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› [CKPSMS](#) /

› [CKPSMS Industrial Sewing Machine Feed Dog & Needle Plate Instruction Manual](#)

CKPSMS 20160LGW+149159

CKPSMS Industrial Sewing Machine Feed Dog & Needle Plate Instruction Manual

Model: #20160LGW+149159

1. INTRODUCTION

This instruction manual provides essential information for the installation, operation, and maintenance of your CKPSMS Feed Dog and Needle Plate set. This set is designed to enhance the performance of compatible industrial single needle sewing machines, particularly when working with medium to semi-heavy materials.



Figure 1.1: Assembled Feed Dog and Needle Plate.



Figure 1.2: Feed Dog and Needle Plate separated, showing individual components.

The set includes:

- 1PCS Medium single machine regular Feed Dog - #149159
- 1PCS Medium single machine regular Needle Plate - #20160LGW

2. COMPATIBILITY

This high-quality NEEDLE PLATE & FEED DOG replacement set is compatible with most industrial single needle sewing machines. It is generally used for medium to semi-heavy materials. **Please note: This set is not compatible with Walking Foot machines.**

Compatible with/Replacement for many models, including (but not limited to):

- **Brother:** B-series: 705, 715, 735, 737, 757, 760, 767, 781, 791, 792, 795
- **Consew:** 210, 218, 219, 220, 23R, 290R, 292, 310, 2230R, 7360R-1, 7360RH
- **Feiyue:** FY8500, FY8700
- **Juki:** DDL all classes (except DDL-201), DLD-432, DLM-522, DLM-5200, DLM-5400, DLN5400, DLN412, DLN415, DLN5410, DLU450
- **Mitsubishi:** DB-series: 120, 122, 126, 130, 170, 189, 199; LS2 series: 130, 150, 180, 190, 1130, LX2-630
- **Singer:** 95, 96, 120u, 121c, 121D, 220u12, 241, 251, 281, 366k, 400w, 402w, 451k, 600w, 660a, 770D, 771D, 2491D

- **Yakumo:** 178Y-3, DBEN63, DBUN65, DENIN720, DSN-58
- **Yamata:** FY8500, FY8700

3. SETUP AND INSTALLATION

Proper installation of the feed dog and needle plate is crucial for optimal sewing machine performance. Always prioritize safety during installation.

Installation Steps:

1. **Power Off and Unplug:** Before beginning any installation or replacement, ensure your sewing machine is turned off and completely unplugged from the power source. This prevents accidental activation and potential injury.
2. **Remove Existing Components:** Carefully unscrew and remove the old needle plate and feed dog from your sewing machine. Keep track of any screws or small parts.
3. **Clean the Area:** Use a small brush or compressed air to clean any lint, dust, or debris from the area where the new components will be installed. A clean surface ensures proper seating and function.
4. **Position New Needle Plate:** Place the new CKPSMS Needle Plate (#20160LGW) onto the machine, aligning it with the screw holes.
5. **Install Feed Dog:** Position the new CKPSMS Feed Dog (#149159) beneath the needle plate, ensuring its teeth align with the slots in the needle plate.
6. **Secure Components:** Gently screw the components into place. Do not overtighten the screws, as this can damage the parts or the machine. Ensure both the feed dog and needle plate are securely fastened and do not wobble.
7. **Verify Alignment:** After installation, manually turn the handwheel to ensure the needle passes cleanly through the needle plate hole without striking any part of the feed dog or plate. The feed dog should move smoothly up and down through the slots.



**SUITABLE FOR
SINGLE NEEDLE
INDUSTRIAL
SEWING
MACHINE.**

Figure 3.1: Feed Dog and Needle Plate installed on an industrial sewing machine.

4. OPERATING PRINCIPLES

The feed dog and needle plate work in conjunction to ensure smooth and consistent fabric feeding during the sewing process. The feed dog's teeth grip the fabric and move it forward, while the needle plate provides a flat surface for the fabric and supports it as the needle penetrates. This specific set is engineered for optimal performance with medium to semi-heavy materials, providing the necessary grip and stability for these fabric types.

When operating your sewing machine with these components, ensure that the fabric type matches the intended use (medium to semi-heavy) to achieve the best stitch quality and prevent undue stress on the machine or parts.

