

Lunt Solar PC1

Instructions

Charging

Before starting a session with the PC1 make sure the unit is adequately charged. After a full charge is performed the PC1 should operate for about 10 hours under normal conditions before needing recharged. To charge the controller, simply insert the supplied A/C adaptor into the charging port located on the right side of the unit towards the front.

The PC1 can also operate using the A/C adaptor and will continue to charge the battery during your session. The charging indicator light will illuminate while charging even if the unit is off. The charger circuit will stop when the battery has reached full capacity. The A/C adaptor could also be left in indefinitely if necessary.

Connection

Before turning the unit on you want to make sure all your connections are properly installed. Remove the supplied 5/32od tubing from the packaging and unravel to clear any tangles. Push the first end into the back of the PC1 output connection. Make sure the tubing is well seated in the connection. Then, while adequately supporting the telescope insert the second tube end into the connection located on the end of the pressure cylinder. To remove the tubing later press the outer ring of the connector in while pulling the tube out simultaneously.

Controlling

Now that all your connections are made, press the ON/OFF button. The unit will power up and the display will read out and include your revision number. After that is displayed the PC1 will evacuate the etalon chamber. This is normal and will happen anytime the unit is powered on. This process brings the etalon cavity to ambient pressure and insures a correct pressure reading of the chamber. The display will now read *Scope psi* over *Setpt psi*. Press the PSI(+) button until it reads 2.0. The PC1 will pump up the chamber and stop. If the unit continues pumping then check your connections to make sure they are inserted fully. You can now adjust the psi both (+) and (-) to achieve the correct pressure for your scope. All scopes or etalons have different set points. Once you have achieved your optimum tuning setting you can save it, to reset without waiting. Depress both the PSI(-) and PSI(+) buttons at the same time. "Goto center PSI?" will now be displayed. Then depress and hold both buttons again until "writing center pressure value" is displayed and release. The PC1 will then list center pressure value saved. Now at any time you wish to return or when powering up you can return to this pressure. Simply press both buttons and hit "YES" to re-center. The PC1 usually needs a change of .5 psi to add or release pressure. Please allow such a change and increase or decrease as necessary. In the event the PC1 is turned off pressure will stay in the etalon chamber to the value of the last setting presented on the display. You can continue viewing at this setting until the unit is powered up again or disconnected. Upon powering up the PC1 will evacuate the chamber once again. If necessary, disconnecting the tube can release the pressure in the chamber. Due to the small volume of the chamber this is not dangerous.

Thank You for the purchase and use of the Lunt Solar Systems LSPC1 if you have any questions or concerns please contact Lunt Solar or your local retailer.