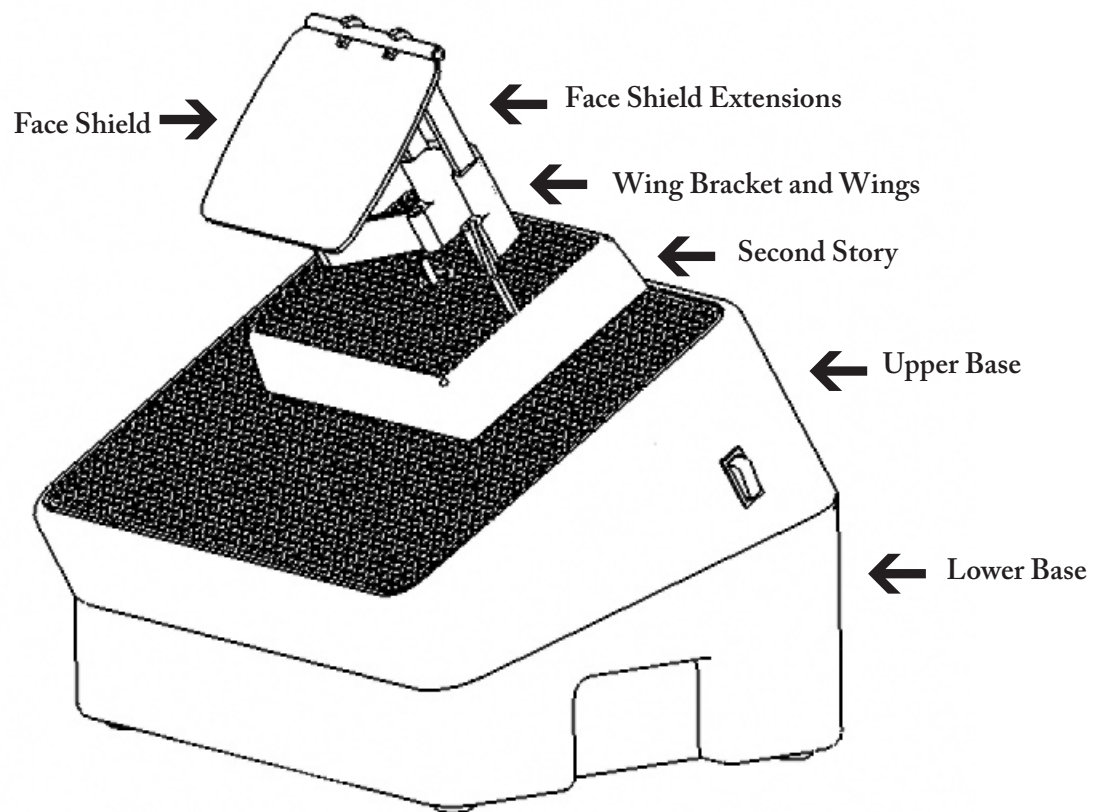


# Gryphon *Twister*

## Convertible Grinder Instructions



## 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.

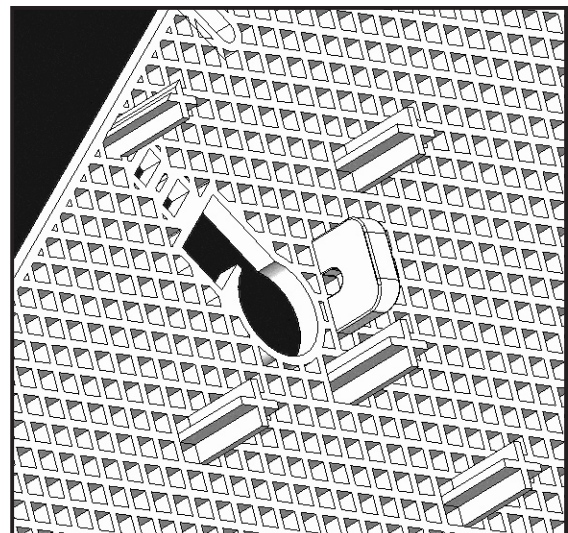
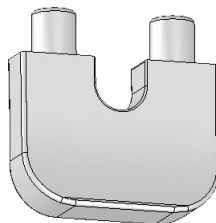
## Grinder Orientation Setup

1. The grinder may be used with the platform surface parallel to the table top or at an approximately 30° angle.
2. If the grinder is to be used in the flat position (parallel to the table top), no further setup is required.
3. To rotate the base to allow the platform to be tilted, first make sure the grinder is unplugged. Turn the grinder on its side to expose the bottom.
4. Locate the thumbscrew in the center of the Lower Base, and remove by turning counter-clockwise.
5. Separate Lower Base from Upper Base. Rotate Lower Base 180°, and snap into place.
6. Replace thumbscrew and tighten until snug (do not overtighten).
7. Reverse this procedure to return grinder to flat orientation.

