

## Chicago Electric 68696

# Heavy Duty Variable Speed Rotary Tool Kit

MODEL: ITEM#68696

## 1. Product Overview

The Chicago Electric Heavy Duty Variable Speed Rotary Tool Kit is a versatile power tool designed for a wide range of applications including shaping, sanding, deburring, grinding, and polishing. This 31-piece kit provides the necessary accessories to tackle various projects involving metal, plastic, and wood.



This image displays the Chicago Electric Heavy Duty Variable Speed Rotary Tool, a corded electric device, alongside its comprehensive 31-piece accessory kit. The tool itself is red and black, featuring a variable speed control thumbwheel and a power switch. Surrounding the tool are various attachments, including sanding discs, sanding drums, grinding stones, cut-off wheels, diamond burrs, mandrels, buffing wheels, a square stone dresser, a wire wheel brush, a drill bit, a soft brush, and a wrench, all neatly arranged to showcase the kit's versatility.

## 2. Safety Instructions

Always prioritize safety when operating power tools. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- **Work Area Safety:** Keep the 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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- **Personal Safety:** Always wear appropriate eye protection, such as safety goggles or a face shield, to protect against flying debris. Use hearing protection when operating the tool for extended periods. Dress properly; avoid loose clothing, jewelry, or long hair that can get caught in moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Specific Rotary Tool Safety:** Secure the workpiece firmly before beginning operation. Avoid touching rotating accessories. Ensure the accessory is properly installed and tightened before use.

### 3. Included Components (31 Pieces)

Your kit includes the following items:

- 1 x Rotary Tool
- 1 x 1/16 inch Collet
- 1 x 1/8 inch Collet
- 6 x Sanding Discs
- 5 x Sanding Drums
- 4 x Grinding Stones
- 3 x Cut Off Wheels
- 2 x Diamond Burrs
- 2 x Mandrels
- 1 x Buffing Wheel
- 1 x Square Stone Dresser
- 1 x Wire Wheel Brush
- 1 x Drill Bit
- 1 x Soft Brush
- 1 x Wrench

### 4. Setup

Follow these steps to set up your rotary tool:

1. **Unpack:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Select Collet:** Choose the appropriate collet (1/16 inch or 1/8 inch) that matches the shank size of the accessory you intend to use.
3. **Install Collet:** Unscrew the collet nut from the tool. Insert the chosen collet into the collet nut.
4. **Insert Accessory:** Place the accessory (e.g., grinding stone, sanding drum) into the collet, ensuring it is fully seated.
5. **Tighten Collet Nut:** Screw the collet nut back onto the tool. Use the provided wrench to securely tighten the collet nut, ensuring the accessory is firmly held. Do not overtighten.

6. **Power Connection:** Ensure the tool's power switch is in the 'OFF' position before plugging the tool into a standard 120V AC electrical outlet.

## 5. Operating Instructions

Operating your rotary tool is straightforward:

1. **Power On/Off:** To turn the tool ON, slide the power switch to the 'ON' position. To turn it OFF, slide the switch to the 'OFF' position.
2. **Adjust Speed:** The tool features a variable speed control. Use the convenient thumbwheel speed adjuster to set the desired RPM, ranging from 8,000 RPM to 35,000 RPM. Start with a lower speed for delicate work or when learning, and gradually increase as needed for harder materials or faster material removal.
3. **Begin Work:** Hold the tool firmly and approach the workpiece steadily. Apply light, consistent pressure. Allow the tool's speed to do the work; excessive force can lead to poor results, tool damage, or injury.
4. **Application Tips:**
  - **Sanding/Grinding:** Move the tool smoothly over the surface. For best results, use a consistent motion.
  - **Cutting:** Use cut-off wheels for precise cuts. Ensure the workpiece is stable.
  - **Polishing:** Apply polishing compound to the buffing wheel and gently work on the surface.
  - **Drilling:** Use appropriate drill bits for the material. Apply steady, even pressure.
5. **Cool Down:** For prolonged use, allow the tool to cool periodically to prevent overheating.

## 6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your rotary tool:

- **Cleaning:** After each use, disconnect the tool from power and clean the exterior with a soft, damp cloth. Use a brush or compressed air to clear dust and debris from the ventilation openings.
- **Accessory Inspection:** Regularly inspect all accessories for wear, damage, or dullness. Replace worn or damaged accessories immediately to ensure safe and effective operation.
- **Collet Care:** Keep collets clean and free of debris to ensure proper gripping of accessories.
- **Storage:** Store the tool and its accessories in the provided blow mold case in a clean, dry place, out of reach of children.

## 7. Troubleshooting

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

- **Tool Does Not Turn On:**
  - Ensure the tool is securely plugged into a live 120V AC outlet.
  - Check the power switch is in the 'ON' position.
  - Verify the circuit breaker or fuse for the outlet has not tripped.
- **Excessive Vibration or Noise:**
  - Ensure the accessory is properly inserted and securely tightened in the collet.
  - Check if the accessory is bent, damaged, or worn. Replace if necessary.
  - Verify the collet is clean and free of debris.
- **Tool Overheats:**

- Avoid continuous heavy-duty operation. Allow the tool to cool down periodically.
- Ensure ventilation openings are clear of dust and debris.
- Do not apply excessive pressure during operation.

• **Poor Performance / Slow Speed:**

- Adjust the variable speed thumbwheel to a higher RPM setting.
- Ensure the accessory is not dull or worn. Replace if needed.
- Reduce the pressure applied to the workpiece.

If problems persist after attempting these solutions, contact customer support.

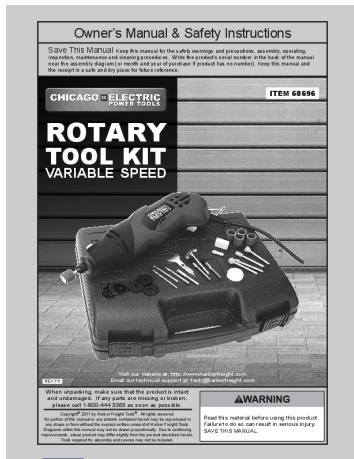
8. Specifications

Feature	Specification
Brand	Chicago Electric
Model Number	68696
Voltage	120V AC
Wattage	160 Watts
Minimum Speed	8,000 RPM
Maximum Speed	35,000 RPM
Collet Sizes	1/16 in. and 1/8 in.
Product Weight	2.7 lbs
Certification	UL

9. Warranty and Support

For information regarding warranty coverage, technical support, or replacement parts, please refer to the product packaging or contact Chicago Electric customer service directly. Keep your purchase receipt as proof of purchase.





## [\[pdf\]](#) User Manual Owner's Manual Instructions Diagram

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