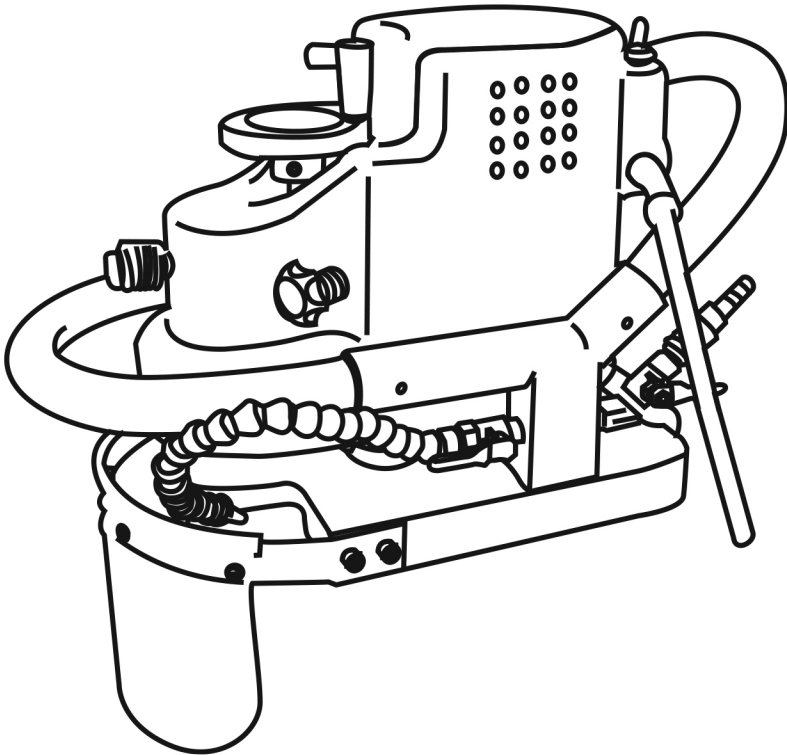




# **EDGE GRINDING MACHINE VARIABLE SPEED ROUTER**

## **OPERATING MANUAL**



# **HD-850**

Voltage: 110V, 60Hz

Power: 2000 Watts

Speed: 1000-8500 RPM

**GENERAL SAFETY AWARENESS**

1. Keep the working space tidy, clean and adequate for router usage to avoid any accidents.
2. Ensure your power tools are not exposed to or stored in direct sunlight, dampness or wet locations. Also make sure that there aren't any flammable or combustible liquids or gases in the environment such as lacquer, paint, benzene, thinner, gasoline and adhesive agents. Presence of these materials in the working environment may cause sparks which can result in fire hazard.
3. Take appropriate safety measures to avoid electrocution hazard. Don't let your body parts get in contact with business parts of the power tool or equipment including radiators, pipes, ranges and refrigeration enclosures.
4. Keep children and visitors away from the working area and your power tools and equipment to avoid any accidents.
5. Tools that are not in use should be stored safely in a dry, cool and high place that is out of reach for children.
6. Don't try to extract additional performance from the tool by exerting force. Let the power tool achieve its optimal performance naturally.
7. Always use the power tool that is appropriately powerful and adequate for the job at hand. Never use light duty tools for heavy duty tasks; it can be hazardous for both the tool and the operator.
8. Wear appropriate clothes and safety equipment. Keep loose clothing, body parts and hair away from the moving parts of the tool. It's recommended to use protective hair covering.
9. Loose all the accessories including jewelry before operating the tool. Wear protective goggles, gloves, footwear and other equipment where necessary.
10. Never abuse the electrical cord of the tool. Do not pull it to unplug the tool. Keep cords away from oil, oil receptacles, heat, dampness and sharp corners.
11. Safety is monumental when operating the router. Use a vise or clamp to safely hold the work piece during operation.
12. Never try to overreach. Keep your posture comfortable and balanced at all times.
13. Maintain your tools with care and repair or replace when necessary. Follow the instruction manuals and don't forget to lubricate and/or replace the accessories when required. Check tool cords and extension cords periodically for any damages and if necessary, get them repaired from an authorized servicing agency or replace them with original cord(s). Always keep handles and grips dry and free from dirt and grease.
14. Whenever you need to make a replacement or change an accessory during operation, always switch off and unplug the tool.
15. Make it a habit to check and remove any wrenches or keys from the tool before turning it on. Mounted key or wrench can cause serious damage.
16. Never roam around with the tool plugged in and your finger on the trigger to avoid accidental starts. Switch it off after every use.
17. When working outdoors, you may need extension cords to increase your tool's reach. In such situations, only use cords made and marked for outdoor usage.
18. Keep yourself alert and aware at all times. Never operate tool when tired or under influence of alcohol or drugs.
19. Before every use, make it a habit of checking the tool for any damages especially parts intended for safety. If necessary repair or replace the damaged parts before continuing the operation.
20. Check your tool for alignment and binding of moving parts, damaged parts, mounting and any other flaws that might affect the operation of your tool.
21. Parts meant for safety and switches shall only be repaired or replaced by an authorized service center unless there are instructions otherwise in the manufacturer's tool manual. Never use the tool if its switch doesn't work.
22. Never use the tool for anything other than the applications that have been specified by the manufacturer.
23. To maintain the design and manufacturing integrity of your tool, never remove installed covers, guards and/or screws from the tool.
24. Never touch the moving parts of the tool unless the tool is unplugged.
25. It is recommended to use your tool at slightly lower power than claimed by the manufacturer to keep the tool in optimal condition in terms of performance and durability.
26. Ensure that your tool is rated for the same voltage as your power source. Voltage incompatibility between tool and power source will damage the tool.
27. Ensure your tool accepts the safety switch and cable. To clean the plastic parts of your tool, use a soft cloth dampened in soap water.

