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› Sriya 800921 Brake Cage Bolt Instruction Manual

Sriya 800921

Sriya 800921 Brake Cage Bolt Instruction Manual

Model: 800921

1. INTRODUCTION

This manual provides essential information for the proper use, installation, and maintenance of the Sriya 800921 Brake Cage Bolt. This component is designed for manually releasing spring brakes on semi-trucks and trailers equipped with air brakes. Please read these instructions carefully before use to ensure safe and effective operation.

The Sriya 800921 Brake Cage Bolt is a metal release bolt specifically engineered for most semi-truck spring brakes, facilitating brake maintenance or vehicle movement when air pressure is lost or for service procedures.

2. PRODUCT OVERVIEW

The brake cage bolt is a critical component for the manual release of spring brakes. It features a robust metal construction designed for durability and reliable performance in demanding automotive environments.

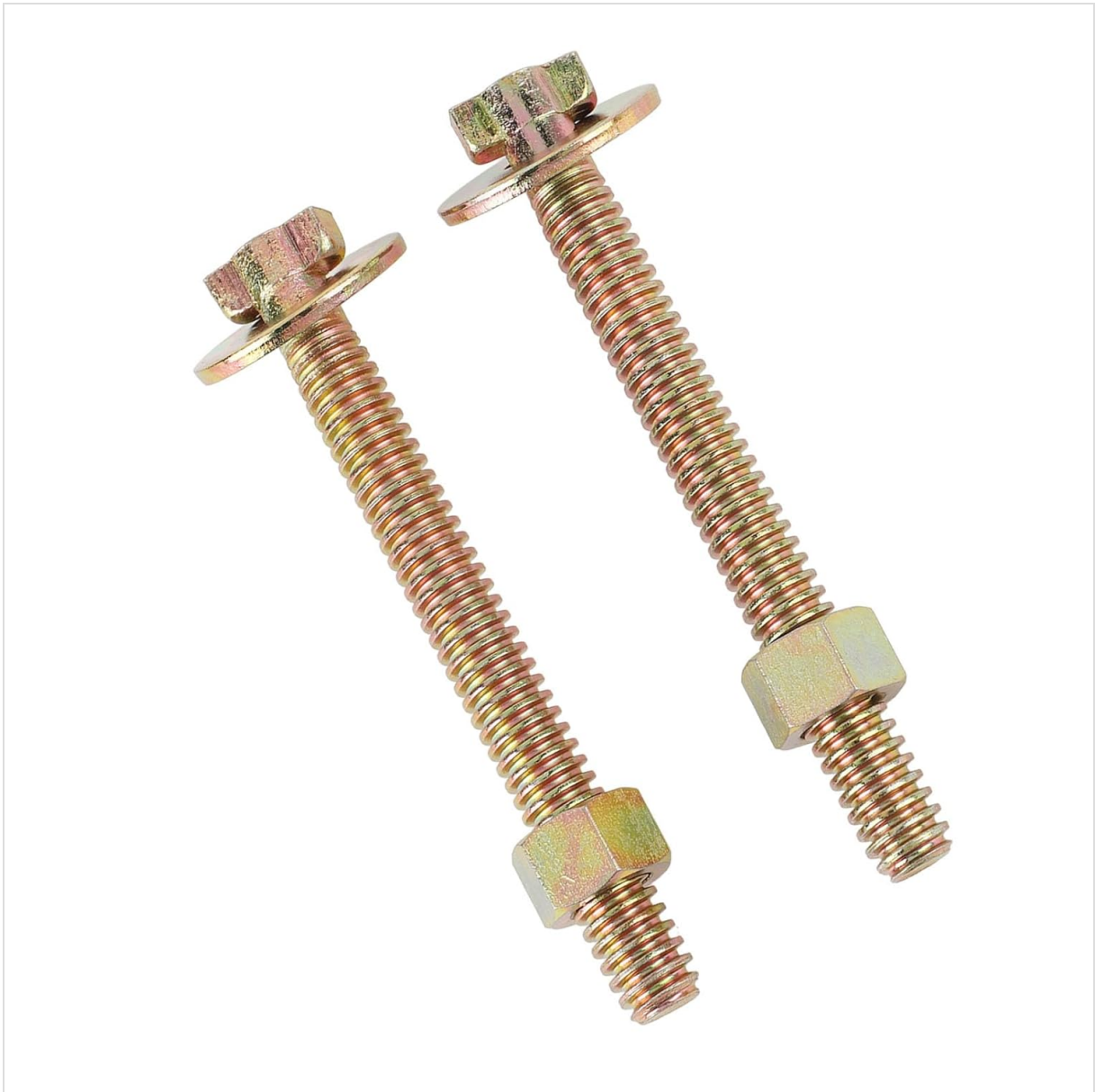


Figure 2.1: Two Sriya 800921 Brake Cage Bolts. These bolts are used to manually release spring brakes on semi-trucks and trailers.

Key Features:

- **OE Number Compatibility:** Matches OE numbers 800921, 179.4019, 460-9007003, 9007003, E11988, E-9114, S-17973.
- **Broad Fitment:** Applicable for most spring brakes on semi-trucks and trailers.
- **Convenient Usage:** Designed for easy manual release of spring brakes, aiding in maintenance and vehicle movement.
- **Standard Dimensions:** Features a 1/2 inch thread and an overall length of 4-13/16 inches.
- **Durable Construction:** Made from metal for long-lasting performance.

