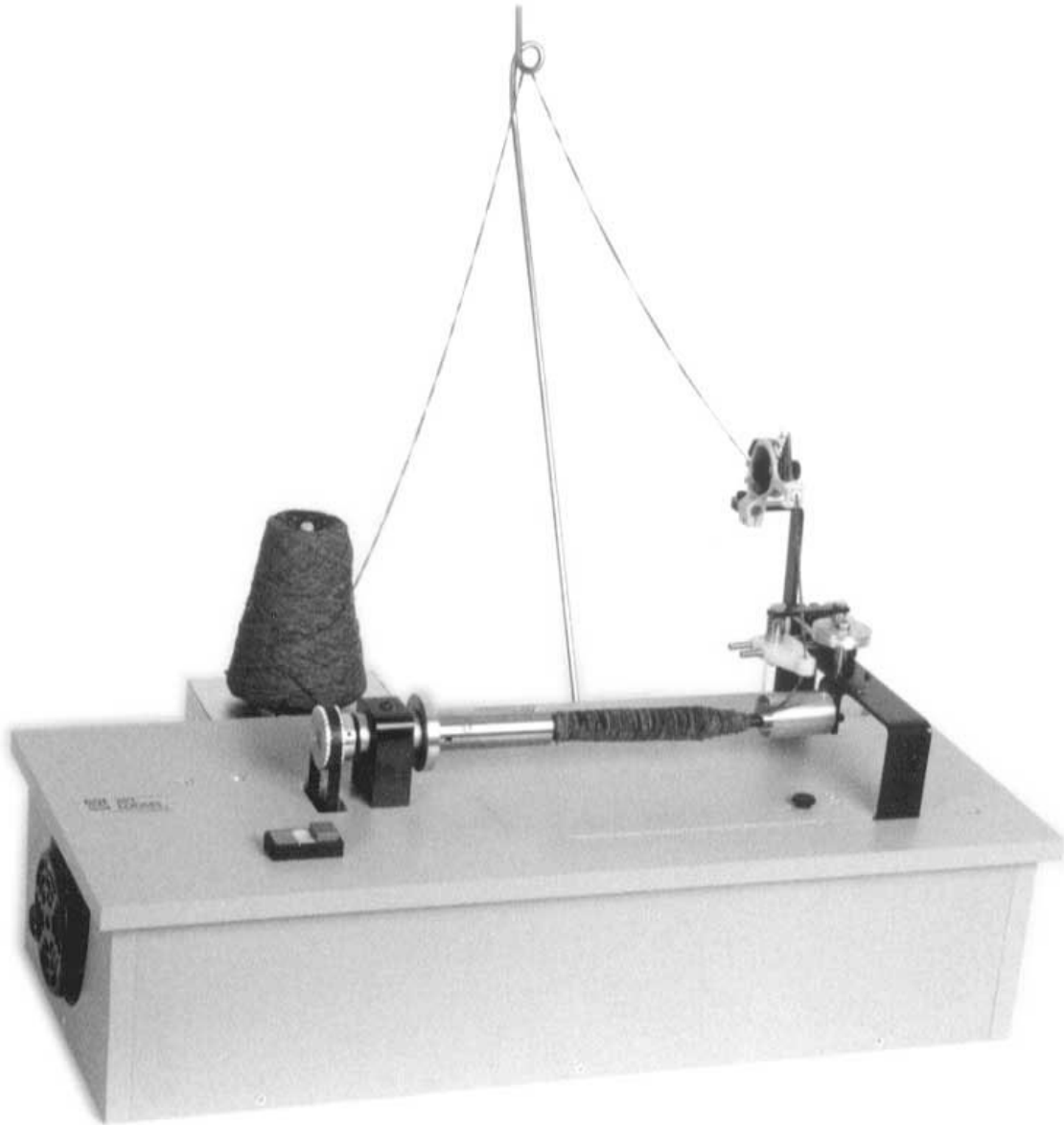


AVL AUTOMATIC BOBBIN WINDER OPERATING INSTRUCTIONS

- 1.) Install the *Upper and Lower Thread Guides* in the Mounting Block on the side of the unit.
- 2.) Rotate the Tensioner(s) into position and tighten the Bracket Bolt (see Figure 1 to determine the correct tensioner orientation).



- 3.) Plug in the Power Cord.
- 4.) Thread a test bobbin according to the Threading Instructions.
- 5.) Wind a test bobbin.
- 6.) Depending on your initial result, you may need to make the following adjustments:

AVL AUTOMATIC BOBBIN WINDER OPERATING INSTRUCTIONS

- If the yarn doesn't wind to the end of the bobbin or winds off the end, adjust the *Auto Stop*.
- If the yarn fouls on the bobbin, adjust the tension at the Tensioner. This is done with the dial on the side of the Tensioner. In some cases, it may be necessary to use two Tensioners in tandem in order to get sufficient tension for a particular yarn.
- Inside the box, on the bottom of the Carriage, is a thumbscrew. You may use this to increase or decrease the drag on the Carriage. Lighter yarns may need more drag. You may need to increase tension for heavier yarns.
- You may need to increase or decrease the amount of fill that you load onto a bobbin (so that it will fit the package area of your shuttles). To do this, use an allen wrench to loosen the two set screws that connect the Funnel Mounting Bracket to the Carriage (located beneath the Carriage). Move the Funnel towards the Collet for a slimmer bobbin and away for a thicker bobbin. Before you re-tighten the Set Screws, check that the Collet and Funnel are concentric.
- If the Collet fails to grip the bobbin end securely or if the bearing holder seems excessively warm with use, you'll need to adjust the *Collet Adjustment Nuts* (you'll need two 1/2" open-end wrenches).

To increase the grip of the Collet, you'll need to loosen the nuts on the collet side of the *Bearing Holder* and tighten the nuts on the opposite handle side. However, before you make this adjustment, please note the following:

- If these nuts are adjusted too tightly against the bearing, it will overheat and wear unnecessarily. Once you've located the nuts so that the Collet offers the proper grip, back them away from the *Bearing Holder* one quarter turn.
- Be sure, before you finish, the both nuts on each side of the holder are firmly locked against one another. These are *Jam Nuts* and are engineered to be self-locking.

You'll find that a certain amount of trial and error is required to find the correct settings for different yarns. Over time you'll develop a sense of what works best. It may help for you to keep a log of settings for yarns that you use often.

- 7.) This unit does not require extensive maintenance. However, we do advise that you occasionally check the bolts for tightness and blow the motor out with compressed air. Canisters of compressed air are available at most photographic supply shops if you are not otherwise equipped.

In addition:

AVL AUTOMATIC BOBBIN WINDER OPERATING INSTRUCTIONS

- Keep the unit generally free of lint and other small debris.
- Periodically lubricate the Slide Rods with a thin coating of light machine oil (*3-in-1*, for example). It's easiest to apply if you first add the oil to a cloth and then *lightly* dress the Rods; too liberal an application may cause a build-up of lint and may, over time, contaminate the Slide Bearings.
- Weekly, add grease to the *Bearing Holder* at the zerk fitting. We recommend that you use a multi-purpose synthetic grease such as AMSOIL.