

### Adjusting the came plate

The focusing plane of the LABORATOR 900 must be so adjusted that it comes to lie slightly under the baseboard plane. Maximum sharpness on the baseboard is achieved by closing the f-stop by a quarter of a value.

The lens and the negative carrier numbers must correspond to the numbers engraved on the enlarger plate (38). The use of other not previously adjusted lens of the same focal length requires a readjustment of the came plate. For definitive setting of a spare lens with supplied pre-adjusted came plate, proceed as follows:

1. Set the focus variator to zero and unscrew the side panel (14) of the enlarger head as well as the bottom cover panel (15).
2. Loosen the screws (16) and remove the came plate (17).
3. Put in the new pre-adjusted came plate and tighten the screws.
4. Set the enlarger head in its highest position, put in the test negative and check the sharpness.
5. Loosen the socket head screws (39) and move the lever (40) by rotating the socket head screw (41) till the focus is adjusted as described in the first paragraph of these operating instructions. When doing this it will be necessary to readjust the sharp focus several times, as this can be easily unsettled by locking the socket head screws (39).
6. Set the enlarger head to the smallest factor and check the sharp focus.
7. Should the projection in this position not be as well focused as described, then hold the came plate firmly and loosen the screws (16) as well as the nut (18) and rotate the came plate till the projection is well focused. Lock the screws (16) again.
8. Move the enlarger head upwards, check the sharpness and adjust again if necessary by raising and lowering the lens panel. The lens panel is raised or lowered by evenly regulating the screws (42) and the checkbolts (43).

9. Regulate the sharpness in the upper and lower positions as described under point 7 and 8 till the projection appears sharp. Then tighten the nut (18).
10. The pre-set came plate now ensures a sharp projection in all positions of the enlarger head with stopped down lens.

#### An unprocessed came plate not pre-adjusted or used up is adjusted as follows:

11. After mounting the came plate the unit is focused in the highest and lowest positions as described under point 1 to 9 of these instructions.
12. Check the sharpness in all positions along the column by lowering the enlarger head step by step. In this way the point on which the sharp projection lies highest above the baseboard is located.
13. In this position the unit must now be focused. Should this position be in the upper part of the column (till about 55 cm on the column scale), then the focusing can be achieved by raising or lowering the lens panel. In the lower range the came plate must be focused as described under point 7.  
Through this focusing the sharp plane in all other positions of the came plate comes to lie under the baseboard.
14. Mark this point (44) of the came plate with a pen and make sure that the nut (18) is well tightened. Remove the came plate.
15. Polish the came plate carefully and evenly so that the whole unsharp plate portion is brought on the focus of the marked point.

**Nota Bene:** If the lower negative carrier glass is to be replaced the sharpness must be checked and eventually adjusted according to point 8.



