ckpsms HPF-490(A)+CP-HPF151+10079

ckpsms KUNPENG Sewing Machine Rotary Hook, Bobbin Case, and Bobbins Instruction Manual

Model: HPF-490(A) + CP-HPF151 + 10079
Brand: ckpsms

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1. Introduction

This manual provides instructions for the installation, operation, and maintenance of the ckpsms KUNPENG Rotary Hook, Bobbin Case, and Bobbins set. This set includes one Rotary Hook (part #HPF-490(A)), one Bobbin Case (part #CP-HPF151), and ten Bobbins (part #10079). These components are essential for the proper functioning of compatible industrial sewing machines, ensuring smooth thread handling and stitch formation.



Figure 1: Overview of the ckpsms KUNPENG Rotary Hook, Bobbin Case, and Bobbins set.

2. Compatibility

This set of sewing machine parts is compatible with a range of industrial sewing machine models. Verify your machine's model number against the list below to ensure proper fit and function.

Compatible Sewing Machine Models:

- **PFAFF:** 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 490B/C
- **SEIKO:** PWB-8GW
- **GOLDEN WHEEL:** CS-2401-T, CS-8369 Series, CS-862, CS-8810, CS-8820, CSR-2401
- **HIGHLEAD:** GC-24168, GC-24618-1
- **SUNSTAR:** KM-957
- **TYPICAL:** GC24660, GC24680, PWB-8GW

3. Setup & Installation

Proper installation of the rotary hook, bobbin case, and bobbins is crucial for optimal sewing performance. Always refer to your specific sewing machine's service manual for detailed instructions and safety precautions before attempting installation.

3.1. Safety Precautions

- Always turn off and unplug the sewing machine before installing or removing any parts.
- Use appropriate tools and handle parts carefully to avoid injury or damage.
- Keep small parts away from children.

3.2. Rotary Hook Installation (Part #HPF-490(A))

The rotary hook is a precision component. Handle it with care.

1. **Access the Hook Area:** Depending on your machine model, you may need to remove the needle plate, feed dog, or other covers to access the rotary hook assembly.
2. **Remove Old Hook (if applicable):** Loosen the screws securing the old rotary hook. Carefully remove it, noting its orientation.
3. **Clean Area:** Thoroughly clean any lint, dust, or old oil from the hook race and surrounding area.
4. **Install New Hook:** Position the new rotary hook (HPF-490(A)) into the hook race. Ensure it sits correctly and aligns with the drive mechanism.
5. **Secure Hook:** Tighten the securing screws. Do not overtighten.
6. **Timing Adjustment:** The rotary hook timing is critical. If you are unsure about timing adjustments, consult your machine's service manual or a qualified technician. Incorrect timing can lead to skipped stitches or machine damage.



Figure 2: The Rotary Hook (Part #HPF-490(A)).

3.3. Bobbin Case Installation (Part #CP-HPF151)

The bobbin case holds the bobbin and regulates the lower thread tension.

1. **Prepare Bobbin:** Wind a bobbin with the desired thread (refer to Section 4.1).
2. **Insert Bobbin into Case:** Place the wound bobbin into the bobbin case (CP-HPF151). Ensure the thread unwinds in the correct direction (usually clockwise for front-loading bobbin cases, but check your machine manual).
3. **Thread Bobbin Case:** Guide the bobbin thread through the tension spring slot on the bobbin case. Pull the thread until it slides under the tension spring and emerges from the small opening.
4. **Install Bobbin Case:** Open the bobbin compartment on your sewing machine. Hold the bobbin case by its latch and insert it into the rotary hook assembly. Ensure it clicks securely into place. The latch should release the bobbin case when properly seated.
5. **Close Compartment:** Close the bobbin compartment cover.



Figure 3: The Bobbin Case (Part #CP-HPF151) and Bobbins (Part #10079).

3.4. Bobbin Usage (Part #10079)

The bobbins (10079) are standard metal bobbins designed for industrial sewing machines.

1. **Winding Bobbins:** Use your sewing machine's bobbin winder to fill the bobbins with thread. Ensure the thread winds evenly and not too tightly or too loosely.
2. **Inserting into Bobbin Case:** Follow the instructions in Section 3.3 for inserting a wound bobbin into the bobbin case.

