

## **Products + installation recommendation**

I have been working in Slotcar Hobby Sport for several decades and I think I have gained some experience. A few years ago, lighting for the slot cars was also offered. It offered kits as well as ready-to-install sets. Some people resorted to ready-to-install sets because they had no experience with electrics. Dancing or flashing lights, exhaust flames and brake lights were offered. A boom arose. I was bothered to browse in a large selection and not to be able to buy the "complete" set!

Thus, with a renowned electronic company, I started to develop a lighting kit that satisfies all my requirements without having to improve it through other acquisitions.

In conversations with other well-known racers and model builders, I then developed a module design of my sets for beginners and professionals.

So I built a set with power supply and gold cap on the function board and once separately which the latter is intended for professionals and weight fetishists, in the body.

The simplest thing is "Only" a permanent lighting that can perform more auxiliary lighting through free connections such as daylight, 7 segment displays or start number lighting.

### **Slotlight 2 „Racing Light“**



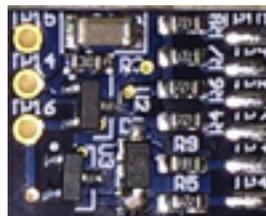
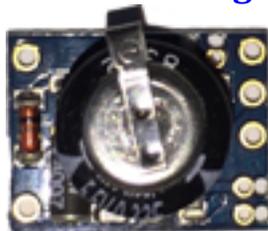
This power supply still has 2 outputs to operate underfloor light and is glued to the chassis.



The Resistance board has 6 outputs, with 3 covered with front light, tail light and interior light and is glued weight 0.47gr for weight reasons in the body.

An extension is then a permanent lighting with integrated or separate brake light! Front lights have single connections. An exit is free to be occupied eg. For indoor light.

### **Slotlight 5 „Racing Light“**



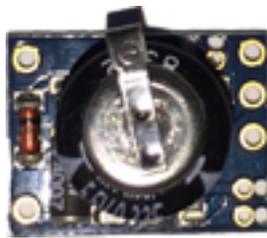
Now we come to the High Light of our development which has only one bank in the Slotcar market. Our product is of equal quality but offers more in lighting (standard) as well as functions. I was bothered by the brake light, for example! There was only the integrated function I broke but, on some models, a separate brake light to realistically illuminate the slot car. That was implemented. Then, as already mentioned, the module construction was applied here, i.e. a super-lightweight function board 0.9gr that could be separated from the power supply.

Now added that you only get limited advice in the Slotcar shops about saleable ready-to-use prefabrications but not what I need for a particular vehicle, I offer the customers a service to advise on all possibilities, selection of the SMDs and assembly of the board. Whatever else no one else does there is often the time or the experience missing.

### **Slotlight 1 „Premium „**



### **Slotlight 4 „Racing Light „**



Here, too, underfloor lighting can be connected!



Both sets offer the same connectivity possibilities:

Separate front light (fog light, continuous light, dancing and flashing light)

Separate brake light

Integrated brake light

Interior light

Exhaust flames

It differs only with power supply or separate voltage supply!

Both are equipped to install!

Now we come to the most important part of the "installation aid"

For years, engines were driven without any problems with "Fox10" which did not pose a danger to lighting sets. The sets were thus connected to the engine because the back voltage, when braking, was very low. Then came regulations that were used in the race selected engines and thus the soldering on the engines was prohibited. The lighting set on the grinder was then always soldered.

With **Scaleauto** engines, the back voltage is particularly high and can destroy the lighting set in the entrance area and should **"always"** be connected to the grinder!



Then hot glue, for the power supply on the chassis, should also be dispensed with and the sets should be glued with 3M about 2mm double adhesive tape. By further putting the board on, the soldering points can get contact with the metal chassis or the gold cap (bottom is plus)

Presses wrong and gets contact with the voltage controller and a short circuit is created that destroys the set! See picture.



Furthermore, I would like to point out that the modern GFK/Carbon bodies are power-conducting and can cause a short circuit on the SMDs if the installation sites are not properly insulated by varnish or glue. The same applies to the included (service) exhaust sleeve. So isolate these with glue for the SMDs from the inside.



Here the pages of the SMD are not protected from short circuit!  
If you heed all the hints and work clean you will enjoy lighting for a long time, like many of our customers.

**Built-in aid**

**! Back of the boards!**  
**They are soldering tips etc by contacting the pads**  
**Powering connection points that are not isolated!**

**Control keel/grinder**  
The grinders must not be in contact, in the movement, To the body!

**Ensure**  
Failure to comply  
A short  
Our sets are only against glazing and overvoltage  
Protected!  
Solete, by customers, goes Out the guarantee!

**SMD LEDs**  
These are at the soldering points  
And not on the side  
Isolated!

**Connection PCB**  
NUR connect to the grinder! 😊

**NOT on the engine**  
Connect!  
Can destroy the IC! 😞

**Important for GFK or carbon bodies or parts!**  
**Not with hot glue! But with about 2mm 3M adhesive pads!**