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CKPSMS PFAFF 141, 142, 143, 144, 145, 146, 175-196, 871-893 Compatible Parts

CKPSMS Rotary Hook & Bobbin Case Set User Manual

Compatible with PFAFF Industrial Sewing Machines

1. INTRODUCTION

This manual provides essential information for the CKPSMS Rotary Hook and Bobbin Case Set, designed as a high-quality replacement for specific PFAFF industrial sewing machine models. This set is particularly suited for sewing with heavy materials.

- **Part Numbers:** HPF-145 (91-010 850-91) for the Rotary Hook and CP-HPF151 (91-010 159-91) for the Bobbin Case.
- **Quantity:** 1PCS Rotary Hook, 1PCS Bobbin Case.
- **Compatibility:** This set is compatible with/replacement for PFAFF brand industrial sewing machines, including models 141, 142, 143, 144, 145, 146, 175-196, and 871-893.
- **Intended Use:** Optimized for use with heavy materials.

2. PRODUCT OVERVIEW

The CKPSMS Rotary Hook and Bobbin Case Set consists of two critical components for your industrial sewing machine's lower thread mechanism. The rotary hook is responsible for catching the needle thread and forming a loop around the bobbin thread, while the bobbin case holds the bobbin and regulates the bobbin thread tension.



Figure 2.1: The complete CKPSMS Rotary Hook and Bobbin Case set. This image shows the rotary hook with the bobbin case inserted, ready for installation into a compatible sewing machine.



Figure 2.2: The rotary hook and bobbin case shown separately. This view highlights the individual components, allowing for a clearer understanding of their distinct designs and functions.



Figure 2.3: Top-down view of the rotary hook and bobbin case. This perspective is useful for identifying key features and ensuring correct orientation during installation.

3. INSTALLATION AND SETUP

Proper installation of the rotary hook and bobbin case is crucial for the correct functioning of your sewing machine. Always prioritize safety and precision during this process.

1. **Safety First:** Before attempting any installation or replacement, ensure your sewing machine is **turned off and unplugged** from the power source. This prevents accidental starts and potential injury.
2. **Consult Your Machine Manual:** For detailed, model-specific instructions on how to remove the old rotary hook and bobbin case and install the new ones, refer to the original instruction manual for your specific PFAFF industrial sewing machine model (e.g., PFAFF 141, 145, etc.). Sewing machine mechanisms can vary, and the manufacturer's manual provides precise guidance.
3. **Component Identification:** Familiarize yourself with the new rotary hook (HPF-145) and bobbin case (CP-HPF151) by comparing them to the images in Section 2. Ensure you have the correct parts for your machine.
4. **Installation Steps:** Follow the steps outlined in your PFAFF machine's manual for installing the rotary hook and then inserting the bobbin case. Pay close attention to alignment and securing mechanisms.
5. **Bobbin Insertion:** Once the bobbin case is installed, insert a correctly wound bobbin into the bobbin case, ensuring the thread is properly routed through the tension spring.
6. **Test Run:** After installation, manually turn the machine's handwheel a few times to ensure all parts move freely and without obstruction. Then, plug in the machine and perform a test stitch on scrap fabric to verify proper operation and stitch formation.

Note: This set is designed for use with heavy materials. Ensure your machine settings and needle type are also appropriate for the heavy materials you intend to sew.

4. OPERATION

Once correctly installed, the rotary hook and bobbin case work in conjunction with the needle and upper thread to form secure stitches. Their primary function is to create the lockstitch by interlocking the upper and lower threads.

- **Thread Path:** Ensure both the upper thread and the bobbin thread are correctly threaded according to your sewing machine's manual. Incorrect threading is a common cause of stitching issues.
- **Tension Adjustment:** The bobbin case has a tension spring that controls the bobbin thread tension. If your stitches are unbalanced (e.g., loops on the top or bottom of the fabric), you may need to adjust the tension on the bobbin case or the upper thread tension on your machine. Refer to your machine's manual for tension adjustment procedures.
- **Material Compatibility:** As this set is optimized for heavy materials, ensure your machine's feed dog, presser foot, and needle are also suitable for the fabric thickness to achieve optimal stitch quality.

5. MAINTENANCE

Regular maintenance of your sewing machine's hook and bobbin area will ensure smooth operation and extend the lifespan of these components.

- **Cleaning:** Frequently remove the bobbin case and clean the area around the rotary hook. Lint, dust, and small thread snippets can accumulate and interfere with the hook's movement, leading to skipped stitches or thread jams. Use a small brush or lint-free cloth.
- **Lubrication:** Consult your PFAFF sewing machine's manual for specific lubrication points and recommended oiling frequency for the rotary hook mechanism. Proper lubrication reduces friction and wear.
- **Inspection:** Periodically inspect the rotary hook and bobbin case for any signs of wear, burrs, or damage. A damaged hook point can snag thread and cause breakage. Replace parts if significant wear or damage is observed.
- **Storage:** When not in use for extended periods, store the sewing machine in a clean, dry environment. If the parts are removed, store them in a sturdy packaging box to prevent rust and corrosion.