4. Operating Instructions

Once the rotary hook, bobbin case, and bobbins are correctly installed, you can proceed with normal sewing operations. Always ensure your machine is properly threaded and tension settings are appropriate for your fabric and thread type.

4.1. Threading the Bobbin Case

1. Place a wound bobbin into the bobbin case.
2. Pull the thread into the slot of the tension spring.
3. Continue pulling the thread until it emerges from the small opening at the end of the tension spring. A slight resistance should be felt, indicating proper tension.
4. Leave a tail of about 4-6 inches of thread.

4.2. Bringing Up the Bobbin Thread

1. Ensure the needle is threaded with the upper thread.
2. Hold the upper thread tail.
3. Turn the handwheel towards you (counter-clockwise) to lower the needle into the needle plate and then bring it back up.
4. As the needle rises, it will catch the bobbin thread, forming a loop.
5. Pull the upper thread tail gently to bring the bobbin thread loop up through the needle plate hole.
6. Pull both upper and bobbin threads towards the back of the machine, under the presser foot.

5. Maintenance

Regular maintenance of your rotary hook, bobbin case, and bobbins will extend their lifespan and ensure consistent sewing quality.

5.1. Cleaning

- **Frequency:** Clean the bobbin area and rotary hook regularly, ideally after every few hours of sewing or when changing bobbins.
- **Procedure:**
    a. Turn off and unplug the machine.
    b. Remove the needle plate, bobbin, and bobbin case.
    c. Use a small brush (often supplied with your sewing machine) to remove lint and thread scraps from the bobbin case, rotary hook, and surrounding areas.
    d. Avoid using compressed air, as it can push lint further into the machine.

5.2. Lubrication (Rotary Hook)

- **Frequency:** The rotary hook requires regular lubrication with high-quality sewing machine oil. Refer to your sewing machine's manual for specific oiling points and frequency.
- **Procedure:**
    a. Apply a small drop of sewing machine oil to the hook race where the bobbin case rotates.
    b. Turn the handwheel a few times to distribute the oil.
    c. Wipe away any excess oil to prevent staining fabric.

5.3. Bobbin Case Tension

The bobbin case tension is factory-set but may require minor adjustments over time. Adjustments should be made sparingly and with caution.

- **To Increase Tension:** Turn the small screw on the bobbin case tension spring slightly clockwise.
- **To Decrease Tension:** Turn the small screw on the bobbin case tension spring slightly counter-clockwise.
- Test the tension on a scrap piece of fabric after each adjustment.

6. Troubleshooting

This section addresses common issues related to the rotary hook, bobbin case, and bobbins. For more comprehensive troubleshooting, consult your sewing machine's main instruction manual.

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect needle, bent needle, improper needle insertion, incorrect rotary hook timing, lint in hook area.	Ensure correct needle type and size. Replace bent needle. Reinsert needle correctly. Check rotary hook timing (consult technician if unsure). Clean lint from hook area.
Thread Breakage (Bobbin Thread)	Bobbin wound too tightly/loosely, incorrect bobbin case tension, burrs on bobbin case or hook, poor quality thread.	Rewind bobbin evenly. Adjust bobbin case tension. Inspect bobbin case and hook for damage; replace if necessary. Use quality thread.
Upper Thread Loops on Underside of Fabric	Bobbin thread tension too loose.	Increase bobbin case tension slightly (turn screw clockwise).
Bobbin Case Jams	Lint buildup, damaged bobbin, incorrect bobbin insertion, foreign object.	Clean bobbin area thoroughly. Replace damaged bobbins. Ensure bobbin is inserted correctly. Remove any foreign objects.

7. Specifications

This section details the part numbers and alternative part numbers for the components included in this set.

- **Rotary Hook:**
  - Part Number: #HPF-490(A)
  - Alternative Part Numbers: 91-119 767 -91, KRT470-R, YZH-PF490(A)
- **Bobbin Case:**
  - Part Number: #CP-HPF151
  - Alternative Part Numbers: 91-010 159-91, 10159
- **Bobbins:**
  - Part Number: #10079
  - Quantity: 10 pieces

8. Warranty & Support

For specific warranty information regarding this product, please refer to the terms and conditions provided at the point of purchase or contact the seller directly. As these are replacement parts, their warranty may be subject to the original machine's warranty or specific part warranty policies.
For technical support or further assistance with installation and troubleshooting, it is recommended to consult your sewing machine's official service manual or contact a certified sewing machine technician.

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