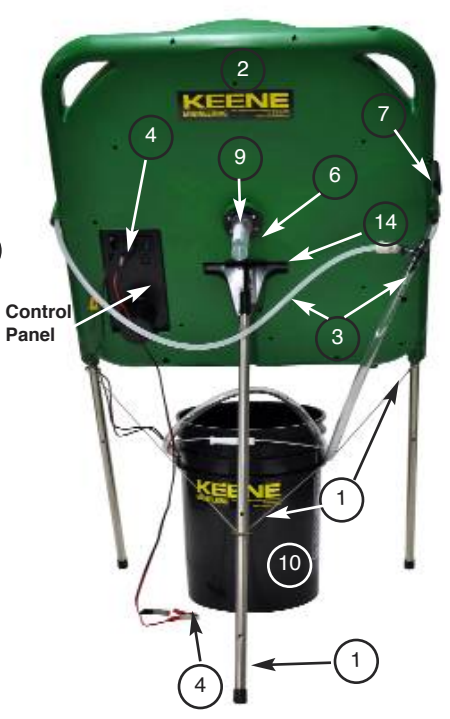


# Spiral Gold Wheel GH25



## Spiral Wheel Components

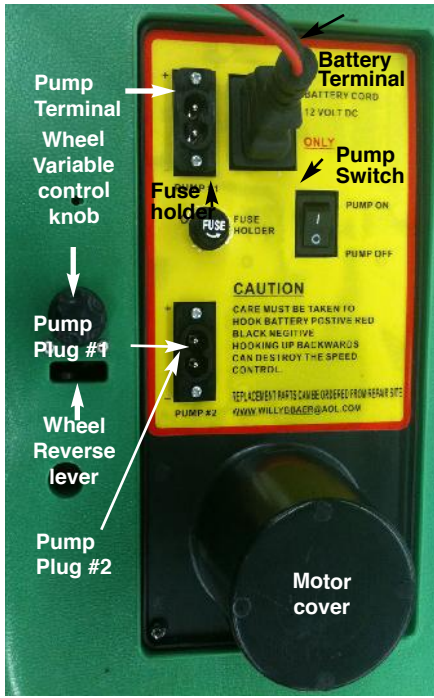
The assembly kit to includes the following items.

1. 1 ea. Stainless steel rear support leg with foot, angle support bracket, 2 each long eye bolts & 2 each wing nuts connected by cable with attached rear leg adjustment plate (5a).
2. Wheel assy. body includes 2 ea stainless steel legs.
3. 2 ea. 1/2 inch ID clear hoses with spray nozzle.
4. 1 ea. 12 volt battery power plug & battery clips.
5. 1 ea. 12 volt water pump & filter bag.
- 5a. Rubber pump adapter.
6. 1 ea. black sand collection cup with clip on attachment to back of unit.
7. 1 ea. Angle Indicator with attaching screw.
8. 1 ea. Spray bar and manifold.
9. 2 ea. Gold collection bottles & 1 screw on cap.
10. 1 ea. 5 gallon bucket (not provided).
11. 1 ea. 12 volt battery (not provided).
12. 1 ea. 12 inch gold pan with 100 mesh sieve.
13. Stainless Steel support leg with black plastic support bracket.



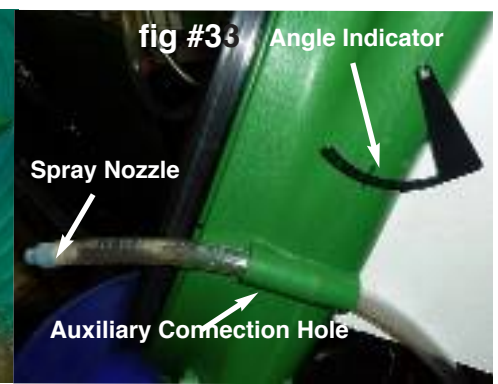
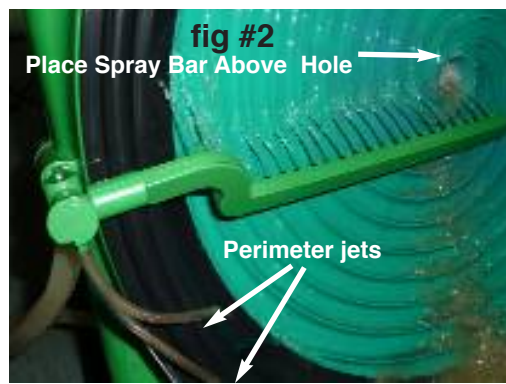
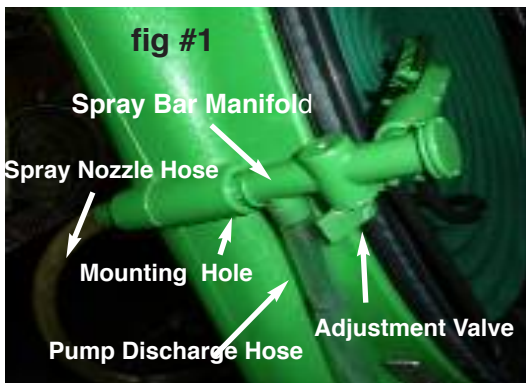
**Note:** Newer models come with a 1100 GPH Pump. Connect rubber pump adapter to pump with provided strap. Secure both hoses to pump adapter with a dab of PVC Glue. Attach one hose to bottom of riser manifold and the other to the pump discharge port on manifold as shown on next page.

