**ckpsms 3692-169**

# CKPSMS #3692-169 Zig Zag Cam Gear Instruction Manual

For Kenmore 158 Series Sewing Machines

## 1. Product Overview

This document provides instructions for the CKPSMS #3692-169 Zig Zag Cam Gear, a replacement component designed for specific Kenmore 158 Series sewing machines. This gear is constructed from metal, offering a durable alternative to original plastic components.

### 1.1 Compatibility

The #3692-169 Cam Gear is compatible with the following Kenmore 158 Series sewing machine models:

- 158.12270
- 158.12271
- 158.12272
- 158.12370
- 158.12471
- 158.12472

**Important:** Before purchase and installation, carefully compare the teeth direction and overall dimensions of this gear with your original gear to ensure proper fit and function. The material of this replacement gear is metal, which may differ from your original plastic gear.




Image 1.1: Visual comparison of the correct metal cam gear (left) versus an incompatible plastic cam gear (right). Ensure the teeth direction matches your original part.

## 2. Setup and Installation

Installation of internal sewing machine components requires mechanical aptitude. If you are unsure about the process, it is recommended to seek assistance from a qualified sewing machine technician or refer to your specific Kenmore sewing machine's service manual for detailed disassembly and assembly instructions.

### 2.1 Pre-Installation Check

1. **Verify Part:** Confirm that the #3692-169 cam gear matches the dimensions and teeth direction of the gear you are replacing.
2. **Shaft Diameter:** Ensure the internal diameter of the cam gear is compatible with your machine's existing shaft. The gear is designed for a 12mm (15/32") vertical shaft.
3. **Tools:** Gather necessary tools, which typically include screwdrivers, wrenches, and potentially specialized sewing machine tools.

4. **Safety:** Disconnect the sewing machine from its power source before beginning any installation or repair work.




Image 2.1: Dimensional specifications of the #3692-169 Zig Zag Cam Gear, including shaft diameter and gear teeth count.

## 2.2 Installation Steps (General Guidance)

The following steps are general and should be supplemented by your sewing machine's specific service manual:

1. **Access:** Carefully open the sewing machine casing to access the internal gear mechanism.
2. **Remove Old Gear:** Loosen any retaining screws or clips and carefully remove the damaged or worn cam gear. Note the orientation of the old gear.
3. **Install New Gear:** Position the new CKPSMS #3692-169 cam gear onto the vertical shaft, ensuring it aligns correctly with other gears and components. The gear should slide smoothly onto the 12mm shaft.
4. **Secure:** Tighten any retaining screws or clips to secure the new gear in place. Ensure the gear is firmly seated but can rotate freely without excessive play.
5. **Reassemble:** Carefully reassemble the sewing machine casing.



Image 2.2: The #3692-169 cam gear and its associated shaft and securing screw.



Image 2.3: The cam gear correctly assembled onto its shaft.

## 3. Operating Instructions

Once the #3692-169 Zig Zag Cam Gear is correctly installed, the sewing machine should operate as intended, particularly for zig-zag stitching functions. No special operating procedures are required for the gear itself.

### 3.1 Post-Installation Test

1. **Power On:** Connect the sewing machine to its power source.
2. **Manual Test:** Manually turn the handwheel a few rotations to ensure all internal mechanisms move freely and without obstruction.
3. **Function Test:** Select a zig-zag stitch pattern and test the machine on a scrap piece of fabric. Observe for smooth operation, correct stitch formation, and absence of unusual noises or vibrations.

## 4. Maintenance

Proper maintenance extends the life of your sewing machine and its components, including the cam gear.

- **Cleaning:** Periodically clean the area around the cam gear to remove lint, dust, and old lubricant buildup. Use a soft brush or compressed air.
- **Lubrication:** Refer to your Kenmore sewing machine's original manual for specific lubrication points and recommended lubricants. Apply lubrication sparingly to moving parts as instructed.
- **Inspection:** Regularly inspect the cam gear for signs of wear, damage, or misalignment. Early detection of issues can prevent further damage to your machine.

## 5. Troubleshooting

If you encounter issues after installing the #3692-169 Zig Zag Cam Gear, consider the following:

- **Zig-Zag Function Not Working:**
  - Verify the gear is correctly seated and secured on the shaft.
  - Check for any obstructions preventing the gear from rotating freely.
  - Ensure the teeth of the new gear are properly engaged with other gears in the mechanism.
  - Re-confirm that the gear's teeth direction matches your original part.
- **Gear Does Not Fit:**
  - Double-check the model number of your sewing machine against the compatibility list.
  - Measure the diameter of your machine's vertical shaft to ensure it matches the 12mm (15/32") requirement of this gear.
  - Compare the physical dimensions of the new gear with the old one, especially the overall size and the tunnel diameter for the shaft.
- **Unusual Noises:**
  - Ensure all components are properly lubricated according to your machine's manual.
  - Check for any loose parts or incorrect alignment that might cause friction or grinding.

For persistent issues, consult your Kenmore sewing machine's comprehensive troubleshooting guide or contact technical support.

## 6. Specifications

| | |
|---|---|
| **Part Number** | 3692-169 |
| **Part Name** | CAM GEAR |
| **Quantity** | 1 Piece |
| **Material** | Metal |
| **Shaft Size** | 12mm (15/32") Vertical Shaft |
| **Gear Diameter** | Approximately 19.5mm |
| **Number of Teeth** | 20 Teeth |
| **Compatibility** | Kenmore 158 Series Sewing Machines |

## 7. Technical Support

For technical assistance or if you have questions regarding the compatibility or installation of this part, please contact us via Amazon's messaging system. Our technical support team can provide professional and accurate advice.
When contacting support, please provide your sewing machine's brand and complete model number to facilitate accurate assistance.


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