

The Trailer Parts Outlet 10EBDXSPRUNG7446865

Instruction Manual for The Trailer Parts Outlet Dexter 10K Trailer Axle

Model: 10EBDXSPRUNG7446865

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your The Trailer Parts Outlet Dexter 10,000 lb Electric Brake Trailer Axle. Please read this manual thoroughly before attempting any installation or maintenance procedures to ensure safety and optimal performance.

This axle is designed for heavy-duty trailer applications, featuring a 10,000 lb capacity, electric brakes, and an 8-lug bolt pattern. It comes fully assembled with springs and u-bolts for convenience.

2. SAFETY INFORMATION

WARNING: Improper installation or maintenance can lead to serious injury or equipment damage. Always follow safety guidelines and consult a qualified professional if unsure.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling the axle or performing any work.
- Ensure the trailer is properly supported and secured before beginning any work on the axle.
- Do not exceed the axle's stated weight capacity of 10,000 lbs.
- Verify all connections and fasteners are tightened to the manufacturer's specifications.
- This axle is not ABS compatible. Do not attempt to integrate with ABS systems.
- Keep hands and clothing clear of moving parts during installation and testing.

3. PRODUCT SPECIFICATIONS AND COMPONENTS

3.1 General Specifications

- **Capacity:** 10,000 lbs (10K)

- **Axle Type:** Dexter Electric Brake Trailer Axle
- **Hubface:** 74 inches
- **Spring Center:** 46 inches
- **Bolt Pattern:** 8x6.5
- **Axle Tube Diameter:** 5 inches
- **Approximate Weight:** 435 lbs
- **Assembly:** Fully assembled with springs and u-bolts
- **Suspension Type:** Underslung (spring seats welded on the bottom for lower ride height)
- **Recommended Springs:** Double eye springs for optimal usage
- **Construction:** High Strength Steel Axle Tube for even tire wear and improved highway experience
- **ABS Compatibility:** Not ABS compatible

3.2 Internal Components (Per Wheel End)

- **Bearing Kit (9k-10k Capacity):** Two sets included, each containing:
 - Outer Bearing
 - Inner Bearing
 - Outer Race
 - Inner Race
 - Unitized Oil Seal
- **Drum:** 10k Trailer Axle Drum - 8 lug Brake
- **Hub Cap:** 10k Trailer Axle Hub Cap - Oil Bath
- **Studs:** 10k Trailer Axle Studs - 5/8"
- **Brake:** 10k Trailer Axle Brake - 12 1/4" x 3 3/8" Electric



Figure 1: Fully assembled Dexter 10K Trailer Axle with electric brakes, springs, and u-bolts.



Figure 2: Close-up view of the electric brake assembly and spring seat on the Dexter 10K Trailer Axle.

4. SETUP AND INSTALLATION

The axle comes fully assembled, simplifying the installation process. After receiving the axle, you will need to install it onto your trailer frame, attach your suspension components (if not already integrated), and mount the tire and wheel assemblies.

4.1 Measuring Your Trailer Axle

Accurate measurements are crucial for proper fitment and performance. Refer to the diagram below for guidance on measuring hubface and spring center.

