

## **Philips EM430 TEM**

### **Changing Film Plates**

NOTE: Wear gloves whenever handling plate boxes

1. Put on gloves and get new plate and receiving cassettes from desiccator
2. Clamp new plate box to receiving box and remove dark slide
3. Slowly turn down filament current
4. Turn HT off
5. Press CAM button (light comes on and air is admitted into the plate chamber)
6. Wait approximately 3 minutes, until the camera chamber is at atmospheric pressure, then lift off plate cover and remove film cassettes.
7. Remove dark slides from new cassettes, place in the cassettes just removed from the microscope, and insert new cassettes into microscope.
8. Put back plate cover, checking that there is no lint on the o-ring or sealing surfaces.
9. Press CAM button (light goes out and pumping sequence starts)
10. Press STOCK RESET with pen to reset EXP STOCK to 36
11. HT can be turned on when vacuum status reaches HV2 (this should normally take no more than 15-20 minutes)