



Date: 14/4/1999

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## HP Dimmer Installation procedure for V2.2

The following procedure should be followed when fitting HP dimmer software version 2.2 to ensure all functions operate correctly.

### Install the software

#### If the dimmer is a TR or SC model (with download capability):

1. Copy the files "download.exe" and the dimmer software eg "hp2\_2" to a directory on the computer's hard disk.
2. Restart your computer in MS-DOS mode.
3. Change to the directory that the files were copied in step 1.
4. Switch off the dimmer power.
5. Connect the download cable from the PC COM1 connector to the dimmer DMX input connector.
6. Press and hold the "Enter" button on the dimmer keypad while turning power on.
7. Later versions of dimmer software have a confirm stage to prevent unintended downloads. If the dimmer displays "CFRM", press the MODE button on the dimmer keypad. Otherwise proceed to step 8.
8. On the PC, start the download process by typing "download hp2\_2<enter>". The dimmer keypad LEDs will chase while the download proceeds – this takes approximately 40 seconds. When the download is complete the dimmer display blanks while the data is programmed into the FLASH memory, and the dimmer restarts.
9. Switch off the power and proceed to step 10.

#### If the dimmer is an earlier model HP (without download capability):

1. Switch off the power and disconnect the mains supply.
2. Remove the lid.
3. Disconnect and remove the flat cable from CPU card to the main drive card.
4. Locate and remove EPROM IC10, using a small flat bladed screwdriver.
5. Carefully insert the replacement EPROM; note that correct orientation has the notch upward.
6. Inspect the EPROM to make sure all pins are correctly inserted in their socket holes.
7. Set DIP switch #1 ON.
8. Reinstall flat cable removed in step #3.
9. Replace the lid.

### **Deep Clear the Dimmer**

10. Press and hold the MODE and DMX BANK buttons and turn power on.
11. Using the wheel select 240V and press the ENTER button.
12. Using the wheel select the number of dimmer channels and press the ENTER button.
13. Press and hold the NORMAL button. After a second the display should show the software version. In particular it should read "HP V2.2..." if the DIP switch has been changed as required in a standard HP Dimmer. If it reads "TRSC V2.2..." then DIP switch #1 has not been set as described in step #7. The display should show "TRSC V2.2..." for a TR or SC model dimmer.

### **Calibrate the Dimmer**

14. Press the dimmer MODE button.
15. Using the wheel select VCOM and press the ENTER button.
16. Using the wheel select LINE and press the ENTER button.
17. Adjust the displayed value to match the current mains input voltage as measured using a voltmeter, and press the ENTER button.

### **Test for correct operation**

18. Press TEST.
19. Press the SELECT button for each channel.
20. Plug a load into each output and check each channel dims correctly when the wheel is rotated.

Refer to Technote TBJLT050 for details of the enhancements provided by V2.2.