

Instructions for the Operation of the US Prospector G-1 High Banker

The G-1 is a power sluice that not only was developed by eliminating all the problems from the other power sluices out there but also with Joel Farmers secret gold recovery formula. This secret formula was the result of over fifteen years of specifically developing equipment to recover fine and ultra fine gold. From the riffle designs, spacing, width, length and patterns—it has all been formulated for maximum recovery. This unit has riffles and sections designed at every stage for every size (and shape) of gold.

But don't think we're just hyping our own equipment. Professional placer mines use the very same equipment to not only upgrade their trommel concentrates but also use this equipment at the end of their trommel sluices to recover the fine and ultra fine gold as part of their primary recovery system.

The G-1 comes with a few simple parts. 4 legs, 1 cross support, 1 rectangle frame, 1 upper (hopper) box with spray bar attached and one lower box (sluice). We also offer dredge hose adapters and an attachment designed specifically for the "Gold Well" if you would like to add features later.

Setting up:

Assembling the G-1 is simple and is best done by using the pictures on this pamphlet to guide you. The longer legs are inserted in the angled brackets and the shorter legs in the brackets that are upright. The cross support slides down over the longer legs and the tightening bolts are set firm but not excessively. The lower box is dropped into place as shown. The upper box has two anchoring pins that align with two receivers on the main rectangular frame. Lower the hopper pins into these receivers and the upper portion of the hopper will rest on the adjustable cross support.

Important Note: The adjustable cross support should always be behind the back of the upper most riffle. This assures the stability of the unit and keeps the alignment pins from coming up out of the receivers while in operation!

Operation:

Set the G-1 on the most level ground possible and adjust the hopper and sluice level to the eye and each with some down angle.

Do not worry about getting it perfect. Both the hopper and the sluice have design features that give visual feedback while it's running to get the angles exactly right every time.

Hook up your pump hose to the male thread adapter on the water bar. The section of the water bar that has the most holes drilled in it is not glued. It is treated with a non-petroleum lubricant so it can be adjusted. The water coming out should be hitting approximately the first “trap” riffle in the hopper box—or as close as will regulate material out of the upper end smoothly and evenly without any spray coming out of the hopper. You should not be getting sprayed with water when operating this power sluice. Now with the water running, set the lower sluice box until water is falling evenly off the end. Then adjust the upper box until water is even from side to side as it enters the screen. Now raise the angle of the hopper until some water is flowing over the screen and onto the ground. Once there—back the hopper down just enough to get all of the water to fall through the screen. Start shoveling material into the upper end of the hopper. After dropping a shovel full into the hopper it should evenly regulate the material while aggressively blasting it with water. Occasionally a rock will be too large to pass under the water bar and must be removed by hand. The small material will pass into the lower box and the rocks will slide off the screen. If rocks start to build up on the screen try adding a little more angle to the hopper or slide them off occasionally with your shovel. Tapping the shovel on the screen also works well.

Take notice of the lower sluice. Start off with very little drop to the sluice. A sand bar should build up on the up stream side of the middle slick plate that is located half way down the box. Add drop to the lower sluice a little at a time until no sand bar accumulates in that location. You should not add too much drop at once. The sand bar that is present should slowly disappear, taking six or eight seconds to be washed away. This sand bar should not reappear after this adjustment. If it does, add a little more drop to the sluice.

Clean ups are the fastest in the industry.

After shutting down your water pump you can lift the hopper box off of the G-1 without any bolts, clamps, or fasteners. Just grab the water bar and the lower end and lift straight up. Carefully wash out the hopper into a mortar-mixing tub. Carefully lift the lower sluice out of the rectangular frame and wash it out in the tub. Then drop the sluice back into the frame and reset the anchoring pins on the hopper back into the receiver brackets. Now your ready to continue operating.

Thank you for your US Prospector purchase and please go to [wwwUSProspector.com](http://www.USProspector.com) to continue prospecting without the problems.