## OPERATING GRINDING MACHINE

1. Only use diamond grinding wheels in this tool.
2. Do not use this tool for grinding metals as it reduces the quality and life of diamond grinding wheel.
3. Take appropriate safety measures to avoid electrocution hazard. Install a safety transformer or circuit breaker.
4. Check the direction of rotation of grinding wheel and ensure it's rotating in the right direction.
5. Store your tool in cool and dry place.
6. Don't forget to use protective glasses during operation.
7. Before starting the grinding operation, always inspect and test the grinding wheel. In the event of any irregular vibrations or malfunction, stop the operation right away and fix the issue before restarting.
8. Don't start grinding until the tool reaches its top speed.
9. Don't try to extract additional performance from the tool by exerting force.
10. Never let any body part or loose clothing get in contact with the grinding wheel during operation.
11. Always keep an eye on what you're doing and ensure safety at all times.
12. Maintain your power tool and keep it clean.

## SPECIFICATIONS:

Voltage: 110Volts

Power: 2000W

No-Load Revolution Speed: 1000-8500 RPM

Maximum Stone Thickness: 1-1/2"

Diamond Grinding Wheel External Diameter: 4"

## INCLUDED ACCESSORIES:

1. 8mm Wrench
2. Retaining Water Rubber Slice

## PRECAUTIONS

- Ensure that your tool is rated for the same voltage as your power source. Voltage incompatibility between tool and power source will damage the tool.
- Ensure that power switch works properly. Never use tools with damaged switch or the ones that start accidentally.
- When working outdoors, you may need extension cords to increase your tool's reach. In such situations, only use cords made and marked for outdoor usage.

## WATER SUPPLY SYSTEM ASSEMBLY

- Using water supply makes operation smooth and extends tool's life.
- Let the vinyl hose plug in the connection inlet.
- User may regulate the water supply using the lever. Turning the lever toward the vinyl hose opening side, the water outlet will be completely opened for maximum water supply. Turning it 90 degrees to the left, it will be shut off.
- Water tank should be located at least 3 Ft. above the working surface.

## INSTALLATION OF DIAMOND GRINDING WHEEL

**CAUTION!** Ensure the tool is unplugged from the power source. Turn off the water supplies and operate below in arid areas.

1. For grinding the work piece of 2 cm into a 1/4 circle, select a 98mm x 1OR x 1/4 grinding wheel.
2. All of the screws on the wheels are 8 mm x 1.25.
3. Screws pierce through the movable wheel along with bearings and go through the grinding wheel center and then screws on the edge machine. At this point, the tool edge should be facing downwards. The movable wheel with bearing should be free to rotate once the grinding wheel has been screwed.
4. Once grinding wheel is attached, the tool bit put closed by the workable piece, and adjust model with working.
5. Slack the fixed wrenches and make the axle center free to adjust. In addition, adopt hand regulation for axle center. After ensuring the correct distance, lock the fixed wrenches once again and ensure you have the same model while working.
6. While testing, adjust the water supply to the grinding wheel center which is more convenient.

**HOW TO OPERATE**

1. Put the machine on the stone surface flat & turn on the water.
2. Turn the power switch on.
3. Water flow will reduce the friction on the stone surface when grinding.
4. Hold the machine with both hands. Grip above the grinding wheel is required to operate. It can affect the efficiency of your operation.
5. Cutting in the workpiece with 40 degree angle is optimal.
6. Test your tool before starting your operation.
7. Operation will remain the same regardless of whether the stone flank is a straight line or an irregular curve.

**PRECAUTIONS**

- Ensure that diamond grinding wheel has reached top speed before operation.
- If grinding wheel stops rotating or has any irregular vibrations or shakes, turn the tool off immediately.
- Keep tool cords away from diamond grinding wheel.
- Once the work is done, unplug the tool right away.

**MAINTENANCE****INSPECT DIAMOND GRINDING WHEELS**

Don't use sub standard diamond grinding wheel as it will affect the electrical motor reducing its functional efficiency. Once the grinding wheel has been damaged, replace it right away with a new one.

