

FULL-FRAME PRINTING

NEGATIVE ADJUSTMENT

- inset the negative into the negative carrier
 - the smallest strip of negs should be 5 frames
 - this will allow one end of the film to stick out so the positioning can be adjusted
- position the film emulsion side down (shiny-side up)
 - the name of the film should be at the bottom of the negs
 - and the frame numbers should be at the top, i.e. rotated 180°
 - all reading upside-down (but not backwards)
- this will project a right-reading right-side up image on the photo paper
- place the top part of the negative carrier on top of the negatives
- carefully align the negative so there is blank clear space symmetrically all around
- this will produce a black line all around the picture
- this is important because it shows the photo has not been cropped



SMALL PRINTS with a LONG LENS

To make a 4 x 6" print on an 8 x 10" sheet of photo paper, adjust these 5 settings as follows:

- Lens insert a **135mm** LENS into the enlarger
 - or turn the turret until the 135mm lens comes into position
- Condenser make sure the **CONDENSER** is on the **TOP SHELF** position
- Bellows set the **BELLOWS** position to **5 cm**
 - This is a non-standard location, because the 135 lens is designed to be used with large-format negatives.
 - place your hand under the lens so it does not fall straight down
 - turn the bellows lever under and behind the lens to the right
 - gently move the Bellows to the correct position
 - BELLOWS HEIGHT = 5 cm**
- Carriage loosen the Carriage Lock at the bottom right of the enlarger
 - crank the **CARRIAGE** to about **34**
 - tighten the Carriage Lock to just finger-tight
 - Do Not over-tighten the Carriage Locks,**
 - they only have nylon teeth!

FULL-FRAME PRINTING, cont'd.

Focus adjust the **FOCUS KNOB** on the right side of the enlarger
 adjust the size of the image with a **PRINTING TARGET**
 i.e. a piece of photo paper with a 4 x 6" rectangle drawn on it
 see the '**PRINTING TARGET**' document for more info
 fine tune the picture size by adjusting *both* the focus and carriage height
 each will alter the size of the image

A 3.33 x 5" print is easily attainable by moving the Carriage down to about 28, with all other settings the same.

A 5 x 7.5" print is also attainable by moving the Carriage up to about 40, with all other settings the same. This is the maximum size print for an 8 x 10" sheet of photo paper. Larger images should be printed on larger paper, allowing for an archival border.
see the '**PRINT SIZES**' document for more guidelines

EASEL SET UP

Position the **EASEL** on the baseboard below the enlarger
Move the blades of the easel out to just smaller than the size of the image
this is small enough to hold doesn't the edges of the paper
but not interfere with the photo or borders

Turn the **TIMER** on in focus mode
Focus the **ENLARGER** until the print is totally sharp
Place the **GRAIN FOCUSER** on top of the easel, in the dead center of the image
look carefully to see if the actual grain is in focus
if not, refocus the enlarger
Make sure the size has not changed during the focusing

If you wish to have a clean outside edge on the black borders
move the blades of the easel in
so they just barely cut the outside edge of the borders

PAPER PROTOCOL

Write you name and date on the back of the print with a permanent marker
write small on the very edge of the photo paper
do NOT use regular ink, as it will run in the chemistry
and get all over everyone else's prints!
Write down the *f*/stop of the lens and the exposure time
Write down any other important information, like burning & dodging

EXPOSE & DEVELOP

Position the photo paper, emulsion side up, into the easel
Make the exposure
Process the print in the photo chemistry as usual . . .