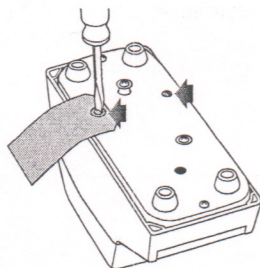


Unpacking

1. Carefully remove unit from packing material.
2. For Model #3110-B, note instructions on the tag at the bottom of the unit. Remove the red packing screws from bottom of the unit. Save the screws; should it ever become necessary to transport your Wig-L-Bug, the screws must be reinstalled to prevent damage in shipping.

This does not apply to Model #3110-3A.



Operation

1. Attach vial adaptor.
2. Plug into grounded outlet. Turn on power switch.
3. Insert vial into adaptor and close safety cover.
4. **Model 3110-3A** Set timer control to desired time by turning timer knob to desired setting. Unit will start and run until timed out. The push button switch on the motor will operate the unit independent of the timer. The unit will reset itself automatically.

Model 3110-B Set timer control by turning timer knob to desired cycle time. The timer control must be turned past 15 seconds to activate correctly. If the desired time is less than 15 seconds, turn the timer control beyond 15 and then back to the appropriate cycle time. If the timer is not turned past the 15 mark while being set, the unit will not count down properly.

The Adjustable Positive Stop feature allows for repeated operation at the same cycle time. To set, loosen the slotted thumb screw, rotate positive stop guide to desired time and tighten thumb screw securely. Operation can be repeated at the pre-determined cycle time by turning the timer control knob to the positive stop guide.

5. Push the trigger button to start the unit. If you wish to run the motor for a short interval, push the button marked MULL. The unit will stop when your finger is removed from the MULL button.
6. Turn off power switch when leaving for the day.

Operating with 1" Long Vials (Plastic or Steel)

The #3113 adapter is used with 1" long vials. The black anodized adapter is mounted on the arms as follows:

The long black side across the top of the two arms and the two short black sides on the outside of the arms facing down. The biggest screw outside the rear arm and the small screw and nut for the front arm. Loosen screw and nut completely. Place the short screw in hold of the front arm clear through the back slotted side of the adapter (adapter flange on the outside of the arm). Put on nut and tighten. Adapter is now loose at the rear.

Place the 1" vial between the arms and place the adapter, long side over top of arms — front short black flange outside the front arm. Holes on top of adapter should slip over arms slightly. Then tighten the front (10-32) socket screw to hold vial steady.

Operating with 2" Long Vials (Plastic)

The #3125 adapter is used with 2" long vials. Place the rounded ends of the adapter body between the cupped arms with the vial clips on the right-hand side, looking at the front of the unit. Install the long machine

screw through the hole in the arms and adapter body and secure with the lock nut provided. The plastic vial can then be snapped into the holder clips and is ready for mixing.

Operating with Agate Vials

The #3120 adapter is used with the agate vial. The long side with the two holes fits on top of the arms with the tips of the arms positioned in the holes. The socket screw should be to the rear of the unit. Insert the 5-40 x 2 1/4" screw through the adapter flange and arms. Put on lock washer and nut and tighten. The agate vial is placed to the right of the arm assembly with the bottom toward the front. Tighten the hex head screw against the vial cap until snug.

Mixing

In general, samples may be mixed for around 15 seconds using a 3/8" diameter ball pestle (#3112) in either the 1" or 2" vial. For very small amounts of samples, one or two 1/8" diameter Plexiglas ball pestles (#3119) will be more suitable. For mixing certain fluffy or light materials, the addition of a drop of alcohol is recommended.

Many brittle substances, such as platinum sponge, may be ground in the plastic vials. For those materials that have a tendency to pack, such as asbestos fibres, reduce the sample size to a minimum and use two balls.

Grinding

Stainless steel and hardened tool steel and agate vials are available for grinding hard materials. Stainless steel is particularly recommended for grinding substances with KBr for infrared analysis. The minimum grinding time should be used in order to avoid hydroxyl contamination. Many substances can be ground with KBr using the plastic vial and ball. If grinding is kept to a minimum, very little, if any, band structure from plastics will be introduced. Band structure sometimes appears after periods of grinding and is probably due to absorption of moisture from the air.

Platinum Sponge Bi and Sb metals may be ground in the plastic vials.

Mineral Oil mulls may be made using plastic or steel vials.

Maintenance

Unplug from power outlet before cleaning. Clean with a soft, damp cloth. Do not use an abrasive cleaner.

Warranty

The Wig-L-Bug is warranted for parts and labor for one year. In addition, the capsule holding arms are warranted against breakage during normal operation for one year from date of purchase.

Precautions

The Wig-L-Bug was designed for 1" vials. The greater weight and torque of the 2" vial and adapter place an added strain on the machine.

Care should be taken that it is not used for extended periods. The motor is thermally-protected and may turn off automatically if over-heated. Once the unit has cooled, it can be restarted.

The unit may run continually if the timer is not turned past the 15 second mark. If the desired time is less than 15 seconds, turn the timer control beyond 15 and then back to the appropriate setting to ensure the unit runs for only the time desired.

In case of emergency, turn off power switch and disconnect unit from power source.