The base board mounted between the windings may require some adjustment to improve high-voltage isolation. The PCB would need to be flush against the PCB board. Suggested grooves (2mm or wider) are needed in order to improve high-voltage isolation between the primary and the secondary.

Wire: #22AWG, 7/30, 10KV silicon insulated
Core: Permaquad #1725/146.4-36

Annotate by NK (red, blue)