**INSPECT AND INSTALL SCREWS**

Ensure that screws are fastened tightly; loose screws can invite accidents and personal injuries.

**TOOL MAINTENANCE**

Motor is the core part of the tool. Inspect it carefully from time to time and keep moisture, water, oil and grease away from it. Before every operation, turn on the tool for a minute to let it warm up.

**INSPECT CARBON BRUSHES**

The motor uses carbon brushes that are consumable. Since an excessively used carbon brush could result in motor damage, replace the damaged carbon brush with a new one that has the same brush number shown in the figure. Moreover, always keep carbon brushes clean and ensure that they slide freely within the brush holders.

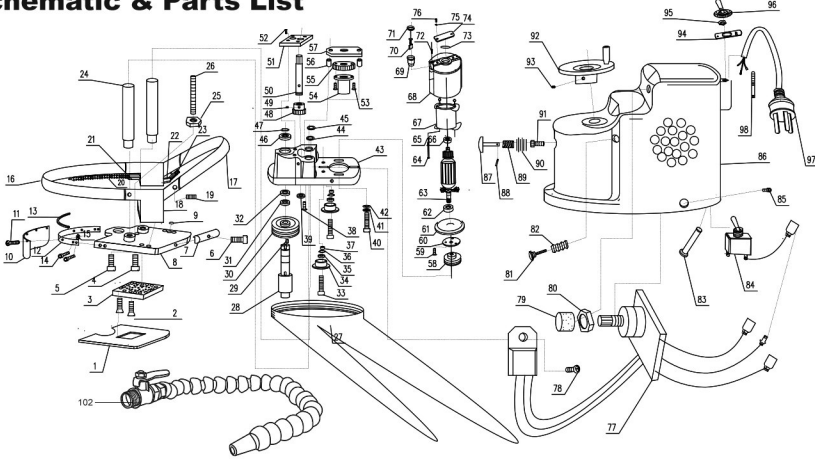
**CALIFORNIA PROPOSITION 65**

Some dust produced by power polishing, sawing, grinding, drilling, and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead, from lead based paints
- Crystalline silica, from bricks and cement and other masonry products
- Arsenic and chromium, from chemically treated lumber

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well ventilated area and work with approved safety equipment, such as those dust masks that are specifically designed to filter out microscopic particles.

## Schematic & Parts List



S.No.	Description	Qty.	S.No.	Description	Qty.
1	Rubber base	1	50	Turn lever	1
2	Screw	8	51	Fixed plate	1
3	Waterproof plate	1	52	Screw	2
4	Screw	4	53	Screw	2
5	Screw	2	54	Nut	1
6	Screw	1	55	Gear	1
7	Tailgate stop	1	56	Spacer sleeve	2
8	Main base plate	1	57	Spacer plate	1
9	Waterproof gasket	1	58	Guide wheel	1
10	Splash guard	1	59	Screw	3
11	Screw	4	60	Gland	1
12	Ring	1	61	Motor side cover	1
13	Article card	1	62	Bearing	1
14	Screw	4	63	Rotor	1
15	Nut	4	64	Screw	2
16	Left holder	1	65	Spring washer	2
17	Right holder	1	66	Bearing	1
18	Fixed base for holder	2	67	Stator	1
19	Screw	4	68	Main case	1
20	Free water change injection	1	69	Brush pot	2
21	Valve	1	70	Carbon brush	2
22	Valve connection	1	71	Brush cover	2
23	Valve	1	72	Screw	2
24	Guide pillar	2	73	Bearing washer	1
25	Nut	1	74	Gland	1
26	Screw	1	75	Spring washer	2
27	Belt	1	76	Screw	2
28	Height Adjustment Shaft	1	77	Variable speed switch	1
29	Belt wheel square key	1	78	Screw	1
30	Idler	1	79	Turn button	1
31	Bearing	1	80	Nut	1
32	Bearing	1	81	Screw	2
33	Screw	2	82	Dust cover	2
34	Belt adjustable wheel	2	83	Cable sleeve	1
35	Bearing	2	84	On/Off Switch	1
36	Ring washer	2	85	Screw	3
37	Block pad	2	86	Fiber glass cover	1
38	Screw	2	87	Self-lock pin	1
39	Bearing	1	88	Spring pin	1
40	Screw	4	89	Spring	1
41	Spring washer	4	90	Dust cover	1
42	Flat washer	4	91	Screw cover	1
43	Aluminum base plate	1	92	Height adjustable knob	1
44	Guide pillar cover	4	93	Screw	1
45	Guide pillar cover	4	94	Switch sign	1
46	Bearing	1	95	Nut	1
47	Clamp spring	1	96	Dust cover	1
48	Gear	1	97	Cable	1
49	Screw	1	98	Gland	1
			102	Water Feed	1