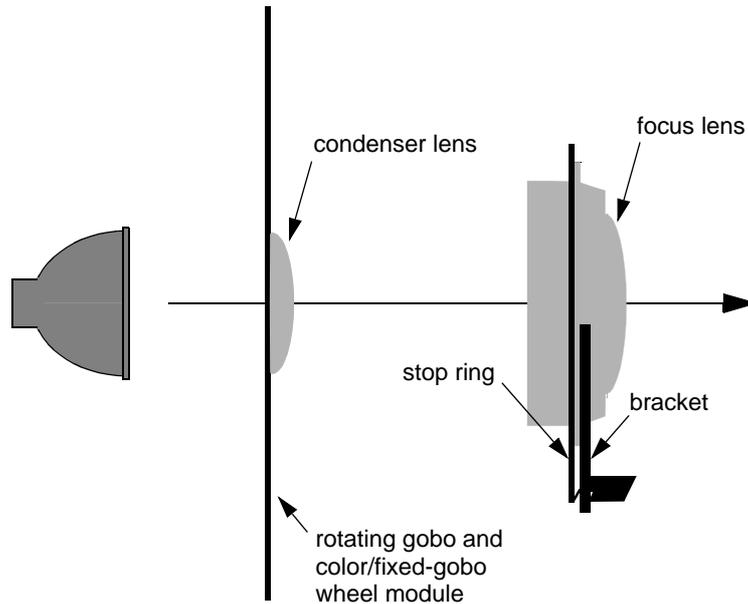


# PAL 1200 NARROW ANGLE LENS KIT

The PAL 1200 Narrow Angle Lens Kit, P/N 850041, changes the focused beam angle to 10.5° - 14°. For optimum CMY color mixing, it is highly recommended that the condenser lens, included, be installed along with the narrow angle focus lens. These instructions describe the installation procedure for both the PAL 1200 and the PAL 1200 Effects version.



**Lens position with respect to lamp - not to scale**

## PROCEDURE

- 1. Disconnect the PAL 1200 from electricity.**
2. Remove the framing/effects module.
3. Push the zoom lens forward, out of the way, unscrew 3 Philips-head screws, and remove the existing focus lens and the glued-on rubber stop from the lens mounting bracket.
4. Position the new focus lens: the lens is mounted on the back of the bracket with the convex side facing away from the lamp. Align the holes in the lens holder with the holes in the mounting bracket.
5. Position the stop ring: the ring is installed behind the lens with the stop tab facing forwards, towards the zoom lens, and with notch fitting over the mounting bracket. (The stop ring keeps the focus lens from hitting the zoom lens.)
6. Insert the 3 x M3 x 12 mm screws from the front. Install the M3 self-locking nuts and tighten.
7. Replace the framing/effects module.
8. Remove the module with the rotating gobo wheel and fixed gobo or color wheel.
9. Place the module flat on the work table with the wheels facing up.
10. Slide the condenser lens over the light path opening with the convex side up (pointing away from the lamp).
11. Place the metal lens holder over the condenser lens and align the 2 screw holes with the screw holes in the module plate.
12. Install the 2 x 3.9 x 9.4 mm self-tapping screws by turning the effect wheels so the open position on each is over the screw, allowing a screwdriver to pass through the wheels. Depending on configuration, it may be necessary to remove a color filter or gobo. If so, note which side faces the lamp so the filter or gobo can be properly reinstalled.
13. Make sure as you tighten the screws that the lens holder sits squarely on the plate and that the lens is securely held by the metal tabs.
14. Replace color filters or gobos exactly as they were before.
15. Replace the module.