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Leegol Electric PG-LG-001RN

Leegol Electric 3LB Rock Tumbler Instruction Manual

Model: PG-LG-001RN

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation, maintenance, and troubleshooting of your Leegol Electric 3LB Rock Tumbler. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.



Image 1.2: Examples of various polished stones and creative uses for tumbled rocks, such as jewelry and decorative art.

2. SAFETY INSTRUCTIONS

Always follow these safety precautions to prevent injury or damage to the product.

- **Electrical Safety:** Ensure the tumbler is connected to a grounded outlet. Do not operate with wet hands or near water. Unplug the unit when not in use or before cleaning.
- **Placement:** Place the tumbler on a stable, level surface away from edges. Ensure adequate ventilation around the unit to prevent overheating.
- **Supervision:** This product is not a toy. Adult supervision is recommended, especially when children are present.
- **Barrel Handling:** The barrel can become heavy when filled with rocks and water. Handle with care to avoid dropping. Ensure the lid is securely fastened before operation to prevent leaks.
- **Maintenance:** Only perform maintenance as described in this manual. Do not attempt to modify or repair the unit yourself. Contact customer support for assistance.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Leegol Electric Rock Tumbler Base
- 3LB Leak-proof Rubber Barrel with Lid
- Instruction Manual (this document)

Note: Abrasive grits and rough rocks are typically sold separately and are not included with the tumbler unit.

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your rock tumbler.



Image 4.1: Overview of the Leegol Electric Rock Tumbler, highlighting the 3LB tumbler barrel and the On/Off-Reset switch.

- **Tumbler Base:** The main unit housing the motor and drive mechanism.
- **3LB Rubber Barrel:** The container where rocks are tumbled. It features a leak-proof design with a double stainless steel top cover.
- **On/Off-Reset Switch:** Controls power to the unit and can be used to reset settings if applicable.
- **Drive Belt:** Connects the motor to the barrel rollers, enabling rotation.

5. SETUP

1. **Unpack:** Carefully remove all components from the packaging. Retain packaging for future storage or transport.
2. **Placement:** Position the tumbler base on a firm, level, and stable surface. Ensure it is in an area with good ventilation and away from direct sunlight or heat sources.
3. **Inspect Drive Belt:** Before first use, check that the drive belt is properly seated on the motor pulley and the barrel rollers. It should be taut but not overly tight.

4. **Power Connection:** Plug the power cord into a standard 120V AC grounded electrical outlet.

6. OPERATING INSTRUCTIONS

The rock tumbling process typically involves several stages, each using a progressively finer grit. A complete cycle can take 4-6 weeks.



Image 6.1: Illustration of adding rough rocks and abrasive media into the tumbler barrel for the tumbling process.

1. **Prepare Rocks:** Select rough rocks that are suitable for tumbling. Clean them thoroughly to remove any loose dirt or debris.
2. **Load Barrel:** Fill the barrel approximately 2/3 full with your chosen rocks. A mix of different sizes is recommended for better tumbling action.
3. **Add Grit and Water:** Refer to your grit manufacturer's instructions for the correct amount of abrasive grit for a 3LB barrel. Add the grit, then add water until it just covers the top layer of rocks. Leave some air space for tumbling action.
4. **Seal Barrel:** Securely place the lid on the barrel. Ensure the double stainless steel top cover is tightly sealed to prevent any leakage during operation.
5. **Place Barrel on Tumbler:** Carefully place the sealed barrel onto the rollers of the tumbler base. Ensure it sits centrally and can rotate freely.
6. **Start Tumbling:** Turn the On/Off-Reset switch to the 'On' position. The barrel will begin to rotate.
7. **Monitor:** Allow the tumbler to run continuously for the duration specified by your grit manufacturer (typically 7-10 days per stage). Periodically check for proper rotation and listen for unusual noises.
8. **Clean and Repeat:** After each stage, turn off the tumbler, unplug it, and carefully remove the barrel. Open the barrel and thoroughly clean the rocks and the inside of the barrel to remove all traces of the previous grit. Proceed to the next stage with finer grit and fresh water.
9. **Final Polish:** After the final polishing stage, clean the rocks and barrel thoroughly. Your rocks should now be

smooth and shiny.

7. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your Leegol Electric Rock Tumbler.

- **Cleaning the Barrel:** After each tumbling stage, thoroughly wash the inside and outside of the barrel to remove all grit residue. Grit can damage the barrel and the tumbler mechanism if not removed.
- **Cleaning the Base:** Periodically wipe down the tumbler base with a damp cloth. Ensure no water enters the motor housing.
- **Belt Inspection and Replacement:** Inspect the drive belt regularly for wear, cracks, or stretching. If the belt appears worn or the barrel is not rotating consistently, replace the belt. Replacement belts can be purchased from authorized dealers.
- **Lubrication:** Apply a drop or two of light machine oil (e.g., mineral oil) to the motor bushings and where the rotary parts meet other metal components every few months or as needed. **Do not apply oil to the drive belt or gears.**
- **Airflow:** Ensure the motor housing vents are clear of dust and debris to maintain proper airflow and prevent overheating.

8. TROUBLESHOOTING

If you encounter issues with your tumbler, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Barrel not rotating or rotating slowly	<ul style="list-style-type: none">• Loose or worn drive belt• Overloaded barrel• Motor issue	<ul style="list-style-type: none">• Check and adjust/replace drive belt.• Reduce the amount of rocks in the barrel.• Contact customer support if motor is faulty.
Loud noise or grinding sound	<ul style="list-style-type: none">• Barrel rubbing against base• Worn motor or bearings• Rocks too large or unevenly distributed	<ul style="list-style-type: none">• Ensure barrel is centered on rollers.• Lubricate moving parts (excluding belt/gears).• Adjust rock load; use smaller rocks or a mix of sizes.
Barrel leaking	<ul style="list-style-type: none">• Lid not sealed properly• Damaged barrel or lid seal	<ul style="list-style-type: none">• Ensure lid is tightly secured.• Inspect barrel and lid for cracks or damage; replace if necessary.
Tumbler stops unexpectedly	<ul style="list-style-type: none">• Overheating• Power interruption• Motor overload	<ul style="list-style-type: none">• Unplug and allow to cool. Ensure proper ventilation.• Check power connection.• Reduce barrel load.

If the problem persists after attempting these solutions, please contact Leegol Electric customer support.

9. SPECIFICATIONS

warranty claims, please contact Leegol Electric customer service.

Customer Service: Refer to the contact information provided with your purchase or visit the official Leegol Electric website for support details.