



2310

Getting Started Guide

STEP 1 - Remove the grinder from the crate

Remove the grinder from the crate by removing the screws in the top of the crate, then remove the screws that hold on the end closest to the back of the grinder. Squeeze the handle adjustment lever and rotate the handle upward. Place a ramp or short block at the back of the crate. Tip the grinder back and roll backward until the wheels make contact with the floor. Be careful not to damage the grinder in this process.



Make adjustments as necessary

If this is the first time you are using the grinder, you may need to make some adjustments. The vacuum port may not fit your vacuum. If it is too small, you will lose suction. The vacuum port can be made larger by wrapping duct tape around it until your vacuum hose fits tightly over it.

If you are using a new dust skirt, you may need to cut out a small section around the vacuum port.



STEP 2 - Verify adequate power

The Iron Horse 2310 grinder has a powerful 10 HP motor which requires 220-240 volts and a 30 amp circuit. A generator that supplies a minimum of 8000 watts should be used. The grinder comes supplied with 75' of 10-3 SOOW flexible copper extension cord. The generator or other source of power should be kept within that distance. If it is unavoidable to use a longer power cord, then the size of the cable must be increased as follows. Each additional 50' of cable requires the next size up in gauge. So, if you need to add 50' of cable to the original 75', then the whole cord should be 8 gauge cable instead of 10, etc. Failure to provide adequate power can cause the grinder to stop and you may see a message of lv (low voltage) on the display.

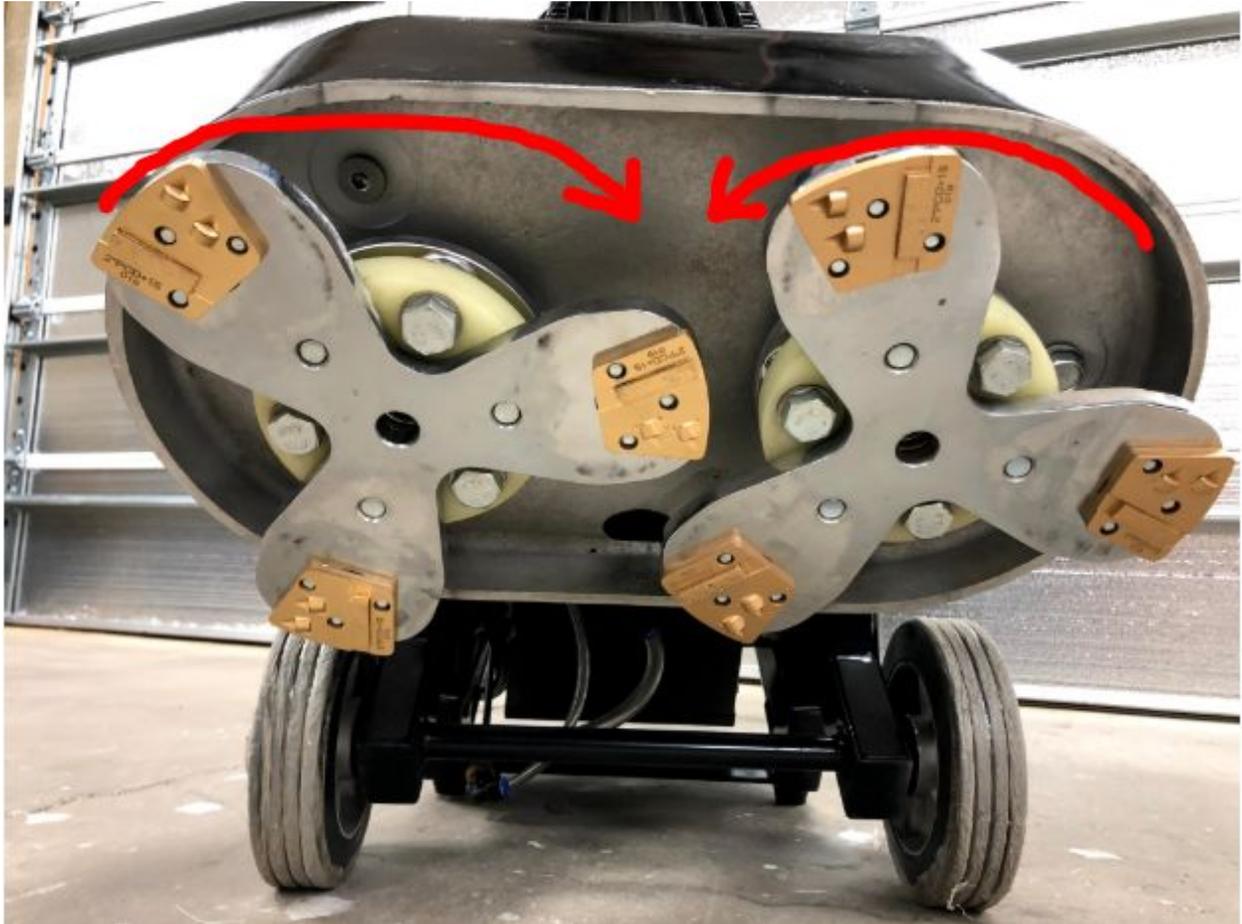
STEP 3 - Install diamond tooling

The Iron Horse 2310 grinder uses 6 diamond tools, 3 for each tooling plate. It is very important that all installed tooling be the same thickness. Never mix new and old tooling as tooling of different thickness will cause the machine to skip and vibrate, creating undue stress on machine components and decreasing the machines ability to remove coatings and grind the floor to the proper profile to accept a new coating.

