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› Ingco AG8006-2 Angle Grinder Instruction Manual

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Ingco AG8006-2 Angle Grinder Instruction Manual

Model: AG8006-2

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1. SAFETY INFORMATION

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings

- **Work Area Safety:** Keep work area clean and well lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed. Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Specific Angle Grinder Safety:** Always use a guard that is correctly attached and adjusted for the specific grinding or cutting disc. Ensure the auxiliary handle is securely fastened before operation. Wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, gloves, and a dust mask.

2. PRODUCT OVERVIEW

The Ingco AG8006-2 is an 800W angle grinder designed for various grinding and cutting tasks. Familiarize yourself with its components before operation.



Figure 2.1: Main unit of the Ingco AG8006-2 Angle Grinder. This image displays the compact design and primary components of the tool, including the motor housing, gear head, and spindle.

Components:

1. **Spindle Lock Button:** Used to lock the spindle for disc changes.
2. **Auxiliary Handle:** Provides additional grip and control during operation. Can be mounted on either side.
3. **Disc Guard:** Protects the user from sparks and debris. Adjustable.
4. **On/Off Switch:** Activates and deactivates the tool.
5. **Power Cord:** Connects the tool to the electrical supply.
6. **Grinding/Cutting Disc (not included):** The abrasive disc used for material removal or cutting.

3. SETUP

Before using the angle grinder, ensure it is properly assembled and all safety features are in place.

3.1 Unpacking

Carefully remove the angle grinder and all accessories from the packaging. Inspect for any damage that may have occurred during transit. Do not operate a damaged tool.

3.2 Attaching the Auxiliary Handle

1. Identify the threaded holes on both sides of the gear housing.
2. Screw the auxiliary handle firmly into the desired side (left or right) for comfortable operation. Ensure it is tightened securely.

3.3 Mounting the Grinding/Cutting Disc

1. **Ensure the tool is unplugged from the power source.**
2. Press and hold the spindle lock button.
3. Place the inner flange onto the spindle.
4. Position the grinding or cutting disc onto the inner flange, ensuring it sits flush. The disc must be rated for the grinder's RPM and disc diameter (100mm).
5. Screw the outer flange (nut) onto the spindle.
6. While still holding the spindle lock button, use the provided spanner wrench to firmly tighten the outer flange. Release the spindle lock.

3.4 Adjusting the Disc Guard

The disc guard must always be positioned to provide maximum protection from sparks and debris, directing them away from the user. Loosen the guard's clamping screw, rotate the guard to the desired position, and then securely tighten the screw.

4. OPERATING INSTRUCTIONS

Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, gloves, and a dust mask before operating the angle grinder.

4.1 Powering On/Off

- **To Turn On:** Plug the tool into a suitable power outlet (220-240V~50/60Hz). Press the On/Off switch. Some models may have a slide switch that locks into the ON position; press the rear of the switch to release it to OFF.
- **To Turn Off:** Release the On/Off switch. If it's a locking slide switch, press the rear of the switch to disengage the lock.

4.2 Grinding Techniques

Hold the grinder firmly with both hands. Allow the disc to reach full speed before contacting the workpiece. Apply light, even pressure. Do not force the tool. Maintain a shallow angle (typically 15-30 degrees) between the disc and the workpiece for grinding.



Figure 4.1: Demonstrating the angle grinder in use for cutting wood. Observe the proper grip and direction of sparks, indicating safe operation.

4.3 Cutting Techniques

For cutting, use a thin cutting disc. Hold the grinder so the disc enters the material at a 90-degree angle. Do not apply side pressure to the cutting disc, as this can cause it to bind or shatter. Allow the weight of the tool to do most of the work. Ensure the workpiece is securely clamped.



Figure 4.2: An angle grinder being used to cut concrete. This illustrates the tool's capability for heavy-duty cutting tasks on hard materials, emphasizing the need for proper technique and safety gear.

4.4 Material Considerations

Always use the correct type of disc for the material you are working on (e.g., metal grinding disc, metal cutting disc, masonry disc). Using the wrong disc can lead to poor performance, disc damage, or injury.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Inco AG8006-2 angle grinder. Always unplug the tool before performing any maintenance.

5.1 Cleaning

- After each use, clean the tool with a soft cloth to remove dust and debris.
- Use compressed air to blow out dust from the ventilation openings. Do not allow metal dust to accumulate, as it can cause electrical hazards.
- Do not use water or chemical cleaners.

5.2 Disc Inspection and Replacement

- Regularly inspect grinding and cutting discs for cracks, chips, or excessive wear.
- Replace damaged or worn discs immediately. Never use a damaged disc.
- Ensure replacement discs match the specifications of the tool (100mm diameter, M10 spindle thread, appropriate RPM rating).

5.3 Carbon Brush Replacement (General Guidance)

Carbon brushes are wear items and will need replacement over time. When the brushes wear down, the motor may spark excessively or lose power. Refer to a qualified service technician for carbon brush replacement if you are not experienced with internal power tool maintenance.

5.4 Storage

Store the angle grinder in a dry, secure place out of reach of children. Ensure the power cord is neatly coiled and not kinked.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Ingco AG8006-2 angle grinder.

| Problem | Possible Cause | Solution |
|-------------------------------------|---|---|
| Tool does not start | No power supply; Faulty switch; Worn carbon brushes. | Check power connection and outlet. Ensure switch is fully engaged. If problem persists, consult a service technician. |
| Excessive vibration | Damaged or improperly mounted disc; Loose flanges; Worn bearings. | Inspect and replace disc if damaged. Ensure disc and flanges are securely tightened. If vibration continues, seek professional service. |
| Reduced power or excessive sparking | Worn carbon brushes; Overload. | Carbon brushes may need replacement (consult technician). Reduce load on the tool. |
| Disc not spinning freely | Spindle lock engaged; Obstruction. | Ensure spindle lock is released. Check for any debris obstructing the disc. |

7. SPECIFICATIONS

Technical specifications for the Ingco AG8006-2 Angle Grinder.

Brand: Ingco

Model Number: AG8006-2

Voltage: 220-240V~50/60Hz

Input Power: 800W

No-load Speed: 11000rpm

Disc Diameter: 100mm

Spindle Thread: M10

Item Weight: 3900 Grams

Features: Includes 1pcs auxiliary handle

8. WARRANTY AND SUPPORT

For warranty information, service, or technical support, please contact your local Ingco dealer or visit the official Ingco website. Keep your purchase receipt as proof of purchase for warranty claims.

Ingco Official Website: www.ingcotools.com

