

Subject: Western WE1145 Rotator info

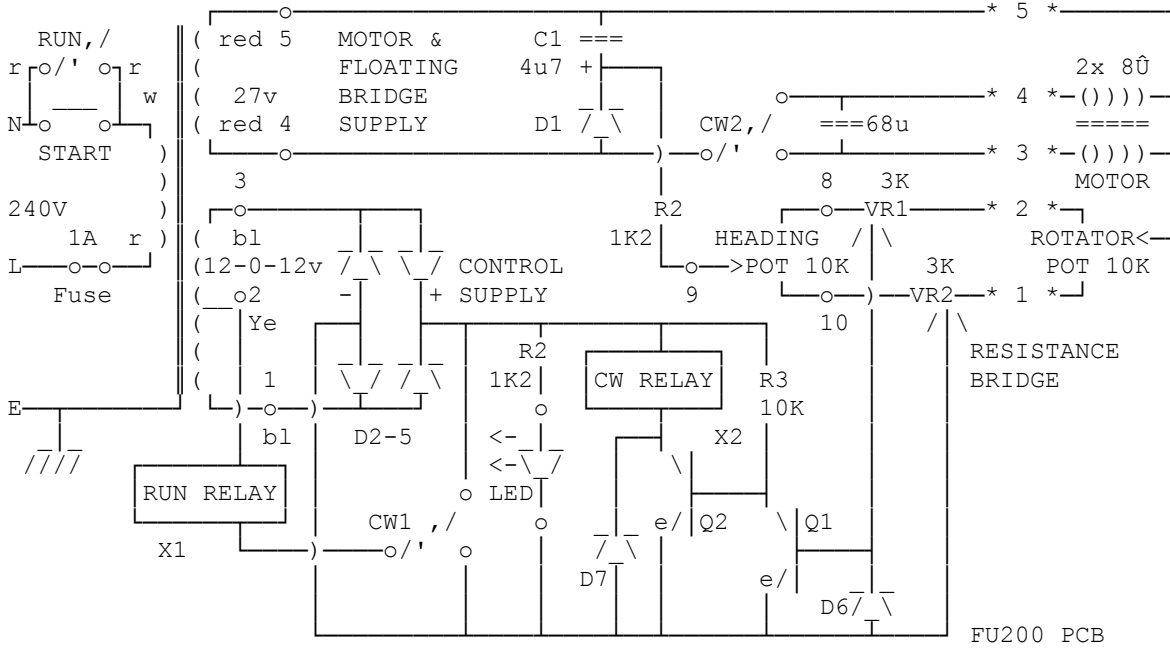
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By G8MNY

(Aug 04)

This is quite a complex circuit design with 2 relays etc..

DIAGRAM



X=No of contacts      o = PCB Connection      \* = External Connection

OPERATION

After rotating the HEADING pot to the desired direction & pressing the START button the LED is lit. Then the CW RELAY either operates or stays released, this determines the AC phase direction selected for the motor. In either case the RUN relay is powered until the balance point of the 2 pot resistance bridge is reached when Q1, Q2, & the CW relay change state. The RUN relay is then fast released with reverse power & the mains supply is disconnected & the LED extinguishes.

Preset pots VR1 & VR2 set the scale length for both the HEADING & ROTATOR pots, & should be set so that the rotator always stops before the mechanical end stop is reached at either end of the HEADING pot.

MODS

As with other rotators the motor is well over run, so if you want more than 2 mins run time add a high wattage low value R (e.g. 8U 10W) in series with the motor common (\*5\*) this will increase motor run time before it overheats or burns out.

Why Don't U send an interesting Bul?

73 de John G8MNY @ GB7CIP