## Assembly and Preparations for use

1. Leave grinder unplugged until ready to use.
2. Place Face Shield Extensions into slots on the Wing Bracket with the open end of the “C” bracket facing forward.
3. Snap Face Shield into top of Extensions.
4. Insert rubber wings into slots on either side of Wing Bracket.
5. Press assembly with wings and face shield into slots on platform.
6. **Preferred hose location:** Locate hose guide in plastic bag. Raise platform and snap hose guide into bottom of platform so that it will direct water flow directly onto

Hose Guide →



grinding bit. End of hose should be about 1/4" from surface of bit, and water stream should be directed so that it wets the bit near the platform surface. This hose placement will ensure best bit cooling and longest bit life.

7. **Alternate hose location:** If preferred, the water hose may be kept above the platform surface. In this case, push the hose through the hole in the rear of the Wing Bracket. A sponge may be placed between the end of the hose and the bit, if desired. If a sponge is used, be sure to clean and/or replace the sponge frequently. Keep the sponge wet and be sure the sponge touches the grinding bit. New sponges may be cut from common kitchen sponges.
8. Place the supplied filter material in area provided in front of pump inlet in the Upper Base of the grinder. This filter material should be flushed with fresh water regularly to keep it clean. Replacement filter material can be obtained at aquarium supply stores. If the pump should become clogged, it can be cleared by blowing into the hose from the grinding bit end.
9. Fill reservoir in Upper Base of grinder with water. Water level should be as high as possible without overflowing. Add grinder coolant if you prefer.

## Hose Placement for use with Second Story

1. The Second Story is useful when a second grinding bit is attached to the motor shaft above the primary grinding bit. The upper grinding bit is usually smaller in diameter than the primary grinder bit and may be left in place even when the Second Story is not used. If the upper grinding bit is used, then water must be supplied to the bit for cooling.
2. To use the upper bit, remove the Wing Bracket from the main platform, then place the Second Story in position by snapping it onto the grinder platform, making sure that the hole in the Second Story is aligned with the grinding head.
3. Snap the Wing Bracket into position on the Second Story.
4. Route the water hose through the hole in the back of the Wing Bracket. Point the hose towards the grinding bit. A sponge may be used, but cooling of the bit will be better without the sponge.

## Changing Grinding Heads

1. The Gryphon Twister is supplied with 3/4" and 1" Gryphon Slip-On Grinding Bits. To change bits, simply pull the installed bit straight up. If the new bit is the same size, drop it over the white plastic shaft adaptor. If the new bit is a different size, use the appropriate adaptor. Rotate the bit until it drops into place (top of the bit will be level with top of the adaptor). The smaller white plastic adaptor is held in place with a setscrew, and may be adjusted up or down as desired. Also, most brands of standard grinding bits will fit this grinder.
2. It is recommended to place a little lubricant, such as petroleum jelly, on the shaft to aid in future grinding bit changes.

## Operating Instructions

1. Place grinder in area with good ventilation and lighting.
2. Plug grinder into grounded three-prong socket.
3. Insure that water tray remains full of water.
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. Verify that water is flowing through the hose to the grinding bit. If water fails to flow, use the small plastic bottle that is included to suck the water through the pump. Squeeze the bottle, then insert the bottle's nipple into the hose at the grinding bit end, and release. The bottle will suck the water up the hose, and the pump will start to operate.
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 directing water at the bit, or holding a wet sponge against the bit.
7. Add water to water tray as required. If water is not flowing through hose, stop working and determine cause. Grinding without adequate water flow to the bit will drastically shorten the bit life.
8. When done, turn off the grinder. Clean grinder between uses.



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

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