3. SPECIFICATIONS

Attribute	Value
Item Type	Brake Cage Bolt
OE Numbers	800921, 179.4019, 460-9007003, 9007003, E11988, E-9114, S-17973
Material	Metal
Thread Size	1/2 inch
Overall Length	4-13/16 inches
Fitment	Most spring brakes and semi-trucks
Quantity	2 Pcs per package

4. SETUP AND INSTALLATION

The brake cage bolt is used to manually release the spring brake. This procedure is typically performed when there is a loss of air pressure, or during maintenance to move a vehicle. Always ensure the vehicle is safely supported and secured before attempting any brake system work.

Safety Precautions:

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is on a level surface and properly chocked to prevent unintended movement.
- Consult the vehicle's service manual for specific brake chamber procedures.
- Never work under a vehicle supported only by a jack. Use jack stands.

Installation Steps:

1. **Locate the Brake Chamber:** Identify the spring brake chamber on the semi-truck or trailer.
2. **Identify the Release Hole:** Most spring brake chambers have a designated hole for inserting a cage bolt. This hole is typically covered by a rubber plug or cap.
3. **Insert the Cage Bolt:** Remove the plug/cap and insert the Sriya 800921 Brake Cage Bolt into the release hole.
4. **Thread and Tighten:** Carefully thread the bolt into the internal mechanism of the spring brake chamber. Tighten the bolt until the spring brake is fully compressed and released. Do not overtighten.
5. **Secure the Bolt:** Once the brake is released, the cage bolt can be fixed on the side of the brake chamber, if applicable, for repeated use or until the brake system is repaired.

