DNLK BST2593

DNLK Drill Press Drive Belt Instruction Manual

Model: BST2593

1. Product Overview

This manual provides instructions for the DNLK Drill Press Drive Belt, Model BST2593. This high-strength rubber belt is designed as a replacement drive belt for various drill press models, including the Sears Craftsman 15 1/2 Inch Drill Press (model 71138). It facilitates the transfer of power from the motor to the spindle, ensuring proper operation of the drill press.

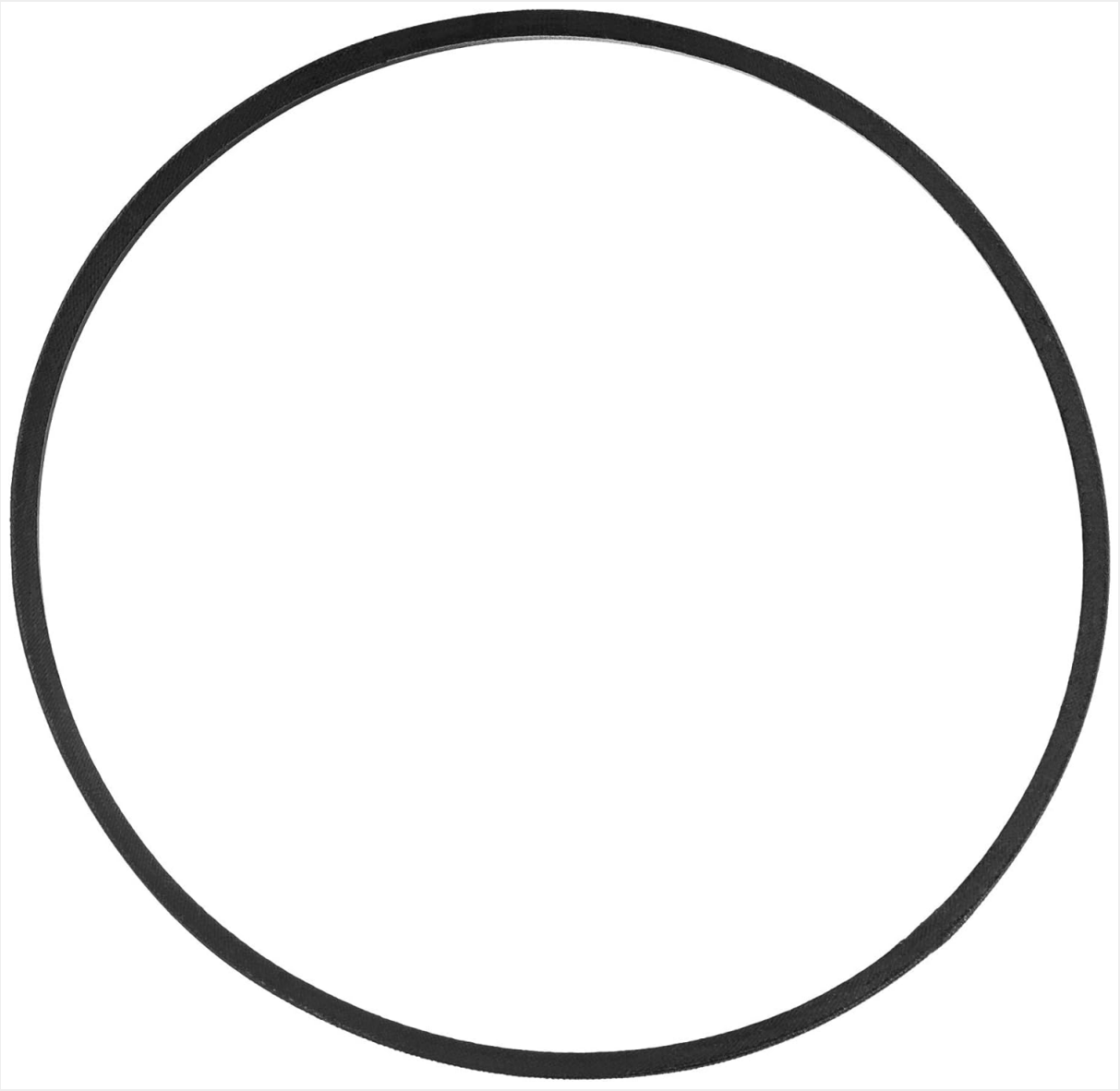

Figure 1: DNLK Drill Press Drive Belt (Model BST2593)

The image displays the DNLK Drill Press Drive Belt, a circular black rubber belt, designed for power transmission in drill presses. Its smooth, continuous loop indicates its function as a drive component.

2. Safety Information

Always prioritize safety when working with power tools and machinery. Adhere to the following guidelines:

- **Disconnect Power:** Before any inspection, maintenance, or installation, ensure the drill press is unplugged from its power source to prevent accidental startup.
- **Wear Personal Protective Equipment (PPE):** Use safety glasses, gloves, and appropriate clothing to avoid entanglement with moving parts.
- **Read Drill Press Manual:** Refer to your drill press's original instruction manual for specific safety procedures and warnings.
- **Inspect Components:** Before and after installation, inspect the belt and pulleys for any damage or wear.
- **Secure Guards:** Ensure all safety guards and covers are properly reinstalled before operating the drill press.

