

CARMODULE.DE

The new dimension of cartuning



Installation

automatic curb parking -Modul

1. Introduction

Dear customer,

thank you for buying our automatic curbside parking module and congratulations.

Today nearly every car offers electric side mirrors while the automatic curbside parking function was only available in premium cars.

We offer this comfort function now for every car

What is an automatic curbside parking function?

If you put in the reverse gear the right side mirror will change its position so that you can see the curb while driving backwards. This makes it much easier to drive backwards without damaging your fender.

What does the module offer?

- ◆ Easy installation in nearly every car with 12V electronic and electric mirrors.
- ◆ The position the mirror is changed to can be programmed
- ◆ The module recognizes different drivers with different mirror positions and adjusts the position according to the driver. (the end position is the same for all drivers)
- ◆ Two different modes – mirror goes to curbside position when the reverse gear is put in or when the reverse gear is put in twice only.
- ◆ Easy programming only with the default switches, programming can be changed as often as you wish.
- ◆ Disturb function, the mirror goes back to default position if you move the mirror manually
- ◆ Function can be disabled e.g. curbside function only active if the mirror selection is set to left.

2. Technical Data

Power Supply: 12 V (min. 10 V, max. 16 V)

Maximum current consumption: 15 A

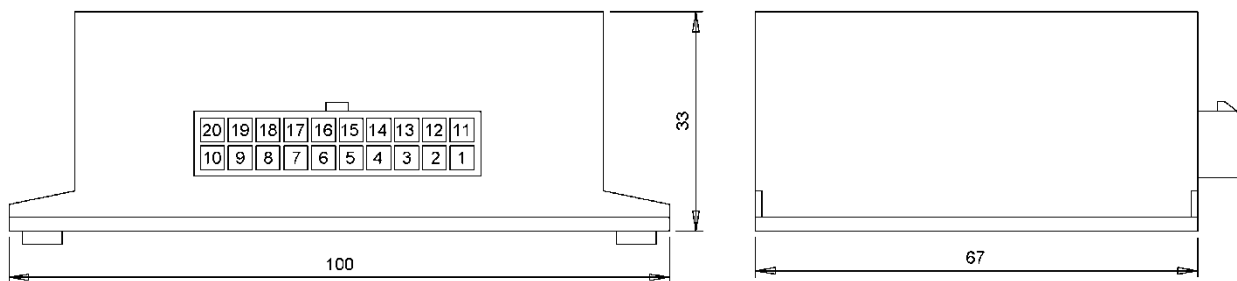
Temperature Min / Max: -10 to +80° C

3. Delivery contents

1 x automatic curbside Module

1 x cable set (20-pole with 10 cables)

1 x Installation instructions German



4. Safety Instructions

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 install

You should install the module at a place where you can easily get all needed cables. That could be near the fuses or around the co-driver area. The module has to be safe for dust and moisture.

Permanent +12V

Search a +12V cable in your car and connect the red cable with it.

Ground

Connect the black cable with ground.

Backward gear

Connect the white cable with a signal for the backward gear. That could be for example a signal from the gearbox or from the backward light.

Mirror engine

Search for the cable that controls the horizontal change of the mirror engine (right mirror). This are in most cases two cables which have +12V or -12V. If the mirror turns upwards one cable has +12V the other -12V if the mirror turns downwards the cables are switched.

Cut this two cables. Connect the cable that comes from the mirror switch that has +12V if the mirror goes upwards with the blue/green cable, connect the other cable with the blue/white cable.

The cables that go to the mirror should be connected to the black/white and green/white cable. The black/white cable has +12V when the mirror goes upwards and -12V when the mirror goes downwards. The green/white cable has the opposite.

