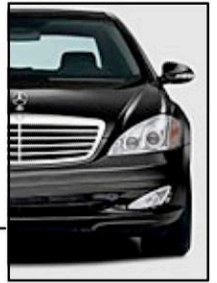**CARMODULE.DE**

The new dimension of cartuning

Installation

Windowfolding-Modul

1. Introduction

Dear customer,

thank you for buying our windowfolding module

Many cars offer electric folding mirrors but in most cases this can only be startet with a switch which has to be pressed manually.
Wouldn't it be nice if your car would fold and unfold the mirrors automatically?

You can also use our module if you upgraded your car with folding mirrors and now need a controller.

What does the module offer?

♦ Easy installation if you already have electric folding mirrors (one module can control two mirrors)
♦ You can controll the module with a manual switch or with your remote.
♦ Comfortcontrol: If you press the close button on your remote twice and ACC is off your mirrors will be foldet.
♦ Autocontrol: If you enable ACC the mirrors will be unfoldet
♦ Memory: The module has a permanent memory, if you disconnect the battery the module will save the last position of the mirrors to avoid problems.

2. Technical data

Power Supply: 12 V (min. 10 V, max. 15 V)
Max current consumption: 2x10 A
Temperature Min / Max: -25 to +70° C
Standby current consumption: <3 mA
Input: 1x -12V for fold / unfold, 1x +12V for unfold

3. Delivery contents

1 x Module
1 x cableset (8-pole)
1 x Installation instruction german

4. Safetyinstructions

In order to get a good result please install the module carefully. You will need different tools (depending on your car) and knowledge in order to install the module on your own.

Please make sure to install the cables clean and tidy so that they can not get damaged or kinked. The best is to put the cables into the original cable duct wherever possible. If you have standalone cables please fix them with cable fixer. Not used cables should be fixed and isolated! You can use „Kabeldiebe" (little plastic thing which connects one cable to another).

All here named connections are only meant as a hint. Please make sure that you find a corresponding cable in your car and most important please always check the polarization before you connect the module to any part of your car.
Please also keep in mind that all metallic parts of your car offer -12V, so please ensure that no cables get connected to metallic parts of your car at any time.

5. Installation

Place to choose

You should install the module at a place where you can easily get the needed connections (best is behind the dashboard, behind the light switch or near the fuses). Please ensure that the module is placed at a dry place

+12V permanent (red)

Find a cable that offers +12V permanently (even with ACC off), connect the red cable to this.

Ground (black)

Connect the black cable to a -12V cable or a ground point at the body of your car.

+12V ACC (orange)

Connect the orange cable to a cable that has +12V only when ACC is on.

Switch (white)

Connect the white cable with the original switch which controls the folding / unfolding.

Central locking (gray)

Connect the gray cable with the +12V cable of one of your central locking engines.

Folding engine

The blue as well as the green cable control the folding mirrors.

Control with switch:

Use the default switch or install a new one. Connect the switch so that it sends a permanent +12V signal to the white cable. This will fold / unfold the mirrors.

