

Camco 48903-A

Camco Eaz-Lift TR3 400lb Weight Distribution Hitch Kit User Manual

Model: 48903-A | Brand: Camco

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective installation, operation, and maintenance of your Camco Eaz-Lift TR3 400lb Weight Distribution Hitch Kit. The Eaz-Lift TR3 is engineered to enhance your towing experience by providing superior weight distribution and consistent sway control, contributing to a more stable and comfortable journey.

The system is designed to distribute the tongue weight of your trailer evenly across the axles of both your tow vehicle and trailer, reducing sag in the tow vehicle's rear and improving steering and braking control. Its integrated sway control mechanism offers constant resistance to trailer sway, which can be adjusted or disengaged as needed.

2. PRODUCT COMPONENTS

The Camco Eaz-Lift TR3 400lb Weight Distribution Hitch Kit includes the following main components:

- Hitch Head Assembly with Pre-Installed 2-5/16-inch Hitch Ball
- Weight Distribution Spring Bars (400lb rated)
- Hookup Brackets (for trailer frame attachment)
- Sway Control Mechanism (integrated into hitch head)
- Hardware and Pins for assembly

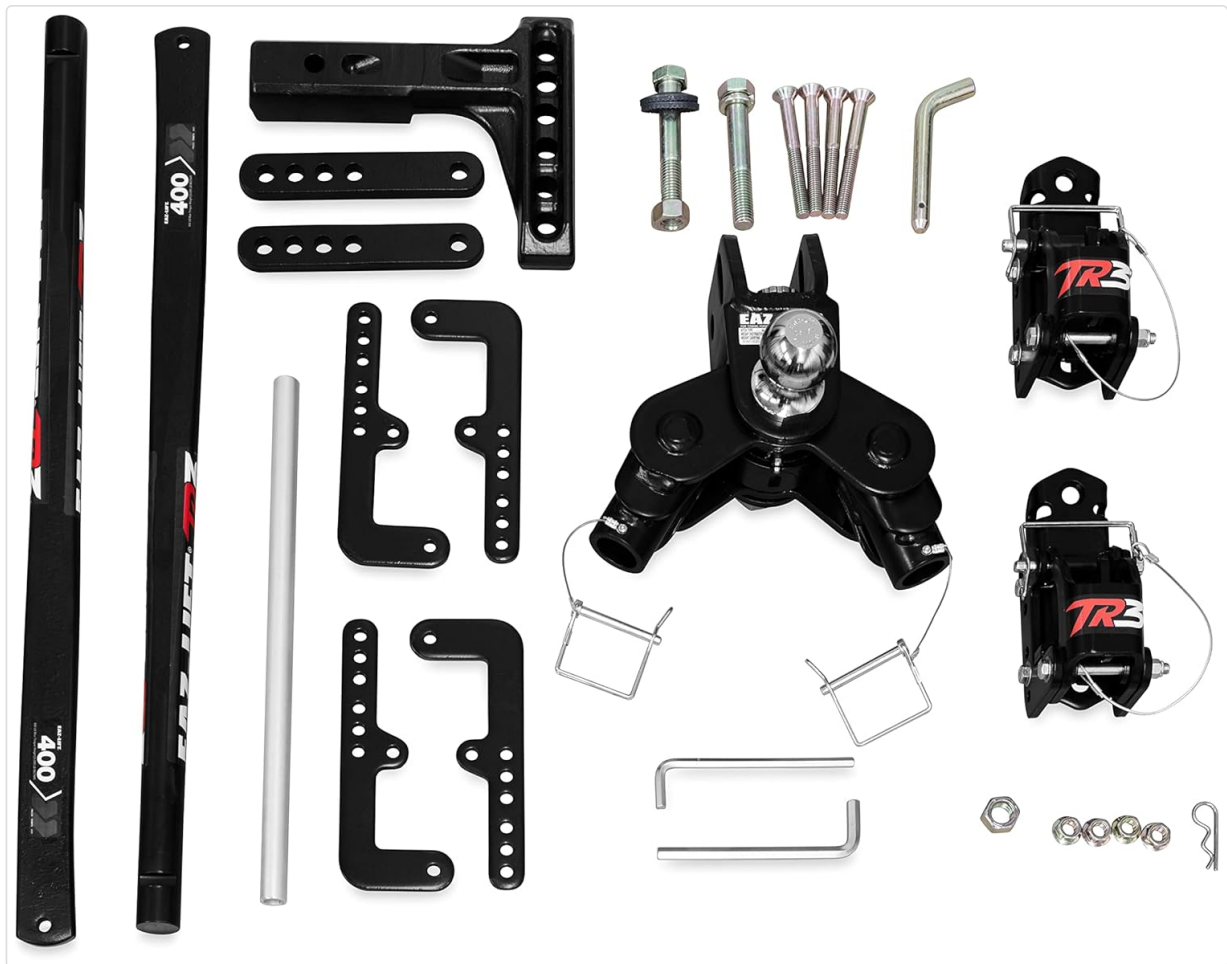


Figure 2.1: All components of the Camco Eaz-Lift TR3 400lb Weight Distribution Hitch Kit. This image displays the hitch head, spring bars, hookup brackets, and various pins and bolts included in the kit.

3. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your weight distribution hitch. It is recommended to perform the initial setup on a level surface with the trailer loaded as it would be for travel.

3.1 Pre-Installation Checks

- Ensure your tow vehicle and trailer are compatible with the hitch's weight ratings (600lb max tongue weight, 6,000lb max GTWR for this 400lb kit).
