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Cutex 277342-16F

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1. INTRODUCTION AND PRODUCT OVERVIEW

This instruction manual provides essential information regarding the installation, function, and maintenance of the Cutex Differential Feed Dog, part number 277342-16F. This component is specifically designed for use with Pegasus EX5200 Series industrial overlock sewing machines. Understanding the proper handling and integration of this genuine Pegasus part is crucial for maintaining the optimal performance of your sewing equipment.



Figure 1: The Cutex Differential Feed Dog (Part #277342-16F). This image displays the metallic feed dog, featuring two distinct rows of serrated teeth designed to grip fabric. The L-shaped mounting bracket is visible on the left, indicating how it attaches to the sewing machine. The surface shows a brushed metal texture.

2. PRODUCT DESCRIPTION

The Differential Feed Dog (Part #277342-16F) is a critical component in industrial overlock sewing machines, responsible for moving fabric under the needle. This specific assembly is a genuine Pegasus part, ensuring compatibility and performance with Pegasus EX5200 Series machines. Its design facilitates differential feeding, allowing for precise control over fabric movement to prevent stretching or puckering, especially on delicate or stretchy materials.

- **Component Type:** Differential Feed Dog Assembly
- **Part Number:** 277342-16F
- **Compatibility:** Specifically designed for Pegasus EX5200 Series industrial overlock machines.
- **Authenticity:** Genuine Pegasus part, supplied by Cutex.

3. SETUP AND INSTALLATION

Installation of the differential feed dog requires careful attention to detail. It is recommended that this procedure be performed by a qualified sewing machine technician or an individual with experience in industrial sewing machine maintenance to ensure correct alignment and function.

1. **Safety First:** Before beginning any installation or maintenance, ensure the sewing machine is powered off and unplugged from the electrical outlet to prevent accidental operation.

2. **Access the Feed Dog Area:** Depending on your specific Pegasus EX5200 model, you may need to remove the needle plate and potentially other covers to access the existing feed dog. Refer to your machine's primary service manual for detailed instructions on accessing this area.
3. **Remove Old Feed Dog:** Carefully unfasten the screws securing the old feed dog to the machine's feed bar. Retain these screws if they are in good condition, or use new ones if specified by the machine's manual.
4. **Install New Feed Dog:** Position the new Cutex Differential Feed Dog (277342-16F) onto the feed bar, aligning the screw holes. Gently tighten the screws to secure the feed dog in place. Do not overtighten.
5. **Check Alignment and Clearance:** Manually turn the machine's handwheel to observe the feed dog's movement. Ensure it moves smoothly and does not obstruct the needle or presser foot. Verify that the teeth rise and fall correctly through the needle plate slots.
6. **Reassemble:** Replace any covers or the needle plate that were removed.
7. **Test Functionality:** Plug in and power on the machine. Perform a test stitch on scrap fabric to confirm proper fabric feeding and stitch formation. Adjust differential feed settings as needed according to your fabric type and desired effect.

4. OPERATING PRINCIPLES (FUNCTION)

The differential feed dog is integral to the fabric feeding mechanism of an overlock machine. Unlike a standard feed dog, a differential feed system uses two independent sets of feed dogs (front and rear) that can move at different speeds. This allows the operator to:

- **Prevent Stretching:** By setting the front feed dog to move faster than the rear, the fabric is slightly stretched as it passes under the needle, ideal for preventing wavy seams on knit fabrics.
- **Prevent Puckering:** By setting the front feed dog to move slower than the rear, the fabric is gathered slightly, which can prevent puckering on fine or slippery fabrics.
- **Create Gathering:** Extreme differential settings can be used to intentionally gather fabric for decorative effects.

The proper functioning of the 277342-16F feed dog ensures consistent and precise fabric handling, which is essential for high-quality overlock stitching.

5. MAINTENANCE

Regular maintenance of the feed dog contributes to the longevity and performance of your industrial overlock machine.

- **Cleaning:** Periodically inspect the feed dog teeth for lint, dust, and fabric fibers. Use a small brush or compressed air to gently clean between the teeth. Accumulation can hinder fabric grip.
- **Inspection:** Check the feed dog for any signs of wear, damage, or bent teeth. Worn or damaged teeth can lead to inconsistent fabric feeding and poor stitch quality. If significant wear is observed, replacement is recommended.
- **Lubrication:** Refer to your Pegasus EX5200 Series machine's service manual for specific lubrication points and schedules related to the feed mechanism. Ensure that no lubricant comes into contact with the feed dog teeth, as this can reduce fabric grip.

6. TROUBLESHOOTING

If you experience issues with fabric feeding after installing or while using the differential feed dog, consider the following:

Problem	Possible Cause	Solution
Fabric not feeding smoothly or unevenly	<ul style="list-style-type: none"> • Incorrect feed dog installation • Lint/debris in feed dog teeth • Worn or damaged feed dog teeth • Incorrect differential feed setting 	<ul style="list-style-type: none"> • Re-check installation and alignment (Section 3) • Clean feed dog teeth (Section 5) • Inspect and replace if necessary (Section 5) • Adjust differential feed knob on machine
Fabric puckering or stretching excessively	<ul style="list-style-type: none"> • Incorrect differential feed setting • Presser foot pressure too high/low 	<ul style="list-style-type: none"> • Adjust differential feed setting (Section 4) • Adjust presser foot pressure according to machine manual

If issues persist after attempting these solutions, consult a professional sewing machine technician or refer to your Pegasus EX5200 Series machine's comprehensive service manual.

7. SPECIFICATIONS

- **Part Number:** 277342-16F
- **ASIN:** B07KX6FRHD
- **Compatibility:** Pegasus EX5200 Series Industrial Overlock Sewing Machines
- **Manufacturer:** Cutex Sewing Supplies (Genuine Pegasus Part)
- **Item Weight:** Approximately 3 ounces
- **Date First Available:** November 28, 2018

8. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for this Cutex Differential Feed Dog (Part #277342-16F), please refer to the documentation provided with your original purchase or contact Cutex Sewing Supplies directly. Ensure you have your purchase details and the part number readily available when seeking support.

For general operation and maintenance of your Pegasus EX5200 Series industrial overlock machine, consult the machine's primary user manual or service guide.