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› Supco DE16782E Dryer Drum Roller with Ball Bearing Installation Guide for Samsung Dryers

Supco DE16782E

Supco DE16782E Dryer Drum Roller with Ball Bearing Installation Guide

For Samsung DC97-16782E and compatible models

1. INTRODUCTION

This manual provides detailed instructions for the installation and maintenance of the Supco DE16782E Clothes Dryer Drum Roller with Ball Bearing. This heavy-duty replacement part is designed to restore proper drum rotation in compatible Samsung clothes dryer models, addressing issues such as noise or a non-rotating drum. Please read all instructions carefully before beginning any repair work.

2. PRODUCT DESCRIPTION

The Supco DE16782E is a high-quality replacement drum roller assembly for clothes dryers. It includes a durable drum roller, a shaft, a retaining clip, and grease, all featuring a ball bearing design for smooth and quiet operation. This component is crucial for supporting the dryer drum and allowing it to rotate freely during the drying cycle.



Image 1: The Supco DE16782E dryer drum roller assembly, showing the roller, shaft, and ball bearing.

3. COMPATIBILITY

This Supco DE16782E drum roller is a direct replacement for the following part numbers and is designed to fit specific Samsung manufactured clothes dryer models:

- DC97-16782E
- DC97-16782A
- DC97-16782B
- AP6884453
- PS12720843

Always verify your dryer's model number and the existing part number before purchasing to ensure compatibility.

4. SAFETY INFORMATION

WARNING: Before attempting any repair or maintenance on your dryer, always disconnect the appliance from its power source. Failure to do so can result in electric shock, serious injury, or death. If you are unsure about any step, consult a qualified appliance technician.

- Wear appropriate personal protective equipment, such as gloves, to prevent cuts or scrapes.
- Ensure the work area is well-lit and clear of obstructions.
- Keep children and pets away from the work area.
- Handle tools and parts carefully to avoid damage or injury.

5. INSTALLATION (SETUP)

Replacing a dryer drum roller typically involves disassembling the dryer to access the drum and its support components. The following steps are general guidelines; specific disassembly procedures may vary by dryer model. Refer to your dryer's service manual for precise instructions.

5.1. Tools Required

- Screwdrivers (Phillips and Flathead)
- Nut drivers or socket set
- Pliers
- Work gloves
- Flashlight (optional)

5.2. Installation Procedure

1. **Disconnect Power:** Unplug the dryer from the electrical outlet or turn off the circuit breaker supplying power to the dryer. For gas dryers, also turn off the gas supply valve.
2. **Access the Dryer Interior:** Depending on your Samsung model, this may involve removing the top panel, front panel, or both. Typically, screws are located at the rear or inside the door frame.
3. **Remove the Dryer Belt:** Locate the drive belt that wraps around the drum and the motor pulley. Release the tension on the idler pulley to remove the belt from the drum.
4. **Remove the Dryer Drum:** Carefully lift and remove the dryer drum from the appliance. This may require disconnecting wires or sensors attached to the drum.
5. **Locate Old Drum Rollers:** The drum rollers are usually located at the rear of the dryer cabinet, supporting the drum. There are typically two or four rollers.



Image 2: Top view of the drum roller, showing the ball bearing and mounting points.

6. **Remove Old Rollers:** Use appropriate tools to remove the retaining clip or bolt securing the old drum roller to its shaft. Carefully slide the old roller off. Note the orientation for reassembly.
7. **Install New Rollers:** Apply a small amount of the provided grease to the shaft. Slide the new Supco DE16782E drum roller onto the shaft, ensuring it is properly seated. Secure it with the retaining clip or bolt.



Image 3: Side view of the drum roller, highlighting the shaft and roller assembly.

8. Reassemble Dryer:

- Carefully place the dryer drum back into position, ensuring it rests correctly on the new rollers.
- Reinstall the dryer belt around the drum and motor pulley, ensuring proper tension.
- Reattach any disconnected wires or sensors.
- Reinstall the front and/or top panels, securing all screws.

9. **Reconnect Power:** Plug the dryer back into the electrical outlet or turn on the circuit breaker. For gas dryers, turn on the gas supply valve.

6. OPERATING (POST-INSTALLATION TEST)

After installation, it is important to test the dryer to ensure the new drum roller is functioning correctly and that all components have been reassembled properly.

1. Run a short cycle with no load. Listen for any unusual noises, such as squealing, grinding, or thumping.
2. Observe if the drum rotates smoothly and consistently.
3. If any issues are detected, immediately disconnect power and re-check your installation steps. Ensure the belt is properly aligned and tensioned, and that the drum is seated correctly on the rollers.

7. MAINTENANCE

The Supco DE16782E drum roller is designed for durability. Regular maintenance of your dryer can help prolong the life of all its components, including the drum rollers.

- **Clean Lint Filter:** Clean the lint filter after every load to maintain airflow and prevent overheating, which can stress dryer components.
- **Inspect Venting:** Periodically check and clean the dryer's exhaust vent to ensure proper airflow.
- **Avoid Overloading:** Do not overload the dryer, as this can put excessive strain on the drum rollers and motor.
- **Listen for Noises:** Pay attention to any new or unusual noises during dryer operation, as these can indicate a developing issue with rollers or other parts.

8. TROUBLESHOOTING

If you experience issues after installing the new drum roller, consider the following:

- **Drum Not Turning:**
 - Check if the dryer belt is properly installed and tensioned.
 - Ensure the drum is correctly seated on all rollers.
 - Verify that the motor is functioning.
- **Squealing or Grinding Noise:**
 - Confirm that the new rollers are properly lubricated with the provided grease.
 - Check for any foreign objects caught between the drum and the cabinet.
 - Ensure the rollers are securely fastened and not loose.
- **Thumping Noise:**
 - This could indicate an unbalanced drum or an issue with other support components. Re-check drum seating.

If problems persist, it is recommended to consult a professional appliance technician.

9. SPECIFICATIONS

Attribute	Detail
Model Number	DE16782E
Brand	Supco
Item Weight	4 ounces
Package Dimensions	3.5 x 3.5 x 1.5 inches
Replaces Part Numbers	DC97-16782E, DC97-16782A, DC97-16782B, AP6884453, PS12720843
Bearing Type	Ball Bearing

10. WARRANTY AND SUPPORT

Specific warranty information for the Supco DE16782E drum roller is typically provided by the retailer or manufacturer at the time of purchase. Please refer to your purchase documentation or contact Supco directly for details regarding warranty coverage.

For technical support or further assistance, please contact the Supco customer service department or the retailer from whom you purchased this product. Always provide your product model number (DE16782E) and any relevant dryer model

information when seeking support.

ASK A QUESTION ABOUT THIS MANUAL

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