5. MAINTENANCE

Regular maintenance of your feed dog and needle plate will extend their lifespan and ensure consistent sewing performance.

- **Cleaning:** Periodically remove the needle plate and feed dog to clean accumulated lint and thread fibers from beneath them. Use a small brush or lint remover. Do not use harsh chemicals that could corrode the metal.
- **Inspection:** Regularly inspect the feed dog teeth for wear or damage. Check the needle plate for any burrs, scratches, or enlarged needle holes, which can snag fabric or cause needle breakage. Replace parts if significant wear or damage is observed.
- **Storage:** When not in use, store the parts in a sturdy packaging box to protect them from damage. Take measures to prevent rust and corrosion, especially in humid environments.
- **Handling:** Handle the components with care to avoid bending or deforming them.



Figure 5.1: Product as received in packaging, suitable for storage.

6. TROUBLESHOOTING

If you encounter issues after installing your new feed dog and needle plate, consider the following common problems and solutions:

- **Fabric Not Feeding Properly:**
 - Ensure the feed dog is installed correctly and its teeth are not worn.
 - Check that the feed dog height is properly adjusted for your machine model. Refer to your sewing machine's main manual for feed dog height adjustment.
 - Verify that the presser foot pressure is appropriate for the fabric thickness.
- **Needle Breaking or Hitting Plate:**
 - Confirm the needle plate is securely fastened and not loose.
 - Check for proper alignment of the needle with the needle plate hole. If the needle is striking the plate, the plate may be misaligned or the needle bar may need adjustment.
 - Ensure you are using the correct needle size and type for your fabric and machine.
- **Parts Not Fitting Correctly (e.g., Clearance Issues):**
 - Double-check the compatibility list to ensure these parts are suitable for your specific sewing machine model.
 - Verify that all screws are tightened evenly.
 - In rare cases, minor adjustments or professional fitting may be required if there are slight manufacturing tolerances. If you experience significant clearance issues, it is recommended to consult a qualified sewing machine technician.

7. PRODUCT SPECIFICATIONS

Part Numbers	Feed Dog: #149159, Needle Plate: #20160LGW
Material Suitability	Medium to Semi-Heavy Materials
Package Dimensions	3.7 x 2.76 x 0.28 inches
Item Weight	1.41 ounces
Manufacturer	CKPSMS
ASIN	B078MMZ87K
Date First Available	December 26, 2017

8. SAFETY GUIDELINES

Adhering to these safety guidelines is essential for your protection and the longevity of your sewing machine and its components.

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.



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.



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.



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 product safety guidelines from CKPSMS.

• General Safety for Sewing Machine Parts:

- Always use the correct needle plate and feed dog for your sewing machine model.

- Do not use damaged or bent parts.
- When changing any sewing machine part (needle plate, feed dog, bobbin case, presser foot), always ensure the sewing machine is turned off and unplugged.
- **Handling Sharp or Incisive Products (e.g., loopers, thread cutters, blades):**
 - Take sufficient safety precautions to prevent injury to your fingers.
 - Before disassembling or assembling, understand the correct method and ensure parts are installed in the designated position.
 - Keep all sewing machine parts and accessories out of reach of children.
 - Store parts in a sturdy packaging box and take measures to prevent rust and corrosion.
- **Electrical Safety (for products requiring power connection, not directly applicable to this part but general advice):**
 - Do not use electrical products when your hands are wet.
 - If a power cord is damaged, stop using the product immediately and replace it with a new one.
 - Always disconnect the power supply before repairing any electrical product.
 - Do not connect the product to a power source with a voltage that does not match.
- **Fabric Cleaner Safety (if applicable):**
 - 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.

9. WARRANTY INFORMATION

Specific warranty details for this product are not provided in the available information. For any warranty-related inquiries, please contact CKPSMS directly through their official support channels.

10. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your CKPSMS Feed Dog & Needle Plate set, please reach out to the manufacturer, CKPSMS. They are a professional supplier of industrial sewing machine spare parts and can provide expert advice to ensure compatibility and proper function with your machines. You can typically find contact information for CKPSMS through their official website or the platform where you purchased the product.

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This manual is for informational purposes only. CKPSMS is not responsible for any damage or injury resulting from improper use or installation of this product.