6. TROUBLESHOOTING

If you encounter issues after installing the CKPSMS Rotary Hook and Bobbin Case Set, consider the following common troubleshooting steps:

- **Skipped Stitches:**
 - Ensure the needle is inserted correctly and is not bent or dull.
 - Verify that the rotary hook is correctly timed with the needle. Refer to your machine's service manual or a qualified technician for timing adjustments.
 - Check that the bobbin case is seated properly and the bobbin thread is correctly routed.
- **Thread Breakage (Upper or Lower):**
 - Check thread tension settings; too tight tension can cause breakage.
 - Inspect the rotary hook and bobbin case for any burrs or sharp edges that might be snagging the thread.
 - Ensure you are using appropriate thread and needle size for the material.
- **Machine Jamming or Unusual Noise:**
 - Immediately turn off and unplug the machine.
 - Remove the needle plate, bobbin case, and rotary hook to check for any tangled threads or debris.
 - Reinstall the parts carefully, ensuring proper alignment.
- **Part Does Not Fit:**

- Double-check the compatibility list in Section 1 against your specific PFAFF machine model.
- Ensure you have the correct part numbers (HPF-145 and CP-HPF151).

If troubleshooting steps do not resolve the issue, please refer to the Technical Support section for assistance.

7. SPECIFICATIONS

Feature	Detail
Product Name	Rotary Hook & Bobbin Case Set
Rotary Hook Part No.	HPF-145 (91-010 850-91)
Bobbin Case Part No.	CP-HPF151 (91-010 159-91)
Quantity	1PCS Rotary Hook, 1PCS Bobbin Case
Compatibility	PFAFF Industrial Sewing Machines: 141, 142, 143, 144, 145, 146, 175-196, 871-893
Material Use	Designed for heavy materials
Manufacturer	CKPSMS

8. SAFETY INFORMATION

Adhere to the following safety guidelines when handling and installing sewing machine parts to prevent injury and ensure proper operation.

Product safety photos and guideline

For CKPSMS brand sewing machine parts and accessories



Needle Plate:

Always use the correct needle plate for your sewing machine model. Do not use a damaged or bent needle plate. When changing the needle plate, make sure the sewing machine is turned off and unplugged.



Presser Foot:

Always use the correct presser foot for your sewing machine model. Do not use a damaged or bent presser foot. When changing the presser foot, make sure the sewing machine is turned off and unplugged.



Foot pedal, auto bobbin winder and any other products which are required to connect to the power:

- Do not use the product when your hands are wet.
- If the power cord is damaged, stop using the product immediately and replace it with a new one.
- Always disconnect the power supply before repairing the product.
- Do not connect the product to a power source with a voltage that does not match.



Bobbin Case:

Always use the correct bobbin case for your sewing machine model. Do not use a damaged or bent bobbin case. When changing the bobbin case, make sure the sewing machine is turned off and unplugged.



Fabric cleaner:

- Do not spray towards the body, face, or hands of a person.
- Keep out of reach of children.
- Do not use upside down.
- Do not connect to a power source with a voltage that does not match the product.
- Do not modify the power cord or auxiliary tools of this product by yourself.



Looper, thread cutter, blades and any other products which are sharp or incisive:

- Take sufficient safety precautions to prevent injury to your fingers.
- Before disassembling or assembling, understand the correct method and make sure to install it in the designated position.
- Keep it in a place where children cannot touch it.
- Store it in a sturdy packaging box and take measures to prevent rust and corrosion.

Figure 8.1: General safety guidelines for CKPSMS sewing machine parts and accessories. This image provides visual cues and text for safe handling and use.

- Always turn off and unplug the sewing machine before changing any parts, including the needle plate, bobbin case, or presser foot.
- Use only the correct and compatible parts for your specific sewing machine model.
- Keep all sewing machine parts and accessories out of reach of children.
- Do not use damaged or bent parts. Replace them immediately.
- Do not connect any part to a power source with a voltage that does not match the product's requirements.

- Do not modify the power cord or auxiliary tools.
- Exercise caution and take sufficient safety precautions to prevent injury to your fingers, especially when handling sharp components like needles or hooks.
- Store parts in their original or a sturdy packaging box to prevent damage, rust, and corrosion.

9. TECHNICAL SUPPORT & WARRANTY

CKPSMS is committed to providing support for its products. If you have any questions or encounter issues, please reach out to our technical support team.

- **Technical Support:** If you are unsure about the compatibility of these parts with your machine, or if you run into any issue using the received parts, please send a message to CKPSMS via the Amazon platform. Our technicians are available to provide professional and accurate advice.
- **Information Required for Support:** To assist you effectively, please provide your machine's brand and complete model number when contacting technical support.
- **Warranty Information:** Specific warranty details for this product are not provided within this manual. For information regarding product warranty, returns, or replacements, please contact the seller directly through your purchase platform.

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This manual is for informational purposes only. Always refer to your sewing machine's original manufacturer manual for specific instructions.