



Garrett Wade

Technical Memo T35

Re: 60M03.01 60M03.02 60M04.01 60M04.02

To: Customers of the Stirling Engine Models and Kits
From: Garrett Wade Customer Service

Congratulations on choosing the beautiful and amazing Stirling Engine Model! These comments are intended to supplement the assembly instructions included in your model kit, and include definitions and observations we hope prove helpful.

In addition to the "Tools You Will Need" list, the instructions refer to using a diamond-coated file and a prism. We recommend a small, "jewelers-type" file such as the Miniature Diamond Files found in the Garrett Wade catalog (Item # 26B06.01). The scale of these files proved ideal for the task. A prism is a small vise used to secure any cylindrical or oddly shaped part for machining. A wooden jig or even a small vise grip (be careful!) could also be used.

The instructions refer to rouge for polishing the piston and displacer shaft. Rouge is a ferric oxide powder (red) used in polishing glass, metal and gems. It is also known as crocus or jeweler's rouge. It is non-abrasive, and thus recommended. Conundrum, alumina, aluminum oxide or emery are quite abrasive and **not to be used.**

In conclusion, we were able to complete the assembly (including the time required to allow the adhesives and silicone to cure) in less than three hours. And we are decidedly NOT experienced model builders. The only tricky part was fitting the small pins (Parts 10 and 12). We found tweezers to be ideal for this task. A hands-free magnifying glass attached to our worktable was also helpful.

Lastly, keep in mind that the machining of this engine is very precise, and a delicate touch during assembly is preferred. We hope you derive much pride and satisfaction assembling this kit. And enjoy the fascinating, historic Stirling Engine for many years to come.

Garrett Wade Customer Service

For further assistance, call the Garrett Wade Technical Department at 800 221 2942, or email us at mail@garrettwade.com