WARNING JITTERBUG

Any piece of equipment can be dangerous if not operated properly. **YOU** are responsible for the safe operation of this equipment. The operator must carefully read and follow any warnings, safety signs and instructions provided with or located on the equipment. Do not remove, defeat, deface or render inoperable any of the safety devices or warnings on this equipment. If any safety devices or warnings have been removed, defeated, defaced, or rendered inoperable, **DO NOT USE THIS EQUIPMENT!!!**

⚠ **WARNING**: This product can expose you to chemicals including Chromium from steel products, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to **www.P65warnings.ca.gov**

⚠**WARNING:** Operating, servicing, and maintaining this equipment can expose you to chemicals including Silica Crystalline (airborne particles of respirable size) from concrete which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize your exposure, avoid breathing dust. For more information go to **www.P65warnings.ca.gov**

Jitterbugs are used to push the coarse aggregate in the concrete below the concrete surface and consolidate the concrete. Tamping is done with the finisher standing in the wet concrete. Tamping should only be done on low slump concrete. It has been noted that if a tamper is used when the slump of normal weight concrete is greater than 3 inches, a tamper segregates the concrete, creating a thick layer of mortar at the surface.
When the concrete dries, this cement-rich surface shrinks more than the underlying lean concrete. Map-cracking or crazing is often the result.

In addition to consolidating low slump concrete, Jitterbugs can also be used to imbed the aggregate in an exposed aggregate finish.

Slump

Slump is the measure of concrete consistency and fluidity. It shows the flow and overall workability of freshly mixed concrete. Simply put, the higher the slump, the wetter the mix. Four-inch (4”) slump is quite common with normal weight concrete and is a good mix for pumping. Slumps that are above average will cause reduced strength, durability, and permeability of the concrete. Admixtures should be used instead of water to achieve higher slumps so that the quality of the concrete is maintained.

If the person receiving this handout will not be the user of the equipment, forward these instructions to the operator. If there is any doubt as to the operation or safety of the equipment, **DO NOT USE!!! CALL A TOOL SHED IMMEDIATELY!!! FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN INJURY OR DEATH**