

Flex LBE 17-11 125 (447668)

Flex LBE 17-11 125 Angle Grinder User Manual

Model: LBE 17-11 125 (447668)

1. PRODUCT OVERVIEW

The Flex LBE 17-11 125 is a powerful and high-quality angle grinder designed for cutting, deburring, and grinding tasks. It incorporates advanced features for enhanced performance, safety, and durability.

- **Microprocessor Electronics:** Features soft start, restart interlock after power failure, overload protection, and constant electronics (CDC) for consistent performance.
- **Mechanical Brake:** Ensures the tool stops quickly, within 3.5 seconds, for increased safety.
- **Anti-Kickback Function:** Automatically switches off the motor if the disc jams, preventing dangerous kickback.
- **High-Capacity Motor:** Designed for high load capacity and efficiency, delivering strong power output.
- **Optimized Durability:** Efficient air ducting and optimized carbon geometry contribute to a long service life.
- **Dust Sealing:** Sophisticated dust sealing protects the motor and gearbox from abrasive dust.
- **Ergonomic Design:** Compact and ergonomic form for comfortable handling.
- **Tool-Free Guard Adjustment:** The protective guard can be adjusted without the need for additional tools.
- **SoftVib Handle:** Features an integrated patented clamping nut wrench and vibration damping for reduced fatigue.

2. SAFETY INSTRUCTIONS

Always observe general power tool safety warnings and specific instructions for angle grinders. Failure to follow these warnings and instructions may result in electric shock, fire, and/or serious injury.

General Safety

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, gloves, and a dust mask.
- Ensure the workpiece is securely clamped before operation.
- Keep hands clear of rotating parts and the cutting/grinding area.
- Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep children and bystanders away while operating a power tool.

Electrical Safety

- Ensure the power supply voltage matches the rating on the tool's nameplate.
- Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts.

- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.

Specific Angle Grinder Safety

- Always use the protective guard. Ensure it is correctly positioned and securely fastened.
- Use only discs that are rated for the maximum speed of the grinder and are suitable for the material being worked on.
- Never use cutting discs for side grinding.
- Be aware of the anti-kickback feature; if the disc jams, the motor will shut off. Release the switch and clear the obstruction before restarting.
- Allow the disc to come to a complete stop using the mechanical brake before setting the tool down.

3. COMPONENTS AND FEATURES



Figure 1: The Flex LBE 17-11 125 Angle Grinder. This image shows the overall design of the angle grinder, including the main body, the protective guard, the attached SoftVib handle, and a grinding disc. The red and black color scheme with silver accents is visible.



Figure 2: Close-up of the speed selection dial. This image highlights the variable speed control dial, labeled with numbers (e.g., '3' is visible), located on the top of the grinder's body. This allows users to adjust the RPM for different applications.

Key Components:

1. **Main Body:** Houses the motor, electronics, and gearbox.
2. **Protective Guard:** Adjustable, tool-free guard for user protection.
3. **SoftVib Handle:** Ergonomic side handle with vibration damping and integrated wrench.
4. **Spindle Lock Button:** For easy disc changes.
5. **Slide Switch:** Lockable for continuous operation.
6. **Speed Selection Dial:** For variable speed control (see Figure 2).
7. **Air Vents:** For motor cooling and dust expulsion.

4. SETUP

Attaching the SoftVib Handle

The SoftVib handle can be screwed into either the left or right side of the gearbox housing, depending on user preference and application. Ensure it is tightened securely.

Mounting the Protective Guard

The protective guard is tool-free adjustable. Position it to provide maximum protection for your specific task. Ensure it clicks securely into place.

Installing the Grinding/Cutting Disc

1. Unplug the tool from the power supply.
2. Press and hold the spindle lock button.
3. Place the inner clamping flange onto the spindle.
4. Place the desired 125mm disc onto the inner flange, ensuring it sits flush.
5. Screw on the clamping nut (M14) and tighten it firmly using the integrated wrench in the SoftVib handle.
6. Release the spindle lock button.

5. OPERATING INSTRUCTIONS

Powering On/Off

- To switch on, push the slide switch forward. For continuous operation, push it further forward until it locks into place.
- To switch off, release the slide switch. If locked, press the rear part of the switch to release it.

Variable Speed Control

The speed selection dial (Figure 2) allows you to adjust the no-load speed between 2800 and 11500 rpm. Select the appropriate speed for the material and application. Lower speeds are generally used for polishing or working with sensitive materials, while higher speeds are for cutting and grinding.

Using the Mechanical Brake

The integrated mechanical brake stops the disc within 3.5 seconds after the tool is switched off. This enhances safety by quickly stopping rotation.

Working with the Grinder

- Always hold the grinder firmly with both hands.
- Allow the tool to reach full operating speed before contacting the workpiece.
- Apply steady, even pressure. Do not force the tool, as this can lead to overheating or disc damage.
- For cutting, use a slight rocking motion to prevent the disc from binding.
- Be mindful of sparks and debris. Direct them away from yourself and others.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Flex angle grinder.

Cleaning

- Always unplug the tool before cleaning.
- Regularly clean the ventilation slots to prevent dust buildup, which can lead to overheating. Use compressed air if available.
- Wipe the exterior of the tool with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

Carbon Brushes

The optimized carbon geometry contributes to long brush life. If the tool's performance significantly drops or sparks excessively, the carbon brushes may need inspection or replacement. This should ideally be done by a qualified service technician.

Storage

Store the angle grinder in a dry, secure place, out of reach of children and unauthorized users.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	No power supply Restart interlock activated (after power failure) Damaged power cord	Check power connection Unplug and re-plug the tool Inspect cord for damage; replace if necessary (by qualified personnel)
Tool stops during operation	Overload protection activated Disc jammed (anti-kickback activated)	Reduce pressure; allow tool to cool Release switch, clear obstruction, then restart
Excessive vibration	Worn or damaged disc Improperly mounted disc Loose handle	Replace disc Re-mount disc correctly, ensure clamping nut is tight Tighten SoftVib handle
Reduced performance / Excessive sparking	Worn carbon brushes Dust buildup in vents	Have brushes inspected/replaced by service center Clean air vents thoroughly

8. SPECIFICATIONS

Characteristic	Value
Model Number	447668
Power Input	1700 W
Power Output	1050 W
Voltage	230 V

Characteristic	Value
Frequency	50/60 Hz
Max. Disc Diameter	125 mm
No-load Speed	2800-11500 rpm
Tool Holder (Angle Grinder)	M14
Cable Length	4 m
Dimensions (L x W x H)	340 x 77 x 105 mm
Weight	2.6 kg
Color	Red, Black, Silver
Material	Metal

9. WARRANTY AND SUPPORT

Specific warranty details for this product may vary by region and retailer. Please refer to the warranty card included with your purchase or contact your point of sale for precise information.

Regarding spare parts availability, information is currently unavailable. For technical support, service, or inquiries about replacement parts, please contact Flex customer service or an authorized Flex service center in your region. Contact details can typically be found on the official Flex website or on your product packaging.