- Verify that your tow vehicle's receiver hitch is rated for weight distribution.
- Confirm the trailer has an A-frame coupler configuration.

3.2 Mounting the Hitch Head

The hitch ball is pre-installed on the hitch head for convenience. Insert the hitch head assembly into your tow vehicle's receiver and secure it with the appropriate hitch pin and clip.



Figure 3.1: The hitch head assembly with the pre-installed 2-5/16-inch hitch ball, ready for insertion into the tow vehicle's receiver. Securing pins are shown.

3.3 Attaching Spring Bars and Hookup Brackets

1. Attach the spring bars to the hitch head. The TR3 features a side-loading design for easier installation.
2. Position the hookup brackets on the trailer frame. These brackets are adjustable and can be located to avoid obstructions such as propane tanks or battery mounts. Secure them firmly to the trailer frame.
3. Connect the spring bars to the hookup brackets using the provided pins and clips.



Figure 3.2: A detailed view of the hookup bracket attached to the trailer frame, showing the connection point for the spring bar and the securing pin.



Figure 3.3: An individual kneeling to make adjustments to the spring bar connection at the trailer frame, demonstrating the setup process.

3.4 Initial Setup and Leveling

After connecting the spring bars, use a leverage bar (if necessary) to lift the spring bars into the hookup brackets. Adjust the height of the hitch head and the tension on the spring bars until the tow vehicle and trailer are level. Refer to your tow vehicle and trailer manuals for specific leveling guidelines.



Figure 3.4: An individual using a leverage bar to secure a spring bar into its hookup bracket, illustrating the force required for proper engagement.

