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Blooy D1830-415 BAH

Blooy DSH-7.94BOHNTR Needle Feed Rotary Hook Instruction Manual

Model: D1830-415 BAH | Part Code: DSH-7.94BOHNTR

1. Introduction

Thank you for choosing the Blooy DSH-7.94BOHNTR Needle Feed Rotary Hook. This component is designed for use in automatic single needle sewing machines, ensuring reliable performance for heavy material applications. This manual provides essential information regarding its specifications, compatibility, installation, operation, and maintenance to help you achieve optimal results.

2. Product Overview

The DSH-7.94BOHNTR is a high-quality needle feed rotary hook, crucial for the precise formation of stitches in industrial sewing machines. Its robust construction is engineered for durability and consistent performance, particularly when working with heavy fabrics.

Figure 2.1: Front view of the Blooy DSH-7.94BOHNTR Needle Feed Rotary Hook. This image displays the primary structure of the rotary hook, including its main body and the bobbin case area.

Figure 2.2: Top view of the Blooy DSH-7.94BOHNTR Needle Feed Rotary Hook. This perspective highlights the internal mechanism and the central spindle where the bobbin case is seated.

3. Specifications

Feature	Detail
Part Code	DSH-7.94BOHNTR
Alternate Codes	HSH-7.94BOHNTR, D1830-415-BAH, 148846-901, KHS12-SPD3
Product Dimensions	6 x 4 x 2 inches (15.24 x 10.16 x 5.08 cm)

Feature	Detail
Item Weight	3.2 ounces (90.7 grams)
Manufacturer	Blooy
Country of Origin	China
Application	Heavy Material

4. Compatibility

This rotary hook is compatible with a wide range of automatic single needle sewing machines. Please verify your machine's model number against the list below to ensure proper fit and function.

Compatible Sewing Machine Models:

- **BROTHER:** DB2-B721, DB2-B755, DB2-B771, DB2-B790, DB2-B790-3, DB2-B791, DB2-B791-3, DB2-B737-5, S-6200DD-403/405, S-7200A-405, S-7200B-305, S-7200B-405, SL-737A-5
- **JUKI:** DLN-41, DLN-412, DLN-415, DLN-5410, DLN-9000, DLN-9010, OMN-530, DDL-555H-4-5
- **CONSEW:** 310, 315R
- **MIT:** CU-865-12, LS2-210, LS2-1180-H, LS2-1380-B1T, LS2-1780-B1T
- **SINGER:** 251, 281-22, 281-24, 281-81, 291U, 400W, 451K, 491D200GB, 491D200GG, 491D300GB, 491D300GG, 600W, 660A
- **SUNSTAR:** KM-235B
- **PROTEX:** TY-B211-415
- **TYPICAL:** GC6-8-D2, GC6160H, GC6730HD3

5. Setup and Installation

Installation of a rotary hook requires precision and familiarity with sewing machine mechanics. It is highly recommended that installation be performed by a qualified sewing machine technician to ensure correct alignment and function, preventing potential damage to the machine or the new part.

General Installation Steps (Consult your machine's service manual for specific instructions):

1. **Safety First:** Disconnect the sewing machine from its power source before beginning any installation or maintenance.
2. **Access the Hook Area:** Open the necessary covers or panels to gain access to the existing rotary hook.
3. **Remove Old Hook:** Carefully unfasten any screws or retaining clips holding the old rotary hook in place. Note the orientation and position of all components.
4. **Clean Area:** Thoroughly clean any lint, dust, or old oil from the hook race and surrounding area.
5. **Install New Hook:** Position the Blooy DSH-7.94BOHNTR rotary hook into its designated slot. Ensure it seats correctly and aligns with the drive shaft.
6. **Secure Hook:** Fasten the new hook using the appropriate screws or retaining clips. Do not overtighten.
7. **Timing Adjustment:** This is a critical step. The timing between the needle and the rotary hook must be precisely set according to your machine's specifications. Incorrect timing will lead to skipped stitches, thread breakage, or machine damage.
8. **Test:** Reassemble the machine, connect power, and perform test stitches on scrap fabric to verify proper

operation.



Figure 5.1: Side view of the Blooy DSH-7.94BOHNTR Needle Feed Rotary Hook. This image illustrates the various screw points and structural elements that are important during the installation process.

6. Operating Principles

The rotary hook is a fundamental component in lockstitch sewing machines. During operation, as the needle descends and then rises, it forms a loop of upper thread. The rotary hook's point then catches this loop, carries it around the bobbin case, and interlocks it with the bobbin thread, forming a secure stitch. The precision of the hook's rotation and its timing with the needle are paramount for consistent stitch quality, especially when sewing through heavy materials.

7. Maintenance

Regular maintenance of the rotary hook is essential for extending its lifespan and ensuring the smooth operation of your sewing machine. Neglecting maintenance can lead to poor stitch quality, increased wear, and potential machine downtime.

Maintenance Guidelines:

- **Cleaning:** Regularly remove the bobbin case and clean the hook race area. Use a small brush or compressed air to remove lint, thread scraps, and dust. Accumulation of debris can impede the hook's rotation and affect stitch quality.
- **Lubrication:** Apply a few drops of high-quality sewing machine oil to the hook race and other designated lubrication points as specified in your machine's manual. Proper lubrication reduces friction and wear. Frequency of oiling depends on usage; for heavy use, oil daily.
- **Inspection:** Periodically inspect the hook point for any nicks, burrs, or damage. A damaged hook point can snag thread, cause skipped stitches, or break needles. If damage is observed, the hook may need to be replaced.
- **Bobbin Case:** Ensure the bobbin case is clean and free of damage. A worn or damaged bobbin case can also affect stitch quality.



Figure 7.1: Angled view of the Blooy DSH-7.94BOHNTR Needle Feed Rotary Hook. This view provides insight into the internal components and the overall robust construction, which is beneficial for understanding maintenance points.

8. Troubleshooting

If you encounter issues after installing or during the use of the rotary hook, consult the table below for common problems and their potential solutions. Always ensure the machine is unplugged before inspecting or adjusting components.

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect hook timing; damaged needle; incorrect needle size; improper threading.	Adjust hook timing (professional recommended); replace needle; use correct needle for fabric; re-thread machine correctly.
Thread Breakage (Upper)	Burr on hook point; excessive upper thread tension; poor quality thread; needle installed incorrectly.	Inspect hook point for damage; adjust upper tension; use quality thread; re-install needle correctly.

Problem	Possible Cause	Solution
Thread Breakage (Bobbin)	Bobbin case tension too high; damaged bobbin case; bobbin wound unevenly.	Adjust bobbin case tension; inspect/replace bobbin case; re-wind bobbin evenly.
Noisy Operation	Lack of lubrication; debris in hook area; loose components.	Lubricate hook race; clean hook area thoroughly; check for and tighten any loose screws.
Poor Stitch Quality	Incorrect tension settings; worn hook; improper thread/needle combination.	Adjust tensions; inspect hook for wear; ensure thread and needle are appropriate for fabric.

9. Warranty Information

Specific warranty details for the Blooy DSH-7.94BOHNTR Needle Feed Rotary Hook are provided by the seller at the time of purchase. Please retain your proof of purchase for any warranty claims. For information regarding returns, exchanges, or defects, please contact the seller directly.

10. Customer Support

For further assistance, technical support, or inquiries not covered in this manual, please contact the seller from whom you purchased this product. They will be able to provide the most accurate and timely support for your specific needs.

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