

## Shutter Motor Setup notes for Brewers with original (multiboard) electronics

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Reference item 8.0 from page 11 of Acceptance Test Manual for Brewer #121 - shown below:

### 8.0 Shutter Motor Setup:

Voltage with holding current

across R301: .164 (.18+/- .05V) @ 71 ma

with motor on constant .582 (.9+/- .05v) @ 300 ma

SH Timing Test delay 50-120 increments 2, set to 80

Note the two measurements of holding current and then the current with motor circuit turned on constant. The first picture below shows the location of R301 - test points on SPS board:



In the next picture the shutter motor circuit is turned on constantly by connecting a ground (green wire) to control line at anode of diode D302. To adjust the setting the potentiometer R314 is adjusted while monitoring voltage across R301. Typical results are shown above. The run-stop test is used to test if final settings are optimal.

