



Mill Motor Kit

- Fits all roller mills with 10mm dia. drive shafts
- Fits R & L Two Roller Mill and Keg King Maltmuncher Two Roller Mill



PACKING LIST

- 1 Motor/Gearbox assembly
- 1 Safety Switch
- 1 Motor Bracket
- 4 5mm Black Hex Nuts
- 4 Washers for Nuts
- 4 Lock Washers for Nuts
- 1 Spider Coupling for 10mm shaft

SUPPLIES & TOOLS NEEDED In addition to plywood and a cart or table to support your finished Mill/Motor assembly, you will need a jig saw, circular saw, drill, and a 2.5mm and 5mm hex key at the minimum. To mount the mill to the base you fabricate, you will also need 2 metric M6-1.00 pitch screws (not included), as well as four 1/4" by 3" machine bolts with nuts to secure the motor to the base you create. You will also need some 1/4" washers to shim the motor (4 or 8 usually) so the shaft is aligned correctly with the grain mill shaft.

You will also need a suitable wiring harness with conduit (see the wiring diagram below) to safely wire your finished motorized mill.

but feel free to use anything to get the mill 5/8" off the base. To get the alignment right, you can use washers to shim your mill base into exact alignment with the mill shaft.

4. Alignment is critical; you will sometimes need to shim the motor mount a bit to make sure your two shafts are at exactly the same level. Sometimes you get lucky - if your mill mount base is exactly 5/8" thick, you are probably already aligned and ready to go.

5. Now with your base and mill mount fabricated, you will need to decide where to permanently mount your mill on the board. Cut a 5" by 2 3/4" slot to mount the mill over in both your mill base and the mounting board. To create a template, get a piece of paper and a pencil and turn the mill over. Punch your pencil through the screw holes in the mill base and use this guide to drill your holes through both your mill base and mounting board. Now mount the mill to your base with your 2 metric M6-1.00 screws.

6. Line up your motor assembly with base, double checking the shaft alignment (when you slide it up the mill, the spider coupler should be well enough aligned that it just slides into the mill shaft). Tighten the spider coupling, and checking alignment once



ALIGNMENT

more to make sure everything is straight; now drill 4 1/4" holes through the base using the motor mount holes as a guide to mount your completed motor assembly to your base board. Tighten and you are now ready to wire your mill.

7. See the wiring diagram below. If you do not have experience with direct wiring, a licensed electrician should be hired to complete this step. Make sure your wiring is properly grounded (a ground wire must be run from the motor body to your house ground) and meets all local codes and the wiring is properly sheathed in conduit as per your local regulations. Mount the safety switch, wire, and you are done!

8. To turn on your completed mill, twist the red safety switch to bring it to the up position. Turning off is easy - just press the red button down.



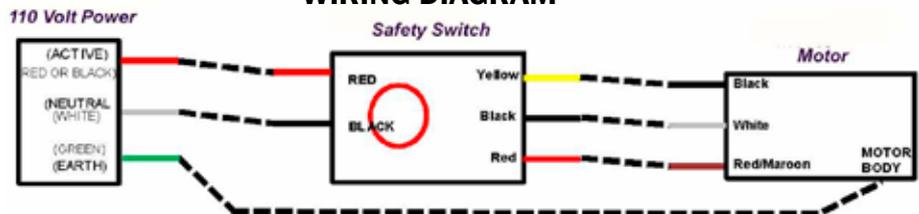
ASSEMBLY INSTRUCTIONS

1. Install the motor mount on the motor/gear box assembly with the four 5mm hex key screws and washers so the wire comes out the top when finished. 2. Remove the yellow plastic cover from the motor gearbox shaft and install the spider coupler with a 2.5mm hex key onto the motor shaft and secure.

3. Now lay out the motor assembly, the mill, and your base (base not included, usually plywood), and devise a mount for the mill that is 5/8" tall. This is typically done with plywood



WIRING DIAGRAM



B59

Final Inspection by: #1