

# LUPINE®

LIGHTING SYSTEMS



## WILMA UPGRADE

**Wilma Upgrade Kit Art. No. 666.  
Red LED Board 750 Lumens, Lens array 15°,  
Allen key, Upgrade manual**

To upgrade your Wilma, choose a clean and bright place. Additional to the upgrade kit and the Allen key, you will need some small pliers. Without pliers you will be unable to take off the old LED board.

Attention ! : Only touch the new lens array at the outer rim. Make sure not to touch the LED's, any dirt and fingerprints may affect the performance.

### **Step 1:**

**Make sure the light and battery are unplugged.** Open the Wilma screw cap by turning the cap anticlockwise.



## **Step 2:**

Loose all 4 Allen screws with the included Allen key and carefully pull them out of the housing. Afterwards you can take off the old lens. Make sure you do not interchange the old and new lens by mistake. They pretty much look the same but only the new lens will work with the new emitters.



## **Step 3:**

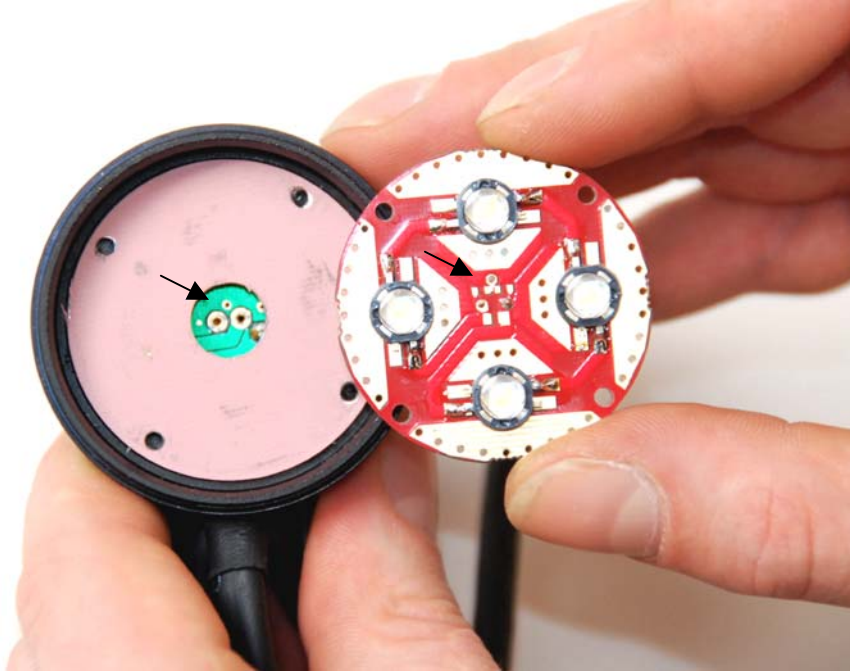
In order to remove the old LED board, you now need the small pliers. Grab the LED board by the 2 small pins in the center of the board and pull it out the housing. Underneath the green board you will find a pink heatfilm. Attention! : In some cases the mainboard may pop out of the housing while removing the LED board. If this is the case, push it back into the housing, make sure the 4 threads are in the right position. To find the exact position, rotate the mainboard, best use the allen key. Also make sure the 4 holes inside the pink heatfilm match the threads position. This adjustment should be done very carefully and as accurate as possible to make sure the 4 screws can be screwed back into the housing.



#### **Step 4:**

**Important!** The new red LED board must be inserted in the right position.

The false position will not harm your light but the LED's will refuse to light. To find the correct position have a look at the small hole's; both the 2 pins and the 2 press-in contacts. The picture below shows the right position.



#### **Step 5:**

**Attention!** : Do not touch the surface of the LED's.

To insert the new red board carefully slide in the 2 pins into the contacts. Do not force them in, too much force will bend the pins. In the right position, the board will enter easily.

If you bend your pins, use the pliers to adjust them again but be careful not to break them apart.



Once the red board is in position, do a short performance checkup. **Attention!** : **Do not look directly into the LED's!** Connect the battery to your light and switch the light on for a maximum of 5 seconds! Do not test the light any longer than this. This will harm the LED's because there is not enough contact to the heat sink. Did the LED's light on? Good job! Your LED's did not turn on? Check again the position of the board.

### **Step 6:**

Make sure the 4 holes of the lamp body, main board, pink heatfilm and LED board are in one row. Otherwise it is impossible to place the lens array on the board and screw in the 4 screws.

Insert the 4 Allen screws into the holes. With little joggling and gentle movement, the screws will find their way back into the housing.

Even without tighten them, the screws must sit as deep as you can see on the pictures below. You are ready to tighten the screws after all 4 screws are in the right position.

**Attention!** Tighten them crosswise like changing a wheel. As long you are using the Allen key, like shown on the picture below, there is little risk of overloading the threads but still be careful.



### **Step 7:**

After adding the new lens array, have a closer look at your light. Now you can blow out possible dust or other dirt.

Afterwards you can close the housing again. Make sure not to destroy the thread by using too much force. This is a very fine thread, which accepts no impatience. Close the housing until there is no more gap between housing and cap.

**Need help ?**

**Lupine Lighting Systems**  
**Altdorfer Str. 17**  
**D-90559 Burgthann**  
**Fon: 0049 91 83 902310**  
**Fax: 0049 91 83 902315**  
**e-mail: [info@lupine.de](mailto:info@lupine.de)**  
**net: [www.lupine.de](http://www.lupine.de)**