heavy-duty towing needs.

It features a 2-5/16 inch heat-treated ball, offset by 2 inches to accommodate both 6-foot and 8-foot truck beds. The plate is constructed from alloy steel and finished with a durable black powder coat for reliable weather resistance.

2. SETUP AND INSTALLATION

This gooseneck hitch adapter is designed for easy installation and removal, allowing full access to your truck bed when not in use. It utilizes the same base rails (e.g., #30035) as standard fifth-wheel hitches.

2.1 Package Contents

Before beginning installation, ensure all components are present:

- 1x Universal Fifth Wheel Gooseneck Hitch Adapter Plate
- 2-5/16 inch Gooseneck Ball (pre-installed on plate)
- 4x Pins for installation
- Necessary hardware (nuts, bolts, washers, cotter pins)

1x Universal Fifth Wheel Gooseneck Hitch Adapter Plate



Necessary hardware are included



**PACKAGE
INCLUDED**



Figure 2.1: Included components for the ECOTRIC Gooseneck Hitch Adapter Plate.

2.2 Pre-Installation Checks

Verify the dimensions of your truck bed's existing 5th wheel rails to ensure compatibility. The adapter plate is designed to fit standard 5th wheel rails.

Accommodate 6 & 8 foot truck beds



PRODUCT SIZE

Figure 2.2: Product dimensions for fitment verification.

• Mounting Tab Measurements:

- Tab dimensions: 15/32" x 1-1/2"
- Distance on center between tabs (left to right): 10"
- Distance between tabs front to back (opposite rails): 21-15/32"
- Distance from outside to outside of tabs front to back (opposite rails): 22-13/32"

2.3 Installation Steps

1. Position the gooseneck hitch adapter plate over your truck's existing 5th wheel base rails. Ensure the plate is oriented correctly, with the ball offset towards the rear of the truck bed to accommodate 6 & 8 ft. truck beds.
2. Align the mounting tabs of the adapter plate with the slots in your 5th wheel base rails.
3. Insert the provided pins through the aligned holes to secure the adapter plate to the rails.
4. Secure the pins with the cotter pins or clips provided.

5. Verify that the adapter plate is firmly seated and does not exhibit excessive movement.



Figure 2.3: Adapter plate designed to drop into existing 5th wheel base rails.



Figure 2.4: Illustration of easy installation in a truck bed.

3. OPERATING INSTRUCTIONS

Once the ECOTRIC Gooseneck Hitch Adapter Plate is securely installed, you can connect your gooseneck trailer.

3.1 Connecting a Gooseneck Trailer

1. Ensure the gooseneck ball is clean and lightly greased for smooth operation and to prevent wear.
2. Carefully back your truck towards the gooseneck trailer, aligning the trailer's coupler directly over the 2-5/16 inch gooseneck ball.
3. Lower the trailer's coupler onto the gooseneck ball, ensuring it locks securely into place. Follow your trailer manufacturer's instructions for proper coupling.
4. Attach the trailer's safety chains to the raised safety chain locations on the adapter plate. Ensure chains are crossed under the gooseneck tongue.
5. Connect the trailer's electrical wiring harness to your truck's receptacle.
6. Perform a final check of all connections, lights, and brakes before driving.

PRODUCT FEATURE



**Weight Carrying:
6,250 lbs. (TW/GTW)**



**Weight Distributing:
25,000 lbs.(TW/GTW)**



Figure 3.1: Product feature highlighting weight capacities.

PRODUCT DETAILS



2-5/16" heat treated ball. Ball is offset 2" to accommodate 6 & 8 ft. truck beds.



Center of the ball is 10-1/2" from the end of the plate and 14-1/2" from the other. Curve in plate provides a 2" rise

Figure 3.2: Close-up of the gooseneck ball and plate details.

3.2 Weight Capacities

Adhere strictly to the following weight limits to ensure safe towing:

- **Weight Carrying (TW/GTW):** 6,250 lbs.
- **Weight Distributing (TW/GTW):** 30,000 lbs.

TW = Tongue Weight, GTW = Gross Trailer Weight

Never exceed the lowest weight rating of any component in your towing system, including your truck's towing capacity, the hitch, and the trailer itself.

4. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your ECOTRIC Gooseneck Hitch Adapter Plate.

- **Cleaning:** The adapter plate is protected by a durable black powder coat. Clean the plate periodically with mild soap

and water to remove dirt, salt, and road grime. Avoid abrasive cleaners that could damage the finish.

- **Lubrication:** Apply a thin layer of grease to the gooseneck ball before each use to reduce friction and wear.
- **Inspection:** Regularly inspect the adapter plate, pins, and all hardware for signs of wear, damage, cracks, or corrosion. Ensure all connections are tight and secure. Replace any worn or damaged components immediately.
- **Storage:** When not in use, the adapter plate can be easily removed for full access to the truck bed. Store it in a dry place to prevent corrosion.

5. TROUBLESHOOTING

This section addresses common issues you might encounter during installation or use.

Problem	Possible Cause	Solution
Adapter plate does not fit into existing 5th wheel rails.	• Incorrect rail spacing. • Manufacturing tolerance variations. • Debris in rail slots.	• Double-check your rail measurements against the product specifications (Figure 2.2). • Clear any debris from the rail slots. • In some cases, slight adjustments or "persuasion" (e.g., gentle tapping with a rubber mallet) may be required to align the tabs. If significant force is needed, re-verify measurements and compatibility. Do not force components if they do not align reasonably.
Pins are difficult to insert or remove.	• Misalignment of holes. • Corrosion or dirt in pin holes.	• Ensure the adapter plate is perfectly aligned with the rails. • Clean pin holes and pins. Apply a light lubricant if necessary.
Excessive movement or rattling after installation.	• Pins not fully secured. • Incorrectly installed. • Worn components.	• Ensure all pins are fully inserted and secured with cotter pins/clips. • Re-check installation steps. • Inspect for any worn parts that may need replacement.

6. PRODUCT SPECIFICATIONS

Specification	Detail
Brand	ECOTRIC
Model Number	VC-LYAM-317-1 (OEM Part Number: ET-029-Z2)
Vehicle Service Type	Pickup Trucks
Material	Alloy Steel
Finish Type	Powder Coated (Black)

Specification	Detail
Gooseneck Ball Size	2-5/16 inches (heat treated)
Ball Offset	2 inches (to accommodate 6 & 8 ft. truck beds)
Weight Carrying Capacity (TW/GTW)	6,250 lbs.
Weight Distributing Capacity (TW/GTW)	30,000 lbs.
Product Dimensions	25.39 x 12.99 x 7.87 inches
Item Weight	31.4 pounds

7. WARRANTY INFORMATION

Specific warranty details for the ECOTRIC Universal Fifth Wheel Gooseneck Hitch Adapter Plate are not provided in this manual. For information regarding product warranty, please contact ECOTRIC directly or refer to the product packaging and purchase documentation.

8. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report an issue with your ECOTRIC Gooseneck Hitch Adapter Plate, please contact ECOTRIC customer support. Refer to the official ECOTRIC website or your purchase documentation for contact information.

You can also visit the [ECOTRIC Store on Amazon](#) for more product information and support resources.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question