3. Compatibility

The DNLK Drill Press Drive Belt (Model BST2593) is specifically designed to fit the Sears Craftsman 15 1/2 Inch Drill Press, model number 71138. It is also compatible with other drill press models that require a drive belt with similar specifications. Verify your drill press's belt requirements before installation.

4. Installation (Setup)

Follow these steps to replace the drive belt on your drill press:

1. **Prepare the Drill Press:**
    - Ensure the drill press is turned off and unplugged from the power outlet.
    - Clear the work area around the drill press.
2. **Access the Belt Compartment:**
    - Locate the belt cover, typically on the top or side of the drill press head.
    - Open or remove the belt cover. This may involve unlatching clips or unscrewing fasteners.
3. **Remove the Old Belt:**
    - If the old belt is still intact, carefully roll it off the pulleys. You may need to loosen the motor mount or adjust the motor position to create slack.
    - Remove any debris or worn belt material from the pulleys and compartment.
4. **Install the New Belt:**
    - Place the new DNLK drive belt onto the smaller pulley first, then carefully stretch and roll it onto the larger pulley.
    - Ensure the belt is seated correctly in the grooves of both pulleys.

Figure 2: Illustrative image of a drive belt installed on a pulley system.

This image shows a drive belt properly seated on a set of pulleys, demonstrating the correct alignment for power transmission. The belt is taut and positioned within the pulley grooves.

5. **Adjust Belt Tension:**
    - Most drill presses have a mechanism to adjust belt tension, often by sliding the motor. Adjust the motor position until the belt has proper tension. The belt should be taut but allow for a small amount of deflection (about 1/2 inch) when pressed firmly in the middle.
    - Do not overtighten the belt, as this can cause premature wear on the belt and motor bearings.
6. **Secure and Test:**
    - Close and secure the belt cover.
    - Plug the drill press back into the power outlet.
    - Briefly turn on the drill press to ensure the belt runs smoothly and quietly without slipping.

5. Operation

The DNLK Drill Press Drive Belt is a passive component that transmits rotational power from the drill press motor to the spindle. Once properly installed and tensioned, it operates continuously during drill press use. Ensure the belt is always clean and free of oil or grease to maintain optimal grip and prevent slippage.

Figure 3: Illustrative image of a drive belt engaged with a gear and pulley system.

This image depicts a drive belt interacting with a gear and pulley system, illustrating its function in transmitting power within a mechanical assembly. The belt's surface texture is visible, highlighting its design for grip.

6. Maintenance

Regular maintenance of your drive belt ensures longevity and optimal performance of your drill press:

- **Periodic Inspection:** Regularly inspect the belt for signs of wear, cracking, fraying, or glazing. Replace the belt if any significant damage is observed.
- **Cleanliness:** Keep the belt and pulleys free from dust, chips, oil, and grease. A clean belt maintains better grip and reduces slippage. Use a dry cloth or brush for cleaning.
- **Tension Check:** Periodically check the belt tension. If the belt feels loose or you notice slippage during operation, adjust the tension as described in the installation section.
- **Storage:** If storing the drill press for an extended period, consider loosening the belt tension slightly to prevent stretching or deformation.

Figure 4: Close-up view of the DNLK drive belt's high-grade rubber material.

This image provides a detailed view of the belt's surface and construction, highlighting the texture and quality of the high-grade engineered rubber material used in its manufacturing.

7. Troubleshooting

If you encounter issues related to the drive belt, consider the following:

- **Belt Slippage:**
  - **Cause:** Insufficient tension, glazed belt surface, or oil/grease on the belt/pulleys.
  - **Solution:** Adjust belt tension, clean the belt and pulleys, or replace the belt if glazed.
- **Excessive Noise (Squealing/Screeching):**
  - **Cause:** Belt slippage, misalignment of pulleys, or worn belt.
  - **Solution:** Check and adjust tension, verify pulley alignment, or replace the belt.
- **Premature Belt Wear:**
  - **Cause:** Overtightening, misalignment, worn pulleys, or abrasive environment.
  - **Solution:** Ensure proper tension, check pulley alignment and condition, and keep the belt compartment clean.

8. Specifications

Brand	DNLK
Model Number	BST2593
Compatible Devices	Drill Press (e.g., Sears Craftsman 15 1/2 Inch Drill Press model 71138)
Material	High-Grade Engineered Rubber
Belt Style	V-belt
Color	Black
Special Features	Easy to Install, Supreme Durability, Wear Resistance
Manufacturing Origin	Made in the USA

Figure 5: Graphic highlighting "Proudly Made in USA" and "High Quality" features.

This graphic emphasizes the product's origin and material quality, stating it is "Proudly Made in USA" and made from "durable high quality rubber."

9. Warranty and Support

DNLK stands by the quality of its products. This drive belt comes with a**Lifetime Assurance**, reflecting our commitment to durability and performance. For any inquiries, technical assistance, or support, please refer to the contact information provided with your purchase or visit the official DNLK website. Our top-notch service team is available to assist you.