

Walfront WALFRONT9qt4dnzosc

Walfront Sewing Machine Gear Set Instruction Manual

Model: WALFRONT9qt4dnzosc

1. PRODUCT OVERVIEW

The Walfront 4 Pcs Plastic Drive Gear Shaft Gear Set is a comprehensive replacement kit designed for various Singer sewing machine models. This set provides essential gears to restore or maintain the proper functioning of your sewing machine's feed and hook drive mechanisms. Each gear is manufactured from durable plastic, ensuring reliable performance and a precise fit as a direct replacement for original components.



Image 1: Overview of the Walfront 4-piece plastic drive gear set for sewing machines.

2. PACKAGE CONTENTS

Your Walfront Sewing Machine Gear Set package includes the following components:

- 1 x **174491** Large Feed Shaft Gear
- 1 x **174488** Long Feed Drive Gear
- 1 x **163997** Hook Drive Gear
- 1 x **163328** Vertical Shaft Top Gear

This 4 pcs hook drive gear set is perfect combination, all are necessary part for sewing Machine.



Image 2: The gear set is a perfect combination of necessary parts for sewing machines.

3. SPECIFICATIONS

Attribute	Value
Material	Plastic
Weight	75g
Item Model Number	WALFRONT9qt4dnzosc
Date First Available	6 August 2018



Image 3: Dimensions of the individual gears in the set.

4. COMPATIBILITY

This gear set is compatible with a wide range of Singer sewing machine models. Please verify your machine's model number against the lists below to ensure compatibility.

4.1. 174488 Long Feed Drive Gear Compatibility

This gear can replace models 153490, 313920, and 422408. It is suitable for Singer models including, but not limited to:

- 1030, 1036, 1425, 1482, 1485, 1486, 1488, 1490, 1492
- 2000, 2001, 2005, 2010, 2102, 2105, 2106, 2108, 2110, 2112, 2114, 2118
- 2210, 2302, 2303, 2304, 2315, 2330, 2404, 2430, 2502, 2503, 2504, 2515, 2530

- 2623, 2638, 2662, 2712, 2718, 2722, 2724, 2730, 2732, 2950, 290
- 500, 501, 502, 503, 507, 509, 510, 513, 514, 518, 522, 527, 530, 533

4.2. 174491 Large Feed Shaft Gear Compatibility

This gear can replace models 177491 and 422325. It is suitable for Singer models including, but not limited to:

- 290, 495, 500, 501, 502, 503, 507, 509, 510, 513, 514, 518, 522, 527, 530, 533, 534, 538, 543, 553B, 554B
- 714, 720, 724, 734, 737, 740, 750, 755, 756, 758, 760, 763, 764, 770, 774, 775, 776, 778
- 800, 813, 814, 830, 834, 838, 844, 900-3, 920-3, 925
- 1021, 1022, 1030, 1036, 1221, 1425, 1482, 1485, 1486, 1488, 1490, 1492
- 2000, 2001, 2005, 2010, 2102, 2105, 2106, 2108

4.3. 163997 Hook Drive Gear Compatibility

This gear is suitable for Singer models including, but not limited to:

- 417, 502, 518, 620, 625, 628, 629, 630, 630E, 635, 636, 638, 639, 640E, 646, 648, 648E, 649
- 714, 717 School, 719, 724, 734, 737, 750, 755, 756, 758, 770, 774, 775, 776, 778
- 834, 900-3, 920-3, 925, 935U, 1036, 1200, 2000, 2001, 2005, 6704, 6705

5. INSTALLATION AND SETUP

This gear set is intended for replacement of worn or broken gears within compatible Singer sewing machines. Installation typically requires disassembly of parts of the sewing machine. Due to the mechanical nature of sewing machines and the precision required for gear alignment, it is highly recommended to consult your specific sewing machine's original service manual or seek assistance from a qualified sewing machine technician for proper installation.

General Installation Steps (Consult your machine's manual for specifics):

1. **Safety First:** Always unplug your sewing machine from the power outlet before attempting any maintenance or repair.
2. **Access Gears:** Carefully remove the necessary covers and components of your sewing machine to gain access to the gears that need replacement.
3. **Identify and Remove Old Gears:** Locate the worn or broken gears. Note their exact position and orientation before removal. Use appropriate tools to carefully remove the old gears.
4. **Install New Gears:** Place the new Walfront gears into their respective positions. Ensure they are correctly aligned with other components and shafts.
5. **Secure Gears:** Tighten any set screws or fasteners that hold the gears in place. Ensure they are snug but do not overtighten.
6. **Test Movement:** Before reassembling, manually turn the handwheel to check for smooth, unobstructed movement of the newly installed gears.
7. **Reassemble:** Carefully reattach all covers and components removed during disassembly.



