

Application Note
Conflict between STL 5-Position and 8-Position Filter Wheels

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Several users have reported that when they attach the 8-position version of the Large Format Filter Wheel to their STL and try to use *CCDSOFT* and *MaximDL* to control the CFW that they can not move to positions 6, 7 and 8 without generating an error. *CCDOps* works fine. This issue comes down to the way *CCDSOFT* and *MaximDL* try to automatically select the CFW model whereas with *CCDOps* you tell it specifically which model you are using, and a communications conflict between the CFW controller boards in the STL and in the CFW. The fix for this is easy and can be done in the field in less than 5 minutes using the following procedure.

1. Power down and remove the STL/CFW combination from the telescope. Drain any residual water from the camera's internal cooling circuit if attached. You can leave the CFW attached to the camera.
2. Turn the STL/CFW over and remove the four socket-head screws that hold the back cover in place.
3. Remove the ribbon cable from P2 in the upper right hand corner of the Digital Board as shown in the Figures 1A, 1B and 1C below. Tuck the cable out of the way to the right of the heat sink.
4. Reattach the rear cover with the four socket-head screws.

At this point your camera is ready for use and will work fine with *CCDSOFT*, *MaximDL* and *CCDOps*.

At some point in the future when you decide to go back to using the internal 5-position CFW simply reattach the ribbon cable to P2 as shown in Figure 1B below, being careful to note the orientation of the Red stripe and to properly seat the connector on both rows of pins.

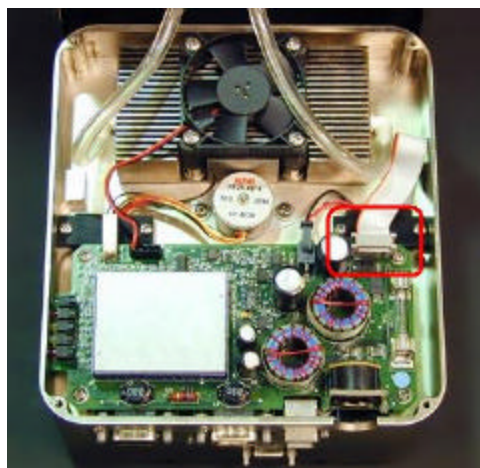


Figure 1A

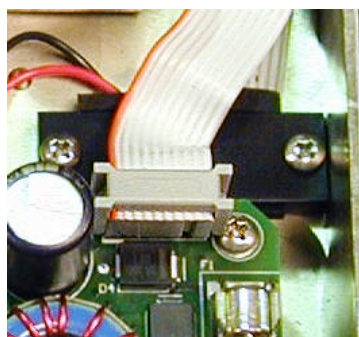


Figure 1B

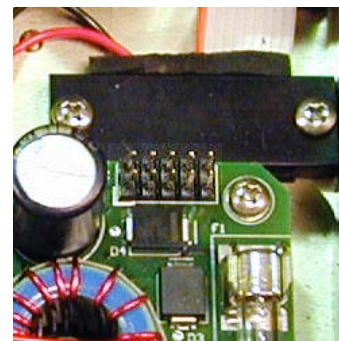


Figure 1C