

DMEV-A-014 lighting strip

This strip allows you to equip Mistral 69 A4Dtux generator van LS Models cars with interior lighting.

Compatibility

Mistral 69 Vru generator van LS Models

Special recommendations

This strip was designed from a Mistral 69 A4Dtux generator van LSModels, we decline all responsibility in the event of problems during installation in a car of another brand.

Presentation

The DMEV strips are developed by our company.

The PCB varnish is white for better diffusion of light.

We have developed a regulation circuit that allows low voltage operation (5 Volts) and the suppression of LED flashing. To suppress flashing, you will need to install a capacitor in the location provided on the strip.

We recommend installing a 5.5 Volt 0.1 μ F polarized super capacitor for best performance.

You can install a 6.3 volt capacitor whose capacity will depend on the space but the performance will be much lower than the super capacitor.

Installing a capacitor whose voltage is higher than 6.3 Volts will make your installation even less efficient.

Different stages of assembly

Read this manual in full before installing your lighting strip. You must be aware of the different stages for assembling the strip. Do not hesitate to reread it if you have any doubts during assembly.

Dismantling the car

Remove the roof of your Mistral 69 A4Dtux generator van LSModels car to access the passenger areas. The manufacturer's instructions indicate the method. Take care with the lugs that allow the assembly of the roof.

Preparing the car

For better hold, we recommend that you stick the strip using double-sided adhesive at each end.



Strip connections

To power the strip, several solutions are possible and will depend on your choices.

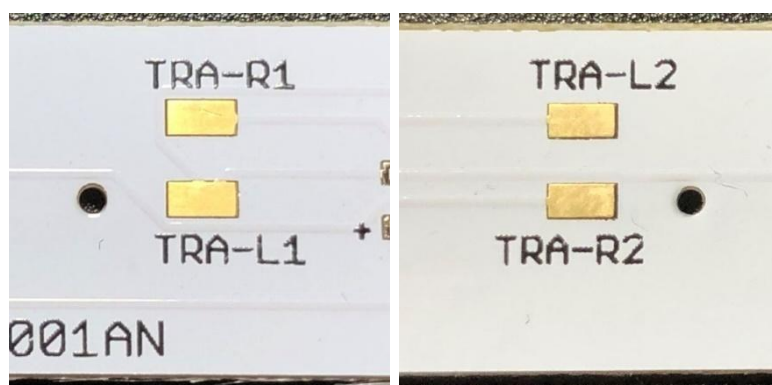
Power outlets can be installed on the bogies. Check the polarity of your axles so that there is no short circuit.

The MP903 strips are perfectly suited to this type of car.

You will need to connect the power wires to a TRA-R pad and a TRA-L pad on the opposite side.

For a train line, you can use conductive couplings or install connectors at each end of the cars.

You will need to connect the train line power wires to the TRA-R and TRA-L pads as shown in the diagram below.



Holding capacitor

Optionally, you can install a capacitor to prevent flickering.

The capacitor voltage must be at least 5 Volts.

The capacitor fits in the toilet. There is not much space, which limits the choice of capacitors.

The 5.5V 0.1F super capacitor, DistriModel reference DMEV-O-001, fits perfectly in the toilet and has a large energy reserve.

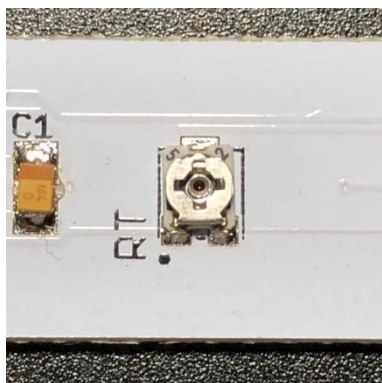
C+ corresponds to the positive terminal "+" of the capacitor.



Settings

You can adjust the light intensity of the LEDs using the RT potentiometer.

Turn the potentiometer gently using a flat precision screwdriver or a potentiometer screwdriver to the right to increase or to the left to decrease the light intensity of the LEDs.



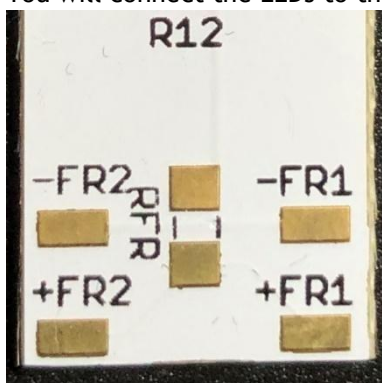
End of convoy lights

We have provided pads to connect the LEDs of the end of convoy lights. You will find the references FE603-ROU-10 or FT603-ROU-10 on the Distrimodel website.

A location for a resistor (RFR) has been provided so that you can adjust the light intensity of the LEDs.

The size of the resistor is a CMS 1206.

You will connect the LEDs to the pads +FR for the positive and -FR for the negative.



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