How to Measure Your Electric Brake Trailer Axle

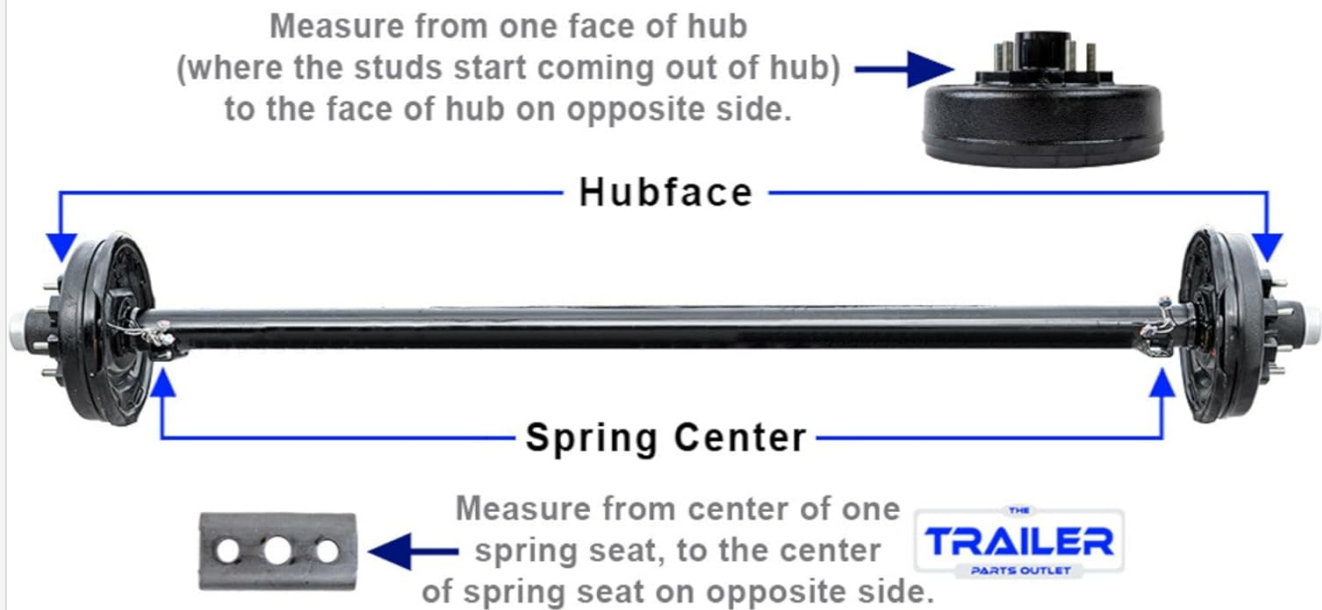


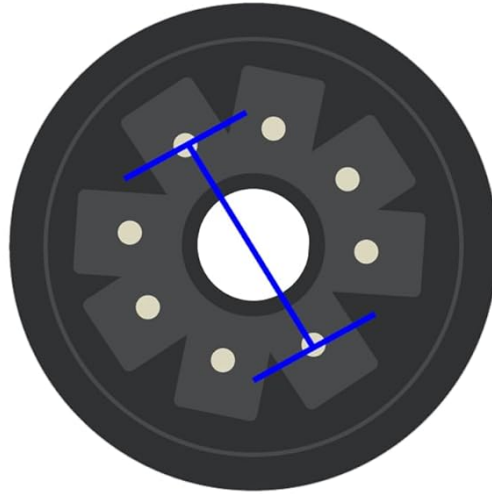
Figure 3: Instructions for measuring Hubface and Spring Center. Hubface is measured from the face of one hub to the face of the opposite hub. Spring Center is measured from the center of one spring seat to the center of the opposite spring seat.

- **Hubface Measurement:** Measure from the outer face of one hub (where the wheel studs emerge) to the outer face of the hub on the opposite side.
- **Spring Center Measurement:** Measure from the center of one spring seat to the center of the spring seat on the opposite side.

4.2 Bolt Pattern Verification

This axle features an 8x6.5 bolt pattern. Ensure your wheels are compatible with this pattern. The diagram below illustrates how to measure an 8-lug bolt pattern.

8 Lug Bolt Pattern Diagram



Step 1

PICK 2 BOLTS THAT ARE DIRECTLY ACROSS FROM EACH OTHER

Step 2

MEASURE FROM CENTER OF ONE TO THE CENTER OF THE SECOND

Figure 4: Diagram showing how to measure an 8-lug bolt pattern. Pick two bolts directly across from each other and measure from the center of one to the center of the second.

4.3 Axle Mounting

The axle is underslung, meaning the spring seats are welded to the bottom of the axle tube. This configuration allows for a lower trailer ride height. Ensure your trailer's suspension system is designed to accommodate this setup.

