

Date: 08/12/2004

**FP12/GP12 Preheat Adjustment**

The resistance characteristic of tungsten filament lamps is such that they exhibit a much lower resistance when cold (room temperature) compared to when they're on (hot). This causes a significantly higher than the normal rated lamp current to flow through the lamp at the instant it is turned on, which can cause the channel circuit breaker to trip if a lamp close to the rating of the channel is rapidly turned on when cold.

Jands FP12 and GP12 dimmers provide a single preheat (or bottom set) adjustment that makes the dimmer deliver a small amount of power to all connected lamps when the channels are at 0%. When correctly set this heats the filament enough to reduce the inrush and minimise nuisance tripping, but does not result in any discernable light output from the lamp.

The FP12 and GP12 Preheat control sets the preheat level for all channels. Lower wattage lamps show a greater light output for a given preheat setting, and preheat must be adjusted with the smallest expected load.

**Warning – Shock Hazard**

**Preheat adjustment requires the dimmer be energised with the covers removed. This must only be carried out by suitably qualified persons in a controlled and safe working environment appropriate to live electrical work.**

1. Turn the dimmer off and disconnect the dimmer from the power socket.
2. Remove the dimmer covers. For WM products, remove the right hand cover; for RM products remove the lid.
3. Plug the loads into the dimmer outlets. Turn all channel circuit breakers on.
4. Locate the Preheat control on the main circuit board. Refer to figure 1.
5. Turn on the control console and set all channels to 0%.
6. Connect the dimmer to the power socket and turn the dimmer on.
7. Using an insulated screwdriver, make a small change to the preheat control while watching the load. Adjust the preheat control so that the loads are on the verge of glowing.
8. Turn the dimmer off.
9. Replace all covers.

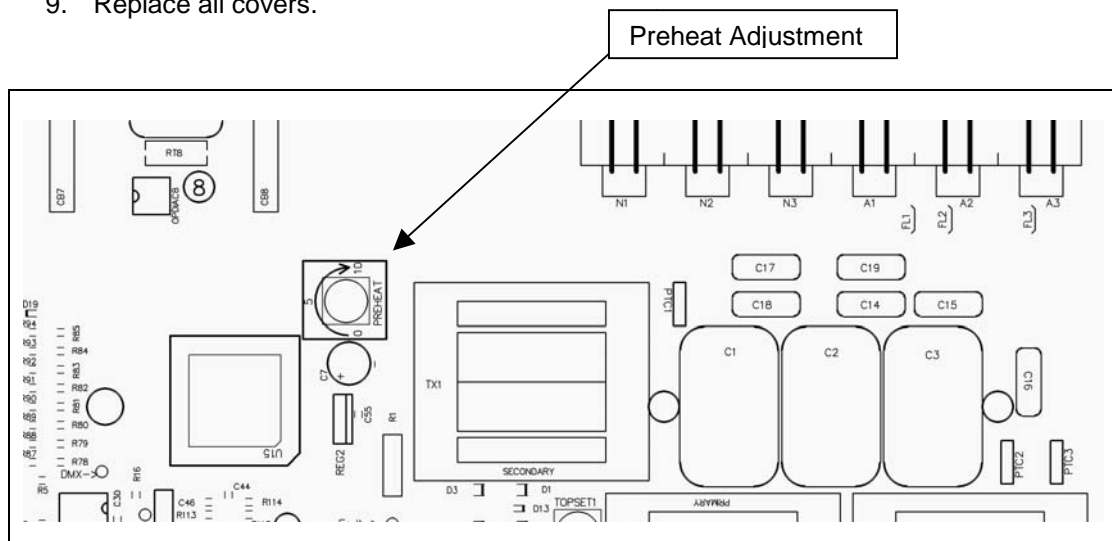


Figure 1: Preheat control location.