

# Gryphon *Studio*

## Diamond Grinder **Instructions**



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## ***Safety Precautions***

1. Always use eye and body protection when using power tools such as this grinder.
2. Remove any jewelry or loose clothing which could become entangled in the grinding head.
3. Set power switch to off before plugging in the grinder.
4. Use only a properly grounded three prong 110 volt 60 cycle outlet. Extension cords are not recommended.
5. Place grinder in an area where water will not reach electrical outlet and route cord to avoid water dripping down the cord to the outlet.
6. Turn off grinder when not in use.
7. Do not leave hex wrench or other tools on grinder when in use.

## ***Assembly and Preparations***

1. Leave grinder unplugged until ready to use.
2. Place face shield extensions into slots on cooling tower with the open end of the “C” bracket facing forward.
3. Snap face shield into top of extensions.
4. Insert sponge into fingers at front of Cooling Tower. The sponge should hang approximately 1/2” below the Cooling Tower. New sponges may be cut from common kitchen sponges.
5. Place Cooling Tower on Work Surface by aligning pins on tower with square holes in Work Surface and press into place. Sponge should touch grinding head.
6. Insert rubber wings into slots on either side of cooling tower (refer to illustration)
7. Gently pull drain tube from side of case until it extends 3/4” from case (hose should be angled slightly downward). Do not pull further as you may dislodge other end.
8. Place a suitable container under the drain hose to catch drain water, or if you prefer, attach the provided hose extension to the drain hose and drain into a bucket on the floor.
9. Fill Cooling Tower with water. Add grinder coolant if you prefer.
10. Make sure sponge is moist. If not, moisten with additional water.
11. If you are using a small grinding head (such as a grinding pin), you may fold the sponge over so that it reaches the grinding surface of the head. Always make sure that water can reach the head, otherwise damage to the diamond head may result.

## ***Changing Grinding Heads***

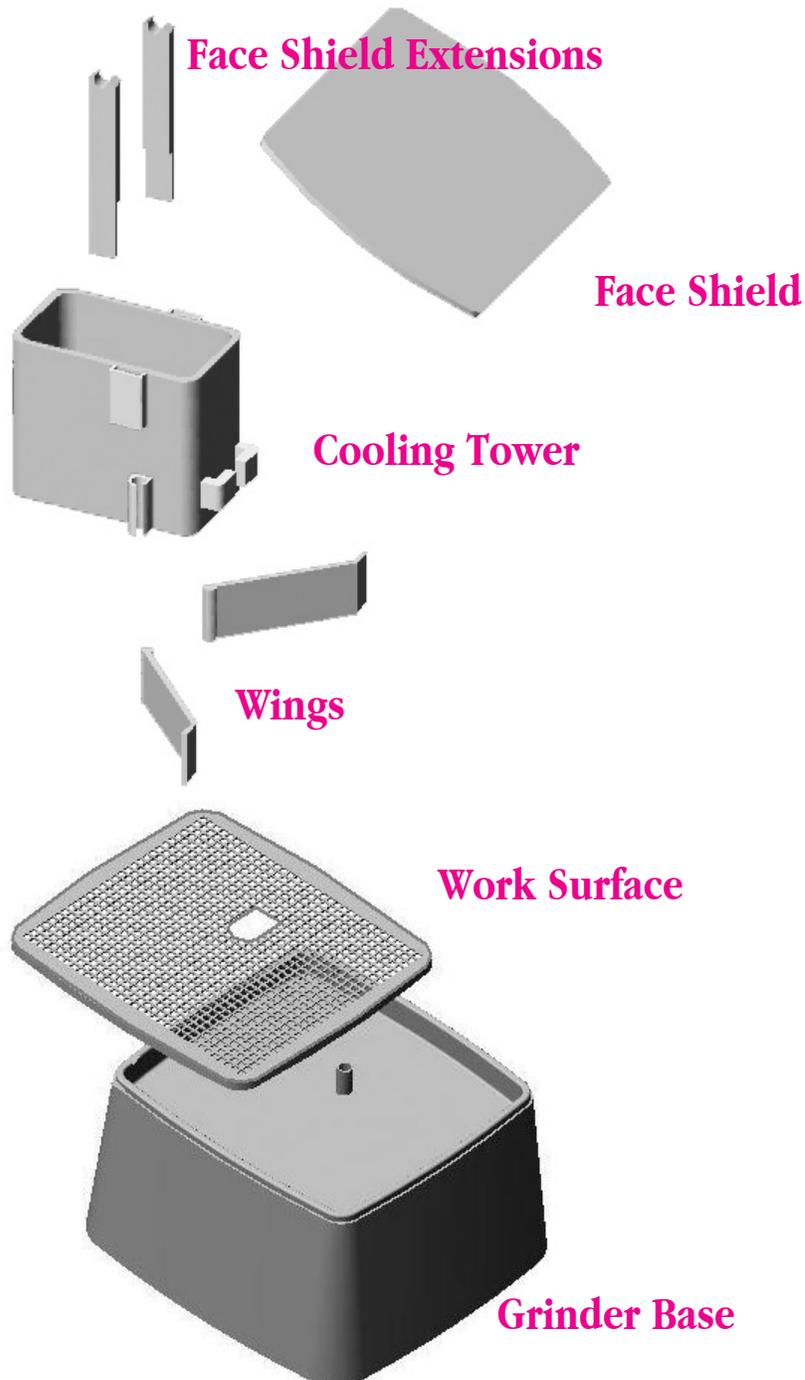
1. Remove Work Surface by pulling straight up. If Work Surface is tight, insert a small screwdriver near one corner and rotate, repeating this process on all remaining corners until work surface is loose.
2. Use the supplied hex wrench to loosen the set screw in the base of the grinding head.
3. Pull the Gryphon grinding head straight up to remove.
4. It is recommended to place a little lubricant, such as petroleum jelly, on the shaft to aid in future grinding head changes.
5. Place new Gryphon grinding head on shaft, and tighten set screw. Put hex wrench in safe place for next time.

## ***Operating Instructions***

1. Place grinder in area with good ventilation and lighting. Make sure that water will drain into appropriate receptacle.
2. Plug grinder into grounded three-prong socket.
3. Insure that coolant tower remains full of water and that sponge is moist. If you prefer grinding without the coolant

tower, you may insert the sponge into the hole in the platform adjacent to the grinding head. Make sure that sponge remains moist.

4. Turn on grinder using switch on right side. If you prefer, you may plug grinder into an approved foot switch rated for 3 amps or more.
5. Press glass, rock or tile to be ground against revolving grinding head with moderate pressure. Shape your material with smooth lateral strokes, removing a small portion of the unwanted material with each pass. Do not apply excessive pressure.
6. If you wish to drill a hole, use a grinding pin. Gently bring glass into contact with the top of the pin at a 45° angle until the hole is started. Rotate the material until it is flat on top of the grinding pin. Make sure that water is allowed to reach the contact point by periodically removing the work and wetting the grinding pin.
7. Add water to coolant tower as required. Never block the drain hole under the worksurface, the drain tube or drain catch pan. Water must not be allowed to fill beneath the worksurface, or it could overflow into motor.
8. When done, turn off grinder. Clean grinder between uses.



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***For best results, use Gryphon Grinding Bits.***

***Gryphon offers a full line of quality grinding bits.***

***Classic cylindrical bits are available in 5/8", 3/4" and 1" diameters.***

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