

## Replacing CEM120 Control Boards

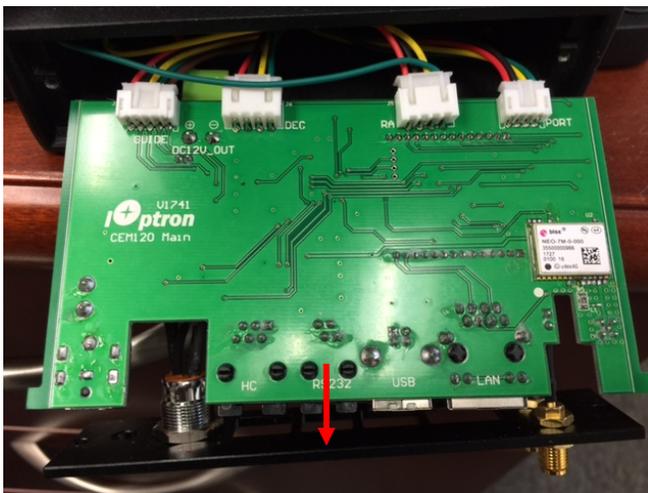
**Tool needed:** a set of metric Allen wrench

### Main Board Replacement:

1. Remove two panel screws using a 2mm Allen wrench.



2. Pull the main board out from the compartment. Mark the cables and disconnect them.



3. Replace the board and front control panel with a new one. Plug in all the cables. Align the board to the slot inside the board compartment. Gently push the board back in. Reinstall the panel screws.

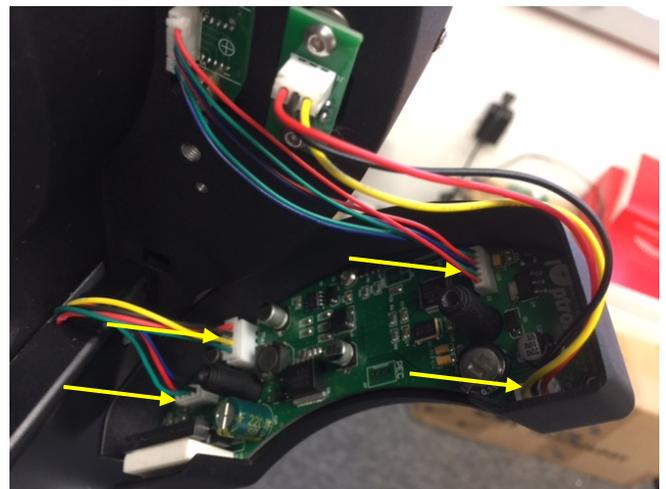


### RA/DEC board Replacement:

1. Remove 2 screws that hold the RA control board cover.



2. Gently pull the cover open. There are several cables, such as cable from main control board, position sensor cable, motor cable, and/or encoder cable, depends on the mount type or RA/DEC board. Carefully mark them and separate them from the board. (shown in the following photo is a RA board in a CEM120EC mount)



3. Remove the control board from the board cover and replace it with a new one.



4. Reconnect the cables and secure the cover onto the mount.
5. Perform a firmware upgrade, if it is not the latest. Do a encoder calibration if it is a EC version.