Comfortcontrol

Remoce Jumper 2, the module will now fold the mirrors if you press the lock button on your remote twice. The mirrors will unfold on ACC on.
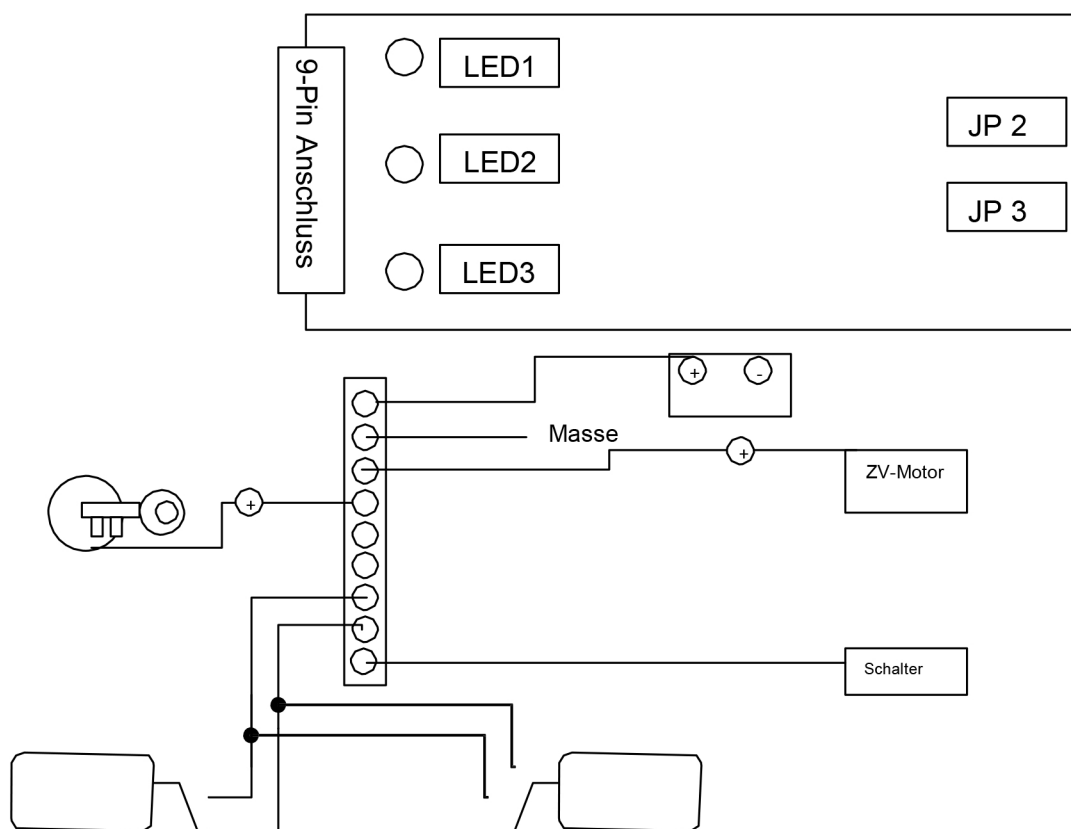
Autocontrol

If Jumper 2 is installed the module is reacting on ACC on / ACC off. After ACC off the mirrors are foldet automaticaly and are unfoldet after ACC on. In this mode you don't need to connect the gray cable.

LED

LED1 (red):   12V connected
LED2 (green):   Autocontrol active
LED3 (yellow):   Comfortcontrol active

6. Connection diagram

7. Functionality

Control by switch

Press the switch short: The mirrors will fold
Press the switch again: The mirrors will unfold

Autocontrol (JP2 ON)

Switch ACC to ON: The mirrors will unfold
Switch ACC to OFF: The mirrors will fold
It's normal operation if the mirrors need 3-5 seconds before they fold /
unfold

Comfortcontrol (JP2 OFF)

Switch ACC off, press the close button on your remote TWICE: The mirrors will fold.
Unlock your car, switch ACC on: The mirrors will unfold.

8. Problems

1.) The mirrors fold when they should unfold and the other way round.
Remove Jumper 3 or change the blue and the green cable.

9. Legal

Return

We offer 14 days of return for all our modules. Please contact us before sending back the module. Please never just send back the module, otherwise you will have to pay the delivery charges on your own and have the risk that the module is lost. All other legal information can be found on our website.

Warranty

We offer two years of warranty for our moduls. If your modul shows a defect please contact us before you send us the module back. Otherwise you will have to pay the delivery chages and have the risk if the module is lost.
We will test the functionaly of your module. If the module is working fine you can decide if we should send it back to you on your own cost.
If the module is defect we will have a look at the interiour oft he module. If the defect is caused by the module itself we will decide if we send you a new module or repair the old one. If we can see that the module is destroyed by your fault (e.g. +12V / -12V conected wrong way) you can decide if we should keep the module or send it back to you at your own cost. Modules that are destroyed by the fault of the owner are not repaired or changed.

Please NEVER open a module yourself, otherwise the warranty will be lost.

Please keep in mind that the electronic of cars can/will be different. Therefore please double check all connections before you connect the module. Please also check that there can't be any damages or malfunctions to your car.
We don't offer any warranty for your car this is for damages to your car directly caused by the module as well als indirectly e.g. because of not working lights etc.

Legal situation

We don't check the legal situation in your country. Please make sure that the functionality of our module is allowed in your country.