### Control Panel



### Complete Kit





## Assembly

1. Lay the unit with spiral in a downward position to extend the 2 legs and align holes in the body with holes in the stainless steel legs.
2. Insert the 3rd support leg assembly into the T slot on back of housing by inserting the black angle support (5a) at a 45 degree angle. Insert the longer left pin first into the hole inside the recessed T slot and gently tap into place. Now align right side and gently tap into position.
3. Place the cable locking plate assembly facing towards the back side of bowl.
4. Insert cable eye bolts through the provided holes in body and legs secure with provided wing nuts.
5. Attach the recovery funnel cup onto the back of the housing with clip on cup under the discharge port or attach gold collection bottle by screwing into center hole (9).
6. Install angle indicator loosely with attaching screw into hole provided on right side of bowl (Fig #3).
7. Set the unit up with rear leg approximately 45 degrees, or 7 or 8 on the angle indicator (fig #3).
8. Pre-assemble the spray bar and manifold onto O Ring connections.
9. Attach the spray bar assembly manifold through the mounting hole located on the left middle portion of the housing(Fig#1). Attach the pump discharge hose to the bottom intake port on the spray bar manifold (Fig #1) and then attach the auxiliary spray nozzle hose to the front port of the spray bar manifold (fig #1). Then maneuver the auxiliary hose around the back through the hole located midway on the right side of the housing (fig #3). Plug the pump battery connector into the proper connection. See diagram on the control panel.
10. Attach perimeter hose jets to spray bar manifold as indicated in the picture (Fig #2). Point one jet towards the inside of the bowl rim and the other jet towards the paddle on the outer edge of bowl.
11. Drill one  $\frac{3}{4}$  inch hole into the your bucket about two inches from the top as shown on item #10. Place the 12 volt pump inside filter bag, then place into the bucket. Feed the electrical wire through the  $\frac{3}{4}$  inch hole and feed the clear pump hose also through the same hole. Place the furnished 100 mesh sieve on the top of the bucket, then place the furnished 12 inch gold pan on top of the sieve to catch the solid waste material. Then place the bucket under the unit as shown in the illustration.
12. Plug the battery connector to the control panel. In the event a fuse is blown (20 amp) it must be replaced. Fuse location is on control panel diagram.
13. Connect the battery clamps to a 12 volt battery.(Red to the positive and black to the negative terminal on battery).
14. First turn the control panel pump swith on when starting and check the flow of water. Then turn the wheel rotation switch to the on position and adjust the speed control for the wheel to slow. Increasing the speed of the wheel increases the amount of material fed into the center discharge port for collection into the tube or the black sand gold cup. **Note: Always turn pump on first and wheel rotation second. When stopping process always turn wheel off first and pump off second.**
15. The water flow is controlled by the adjustment valve on the spray bar manifold Fig #1) . Use a gentle flow of water in an upward direction to make sure that the pressure does not wash the values from the spiral riffles. When adjusting the water flow bar, make sure the last hole on the bar is at the top position of the entry hole. Although the position of the flow bar shows it below the hole.it should be above.

### Operation of the Spiral Gold Wheel

To achieve the best results, you should classify the material as small as possible to approximately 1/8th of an inch. The smaller you classify the better results you will get. Run each classification separately for best results.

When feeding the material into the wheel, place it under the spray bar near the feeder paddles located at the lower left side of the wheel. The material should not be dry. We suggest that you make at least two consecutive runs to eliminate as much of the waste material as possible.

1. After the first run remove the concentrate container and prepare to make a 2nd. run for cleaner processing.
2. During the second run, adjust the wheel to run with a less degree of angle, then slowly increase the rotation of the wheel to follow the flow of the gold to the center entry hole while keeping the black sand approximately one inch under the center entry point. Continue running in this manner to allow the small particles of gold to separate and reach the entry point. The wheel can be relatively noisy during the first operation. This will diminish as the bearings become broken in.

For more information, go to [you tube for demo](http://www.youtube.com/watch?v=djqmelU09_0), [http://www.youtube.com/watch?v=djqmelU09\\_0](http://www.youtube.com/watch?v=djqmelU09_0)