Install diamond tooling as shown below. Align the protruding bolts used as the guide pins on the tool plate with corresponding holes in the tool piece. The magnet will pull the diamond tooling onto the tooling plate and the bolts(guide pins) will keep it from sliding around. Keep an eye on the diamond segments as they wear down. Replace the tooling before the supporting bolts make contact with the floor. ALWAYS keep the back of the tooling clean as well as the tool plates that hold the tooling.



PCD tooling is directional. It should rotate so that the round PCD diamond segments contact the floor first followed by the rectangular diamond segment. Since the 2310 grinder is counter-rotating, like an egg beater, you must use 3 left-turning and 3 right-turning PCD tool pieces together. Install PCD tooling as shown in the picture below.



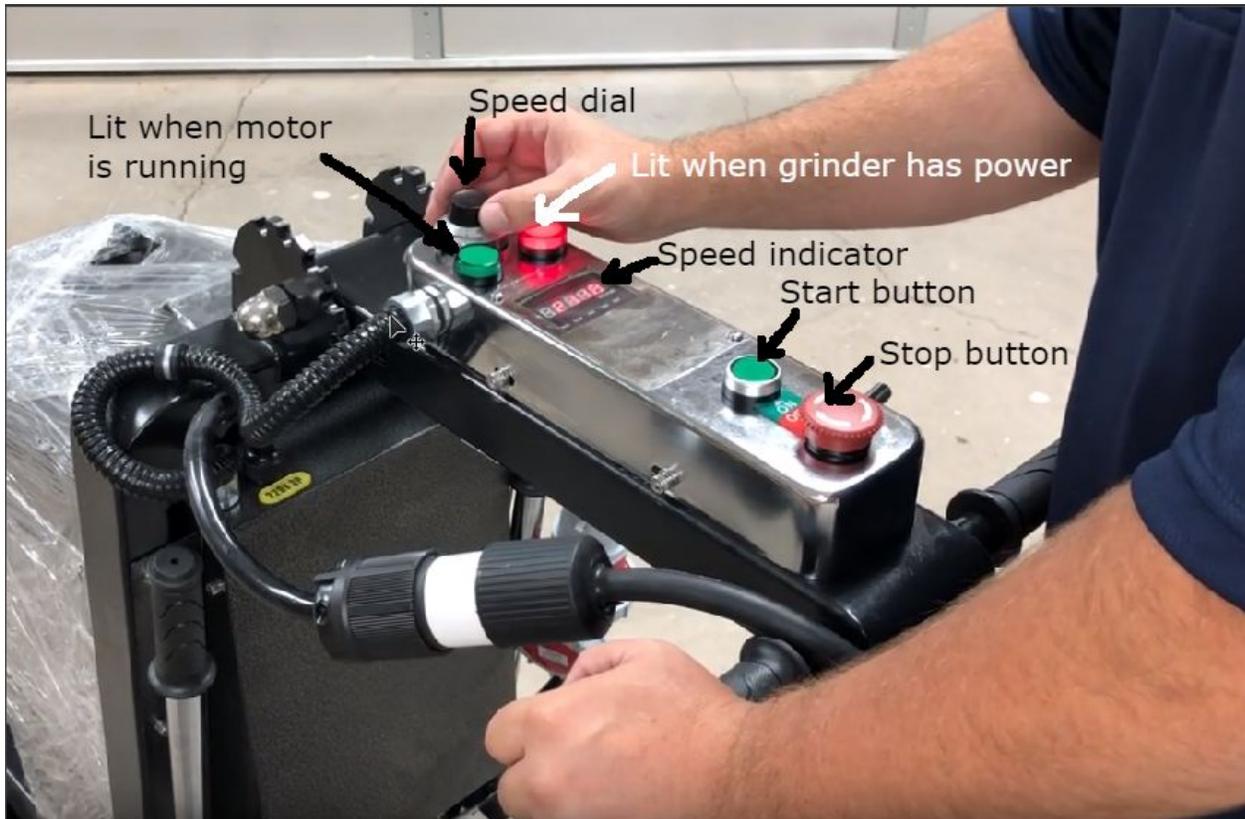
STEP 4 - Plug in the grinder

The grinder comes with a male L14-30 plug that plugs into the female end of the extension cord. The other end of the extension cord plugs into your generator or other power source.



STEP 5 - Check the display

The control panel looks like this when power is supplied but the machine is not turned on.



STEP 6 - Set the speed

The speed of operation varies based on the floor conditions and desired operation, but a good place to start is 20 - 24 Hz. If the machine skips, decrease the speed. If the floor is wavy and the tooling is not contacting the majority of the floor being ground, decrease the speed, this can help as it allows more time for the flexible couplings to adjust and “push” the diamond tooling into the lower spots of the floor.

STEP 7 - Start grinding

Turn the red stop button so that it pops up. Press the green button to start the motor. The grinder will begin spinning the tooling against the floor. You're grinding concrete!

STEP 8 - Stop grinding

When it's time for a cool drink, press the red stop button to stop the motor. The grinder will stop, but power will still be supplied and the display will remain lit. Unplug the grinder to remove power. The display will darken after a few seconds.