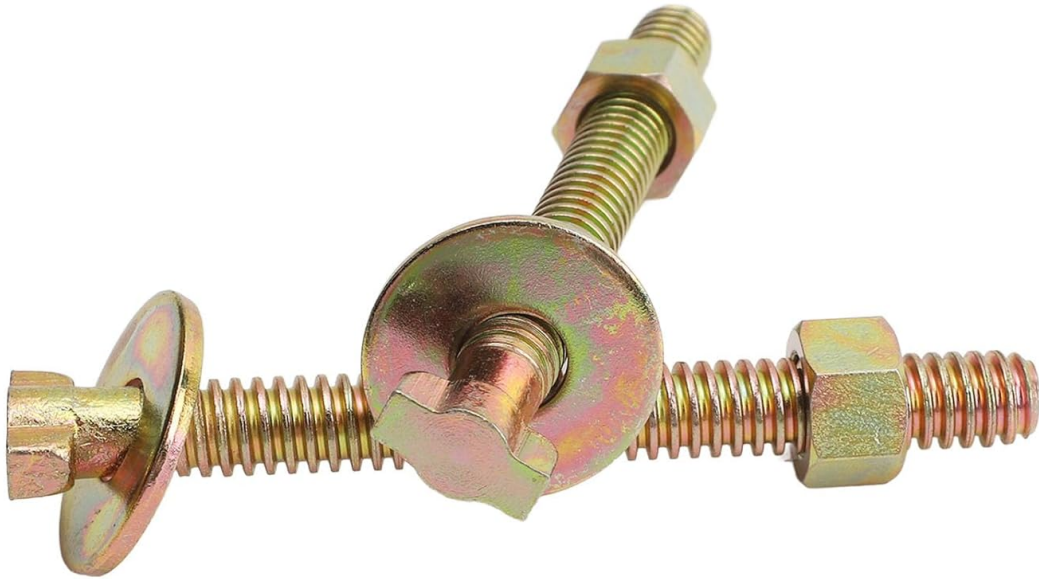


Figure 4.1: Detail of the cage bolt head and washer. The square head allows for easy gripping and turning.

5. OPERATING INSTRUCTIONS

The primary function of the Sriya 800921 Brake Cage Bolt is to manually release the spring brake. This is essential when the air brake system loses pressure, preventing the vehicle from moving. By caging the spring brake, the brake shoes are retracted, allowing the wheels to turn freely.

Procedure for Manual Brake Release:

1. Ensure the vehicle is stable and secured.
2. Access the spring brake chamber.
3. Insert the cage bolt into the designated release port.
4. Turn the cage bolt clockwise (typically) using an appropriate wrench or tool until the spring brake is fully compressed and the brake is released. You will feel resistance as the spring compresses.
5. Once released, the vehicle can be moved. Remember to remove the cage bolt and restore the air brake system to proper working order before normal operation.

Note: The cage bolt is a temporary solution for moving a vehicle with a disabled air brake system. It is not intended for permanent operation. Always repair the underlying air brake issue promptly.

6. MAINTENANCE

The Sriya 800921 Brake Cage Bolt is designed for durability. Regular inspection and proper storage will ensure its longevity and readiness for use.

General Maintenance:

- **Inspection:** Periodically inspect the bolt for signs of wear, corrosion, or damage to the threads.
- **Cleaning:** Keep the bolt clean and free from dirt, grease, and debris. Wipe it down after each use.
- **Lubrication:** A light coating of anti-seize compound or grease on the threads can prevent galling and ease insertion, especially in harsh environments.
- **Storage:** Store the cage bolt in a dry, clean place to prevent rust and damage.



Figure 6.1: Detail of the bolt's threads and nut. Proper maintenance of these components ensures smooth operation.

7. TROUBLESHOOTING

If you encounter issues while using the Sriya 800921 Brake Cage Bolt, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Bolt does not thread into the brake chamber.	Incorrect bolt size or damaged threads on the bolt/chamber.	Verify the OE number and dimensions. Inspect bolt threads for damage. If chamber threads are damaged, professional repair is required.
Brake does not release after tightening the bolt.	Bolt not fully engaged, internal brake chamber issue, or incorrect procedure.	Ensure the bolt is fully threaded and tightened. Re-check the vehicle's service manual for specific instructions. If the issue persists, the brake chamber may require professional inspection.
Bolt is difficult to turn.	Lack of lubrication, minor thread damage, or debris.	Apply a small amount of anti-seize or grease to the threads. Clean threads thoroughly. Do not force the bolt, as this can cause further damage.

8. WARRANTY AND SUPPORT

Warranty Information:

Specific warranty details for the Sriya 800921 Brake Cage Bolt are typically provided by the retailer or manufacturer at the time of purchase. Please retain your proof of purchase for any warranty claims. For detailed warranty terms and conditions, refer to the documentation included with your purchase or contact the seller directly.

Customer Support:

If you have any questions regarding the installation, operation, or maintenance of your Sriya 800921 Brake Cage Bolt, please contact your point of purchase or the manufacturer, Sriya, for assistance. Provide your product model number (800921) and purchase details when seeking support.