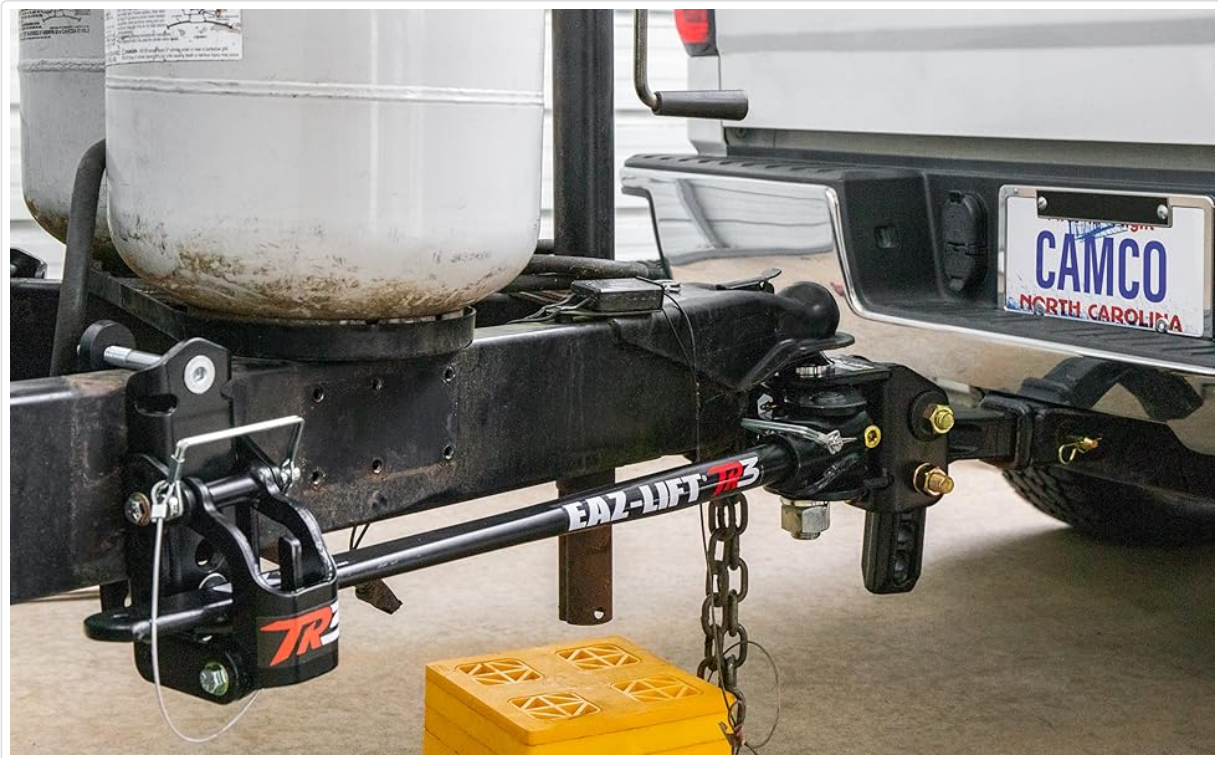


Figure 3.5: The Camco Eaz-Lift TR3 weight distribution hitch fully installed, connecting a truck to a travel trailer, demonstrating a properly leveled setup.

4. OPERATING INSTRUCTIONS

The Eaz-Lift TR3 is designed for ease of use and consistent performance during towing.

4.1 Consistent Sway Control

The TR3 features patented Consistent Sway Control technology, providing constant sway resistance. This resistance can be adjusted by turning a bolt on the hitch head. The system operates independently of tongue weight.

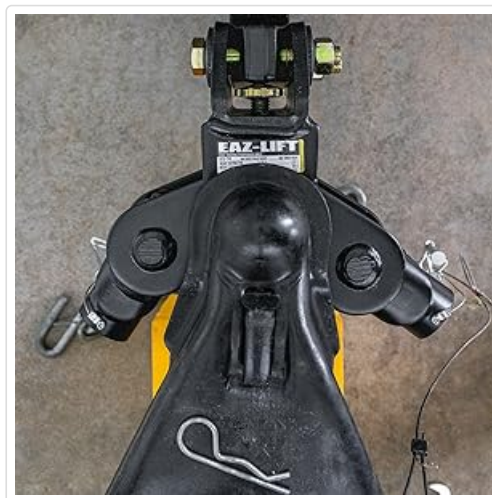


Figure 4.1: A close-up view of the integrated sway control mechanism on the hitch head, highlighting the adjustment bolt.