Image 4: Detailed view of the gear teeth and construction.

6. OPERATING INSTRUCTIONS

Once the gears are correctly installed, they will function as an integral part of your sewing machine's mechanism. No specific operating instructions are required for the gears themselves beyond ensuring they are properly installed and aligned. Refer to your sewing machine's original user manual for general operating procedures.

After installation, perform a few test stitches on scrap fabric to confirm smooth operation and proper feeding of the material. Listen for any unusual noises or signs of friction, which may indicate improper installation or alignment.

7. MAINTENANCE

Proper maintenance of your sewing machine, including its internal gears, is crucial for longevity and optimal performance. While these plastic gears are durable, they benefit from a clean and lubricated environment.

- **Cleaning:** Periodically clean dust and lint accumulation from around the gears and other moving parts. Use a soft brush or compressed air.
- **Lubrication:** Refer to your sewing machine's original manual for recommended lubrication points and

types of oil. Apply a small amount of sewing machine oil to designated areas as per the manufacturer's guidelines. Avoid over-lubrication.

- **Inspection:** Regularly inspect the gears for any signs of wear, cracks, or damage. Early detection can prevent further issues.

8. TROUBLESHOOTING

If you encounter issues after installing the new gear set, consider the following troubleshooting steps:

- **Machine Not Feeding Fabric:** Check if the feed dog mechanism is moving correctly. Ensure the feed shaft gear (174491) and long feed drive gear (174488) are properly installed and aligned.
- **Skipped Stitches or Irregular Stitching:** This could indicate an issue with the hook timing. Verify the installation and alignment of the hook drive gear (163997) and vertical shaft top gear (163328).
- **Unusual Noises (Grinding, Clicking):** This often points to misaligned gears or debris. Re-check all gear installations for proper seating and ensure no foreign objects are obstructing movement.
- **Machine Jamming or Seizing:** Immediately turn off and unplug the machine. Inspect all gears for any binding or obstruction. Do not force the machine.

Important Warning:



1) Warning

If you find the product damaged, deformed or abnormal performance, please stop using it immediately and contact us.

2) Warnung

Wenn Sie Schäden, Verformungen oder eine abnormale Leistung des Produkts feststellen, stellen Sie die Verwendung sofort ein und kontaktieren Sie uns.

3) Avertissement

Si vous constatez des dommages, une déformation ou une anomalie sur le produit, veuillez cesser de l'utiliser immédiatement et nous contacter.

4) Advertencia

Si encuentra el producto dañado, deformado o con un rendimiento anormal, por favor deje de usarlo inmediatamente y póngase en contacto con nosotros.

5) Ostrzeżenie

Jeśli zauważysz, że produkt jest uszkodzony, zdeformowany lub działa nieprawidłowo, natychmiast przestań go używać i skontaktuj się z nami.

6) Waarschuwing

Als u merkt dat het product beschadigd of vervormd is of niet naar behoren werkt, stop dan met het gebruik ervan en neem contact met ons op.

7) Varning

Om du märker att produkten är skadad, deformerad eller inte fungerar som den ska, ska du sluta använda den och kontakta oss.

8) Attenzione

Se riscontri danni, deformazioni o anomalie nelle prestazioni del prodotto, interrompi immediatamente l'utilizzo e contattaci.

9) Uyarı

Üründe hasar, şekil bozukluğu veya anormal performans bulursanız, lütfen hemen kullanmayı bırakın ve bize ulaşın.

Image 5: Important warning regarding product condition and performance.

If you find the product damaged, deformed, or exhibiting abnormal performance, please stop using it immediately and contact the seller or manufacturer for assistance. Attempting to operate a machine with damaged components can lead to further damage or injury.

9. WARRANTY AND SUPPORT

For any questions regarding the Walfront Sewing Machine Gear Set, including compatibility, installation, or performance issues, please contact the seller or Walfront customer support. Specific warranty details may vary depending on your purchase location and retailer. Please retain your proof of purchase for any warranty claims.

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