

SPC-100

Switch/Pot Calibrator

The Peaktronics SPC-100 Switch/Pot Calibrator is a portable unit that is used to calibrate actuator limit switches and feedback potentiometers. The SPC-100 plugs into a standard 117VAC wall outlet and should be used to calibrate 117VAC actuators that use the Peaktronics AMC-100/101, LRC-101 series, or SVC-100 series positioning controllers.

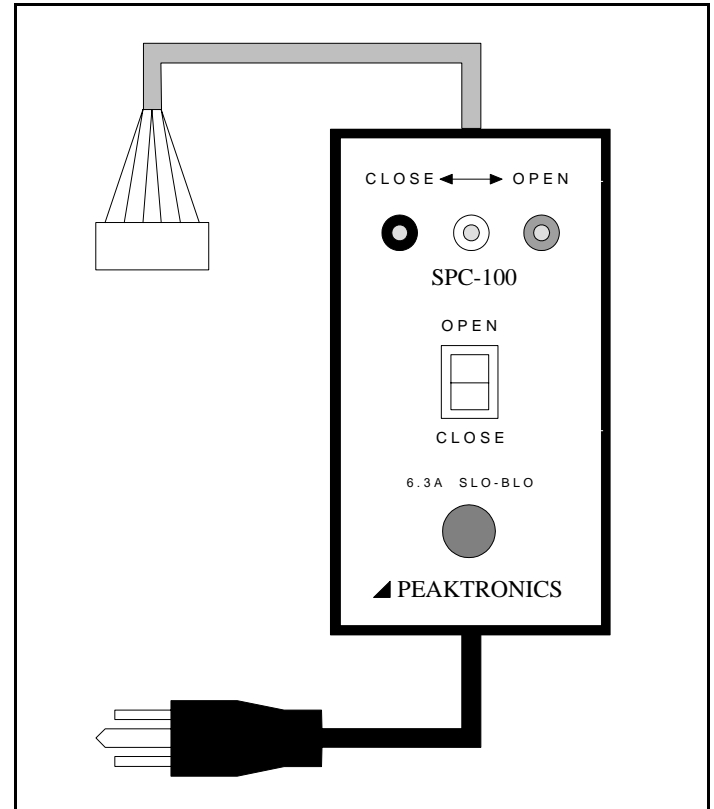
The unit has an OPEN/CLOSE switch that allows operation of the actuator without the use of the positioner. It also has three binding posts that are used to monitor the feedback potentiometer's resistance.

CALIBRATING LIMIT SWITCHES

1. Connect the SPC-100's 6 position socket to the actuator's 6 position plug (observing polarity).
2. Plug the SPC-100 into a 117VAC outlet.
3. Use the OPEN/CLOSE switch to run the actuator to the end of each limit position. Set the limit switch cams to achieve the desired end limits.

CALIBRATING FEEDBACK POT

1. Use the OPEN/CLOSE switch to run the actuator to mid-position. If the actuator does not move in the proper direction while running the actuator, reverse the wires connected to pins 1 and 3 on the actuator's 6 position plug.
2. Connect a multimeter, set to measure "ohms" (using appropriate range for the potentiometer being measured), to the black and red binding posts. Note the reading on the meter.
3. Remove the meter lead connected to the red binding post, and connect it to the white binding post.
4. Loosen the set screws on the output shaft gear or mechanism, then turn the gear or mechanism to obtain a meter reading that is 1/2 of the total resistance that was measured in step 2.
5. Tighten set screws on the output shaft gear or mechanism.



6. Run the actuator, using the OPEN/CLOSE switch. Observe that the resistance reading on the meter increases when the actuator is moved toward the open position. If not, reverse the wires connected to pins 4 and 6 on the actuator's 6 position plug.
7. Unplug the SPC-100 before disconnecting the 6 position connector.