- Position the axle correctly under the trailer frame, aligning the spring seats with your trailer's leaf springs.
- Secure the axle to the leaf springs using the provided u-bolts and hardware. Tighten all nuts to the manufacturer's specified torque settings.
- Connect the electric brake wiring to your trailer's electrical system. Ensure proper polarity and secure connections.
- Install the wheel and tire assemblies onto the hubs, tightening lug nuts to the recommended torque.
- After initial installation and a short test drive, re-check all fasteners for proper torque.

5. OPERATION CONSIDERATIONS

While an axle does not have "operating" controls, proper usage of the trailer equipped with this axle is crucial for longevity and safety.

- **Load Distribution:** Always distribute the trailer load evenly to prevent excessive stress on the axle and tires.
- **Weight Capacity:** Never exceed the 10,000 lb weight capacity of the axle. Overloading can lead to structural failure and unsafe towing conditions.
- **Brake Functionality:** Regularly test the electric brakes to ensure they are functioning correctly. Adjust the brake controller as needed for smooth and effective braking.
- **Tire Pressure:** Maintain correct tire pressure as specified by the tire manufacturer. Incorrect pressure can lead to uneven tire wear and reduced stability.

6. MAINTENANCE

Regular maintenance is essential to ensure the long life and safe operation of your Dexter trailer axle.

- **Bearing Inspection and Lubrication:** Periodically inspect wheel bearings for wear and proper lubrication. The axle uses an oil bath hub cap; ensure oil levels are correct and seals are intact. Replace bearings and seals as necessary.
- **Brake Inspection:** Inspect brake shoes, drums, and wiring annually or every 12,000 miles, whichever comes first. Check for wear, damage, and proper adjustment.
- **Axle Alignment:** Check axle alignment periodically, especially after hitting large potholes or curbs. Misalignment can cause uneven tire wear and handling issues.
- **Fastener Torque:** Re-check the torque on all mounting bolts, u-bolts, and lug nuts at regular intervals, particularly after the first few hundred miles of use and before long trips.
- **Springs and Hangers:** Inspect leaf springs, hangers, and shackles for cracks, wear, or damage. Replace any worn components promptly.



Figure 5: Detailed view of the hub and electric brake assembly, showing the oil bath hub cap and 8-lug bolt pattern.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Uneven Tire Wear	Improper axle alignment, incorrect tire pressure, worn bearings.	Check and adjust axle alignment. Verify and correct tire pressure. Inspect and replace worn bearings.
Poor Braking Performance	Worn brake shoes, faulty wiring, improper brake adjustment, contaminated brake surfaces.	Inspect brake shoes and replace if worn. Check all electrical connections. Adjust brake controller and brake shoes. Clean any oil or grease from brake surfaces.
Excessive Noise from Axle	Worn or damaged wheel bearings, loose components.	Inspect and replace wheel bearings. Check all fasteners for proper torque.
Axle Overheating	Insufficient bearing lubrication, overtightened bearings, dragging brakes.	Check oil level in hub caps and replenish. Ensure bearings are not overtightened. Inspect brakes for proper adjustment and release.

8. WARRANTY INFORMATION

The Dexter 10K Trailer Axle is covered by a manufacturer's warranty. Based on the provided information, Dexter axles typically carry a **5-year warranty**.

For specific warranty terms, conditions, and claim procedures, please refer to the official warranty documentation provided with your purchase or contact The Trailer Parts Outlet directly.

Trailer Axle Warranty



TK AXLES

5 YEARS



DEXTER AXLES

5 YEARS



LIPPERT AXLES

6 YEARS



Figure 6: Warranty information indicating a 5-year warranty for Dexter Axles.

9. SUPPORT AND CONTACT

If you have any questions regarding the installation, operation, maintenance, or troubleshooting of your Dexter 10K Trailer Axle, please contact The Trailer Parts Outlet customer support.

For replacement parts or further assistance, visit the official store or contact details provided at the time of purchase.

Online Store: [The Trailer Parts Outlet Amazon Store](#)