4.2 Engaging and Disengaging Sway Control

- For normal highway towing, the sway control should be engaged. It automatically engages past 5 degrees of movement.
- For low-speed driving, navigating icy or slippery conditions, or when backing up, the sway control can

be disengaged to prevent interference. This allows for seamless operation without needing to remove components.

4.3 Adjusting Spring Bar Pre-Load

The TR3 allows for small spring bar pre-load adjustments without altering the ball mount angle. This feature is useful for accommodating varying tongue weights, such as when transporting ATVs or UTVs in your trailer.

4.4 Quiet Towing

The hitch incorporates brake pad material on the center spindle, which eliminates the noise often associated with traditional hitches, providing a quieter towing experience.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Camco Eaz-Lift TR3 hitch.

- **Inspection:** Periodically inspect all components for signs of wear, damage, or corrosion. Pay close attention to the hitch ball, spring bars, hookup brackets, and all pins and bolts.
- **Lubrication:** Keep the hitch ball lubricated to reduce friction and wear. Consult the manufacturer's recommendations for other lubrication points, especially for the precision reamed bearings that allow smooth rotation.
- **Sway Control Mechanism:** The durable clamping design of the TR3's sway control is designed to compensate for wear, maintaining proper resistance. However, regular inspection of this mechanism is advised.
- **Cleaning:** Clean the hitch components regularly, especially after exposure to dirt, salt, or harsh weather conditions, to prevent corrosion.

6. TROUBLESHOOTING

If you encounter issues with your Eaz-Lift TR3 hitch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Excessive trailer sway	Sway control not properly engaged or adjusted; improper weight distribution.	Ensure sway control is engaged and adjusted for sufficient resistance. Re-check weight distribution setup and adjust spring bar tension.
Tow vehicle rear sag or uneven ride	Insufficient spring bar tension; incorrect hitch head height.	Increase spring bar tension by adjusting hookup brackets. Verify hitch head height and angle are set correctly for level towing.
Hitch noise (clunking/creaking)	Lack of lubrication; loose components.	Lubricate the hitch ball and other moving parts as per maintenance guidelines. Check all bolts and pins for tightness.
Hitch fits loosely in receiver (bucking/movement)	Receiver hitch tolerance; worn components.	Consider using an anti-rattle hitch tightener. Inspect hitch shank and receiver for excessive wear.

Problem	Possible Cause	Solution
Adjuster mechanism stripped	Over-tightening; manufacturing defect.	Contact Camco customer support for replacement parts or assistance. Avoid over-tightening adjustment bolts.

7. SPECIFICATIONS

Feature	Specification
Brand	Camco
Model Number	48903-A
Item Weight	105 Pounds
Product Dimensions	12 x 36 x 13 inches
Vehicle Service Type	Trailer
Material	Blend (Powder Coated Finish)
Max Tongue Weight Rating	600 Pounds
Max Gross Trailer Weight Rating (GTWR)	6,000 Pounds
Hitch Ball Size	2-5/16 inch (Pre-Installed)
Sway Control	Patented Consistent Sway Control (Adjustable, On/Off feature)
Spring Bar Loading	Side-loading
Coupler Compatibility	Top and Bottom-mount coupler-style trailers (A-frame configurations)
UPC	014717489034

8. WARRANTY INFORMATION

Camco products are manufactured to high-quality standards. For specific warranty details regarding your Eaz-Lift TR3 Weight Distribution Hitch Kit, please refer to the warranty card included with your product packaging or visit the official Camco website. Keep your proof of purchase for any warranty claims.

9. CUSTOMER SUPPORT

Should you require assistance with installation, operation, troubleshooting, or have questions about your Camco Eaz-Lift TR3 Weight Distribution Hitch Kit, please contact Camco customer support. Contact information can typically be found on the product packaging or on the official Camco website (www.camco.net).