Optional: Magnetic switch

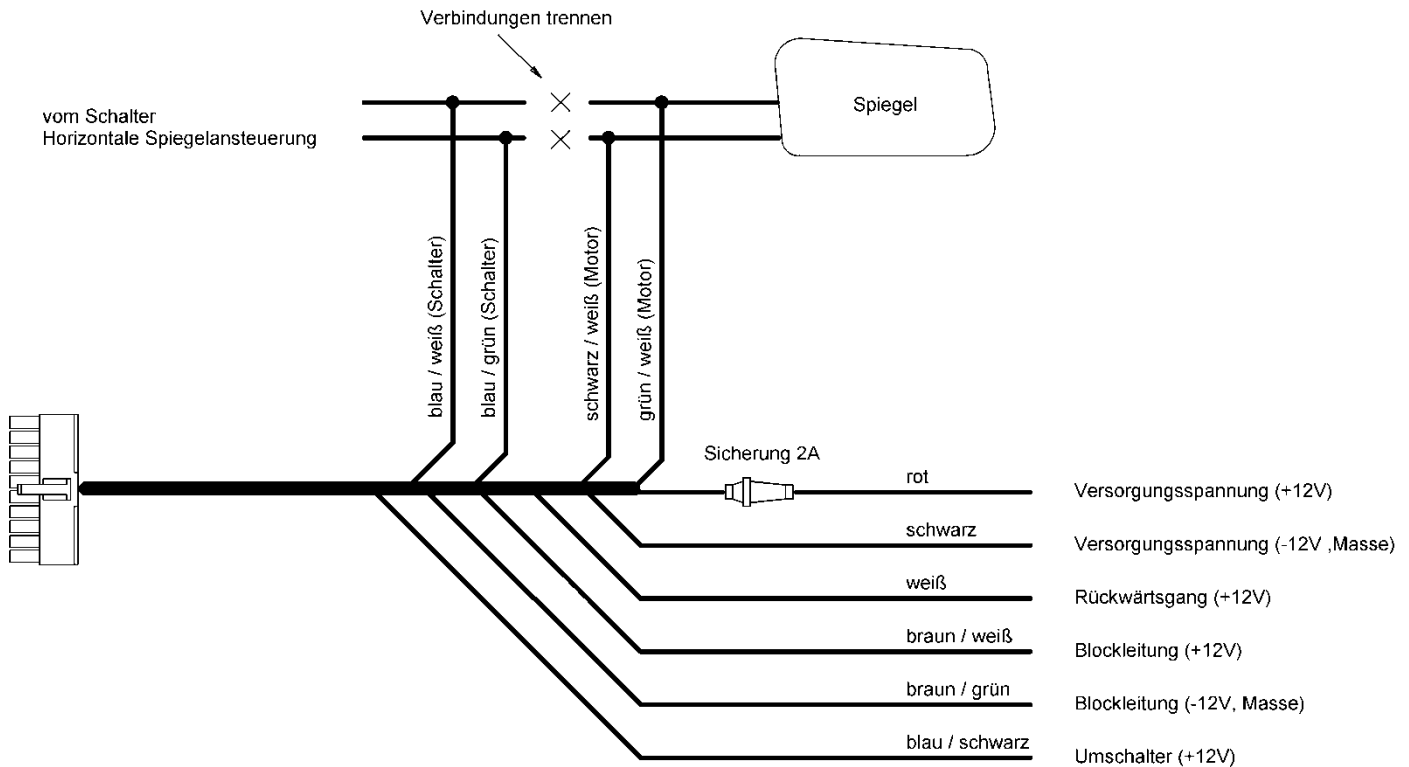
Some Cars have no split cables for horizontal and vertical changing. That is for example the case with BMW. In this case you have to connect the blue/black cable additionally with the magnetic switch of the mirror. This switch selects if the mirror should move horizontally or vertically.

Optional: Block-cables

The brown/white and brown/green cables work as block cables. When the module receives +12V on the brown/white cable or -12V on the brown/green cable the module stops all functionality.

This cables could be connected to an extra switch that turns the module on and off or to the select switch that controls the left/right mirror. This would cause that the function is only active if this switch stands on left or right.

6. Connection diagram



7. Programing

Programing the curb position

The programing should be done while the engine is running.

After installing the module you can start the programing. Start the engine and position the mirror in your normal driving position.

Put in the backward gear, the mirror should go down a little bit now. Manually adjust the mirror to the desired curb position (you should see the wheel and the road).

Take out he backward gear, after 5 Seconds the mirror will go back to the driving position.

Selecting the mode

The mode will be changed each time you do the following.

Put in the backward gear and wait until the mirror reached the curb position.

Put in and out the backward gear 5 time in 6 Seconds.

So: out - in - out - in - out - in - out - in - out - in

The mirror will now go up a bit and directly down again.

If this happens once you are in mode 1 if it happens twice you are in mode 2

You have to wait at least 10 Seconds with put in backward gear before you restart the programming

8. Function

After the programming you can use the module as follows:

You or any other driver can change the mirror position as you like, each time you change the mirror position your curb position is adjusted accordingly (the curb position will always be the same).

In mode 1 the mirror will go to its curb position after you put in the backward gear once, the mirror will need about 2 seconds to go to its curb position. If the backward gear is not put in for 5 seconds the mirror will go back to the driving position.

In mode 2 the mirror will only go to the curb position if you put in the backward gear twice within a short timeframe (so in-out-in). The mirror will go back to the driving position if you put in the backward gear twice again (out-in-out-in-out) the same happens if the backward gear is put out for more than 10 seconds.

If you disable the engine the mirror will for safety reasons automatically return to the driving position.

While the mirror is going to the curb position you can disturb this at any time by pressing the mirror control switch.

After the mirror reached the curb position you can correct the curb position by adjusting the mirror with the mirror control switch.

If you activate one of the block cables the module will always go back to the driving position and ignore any further back gear signal.

9. Problems

1.) After connecting the module the mirror is reacting the opposite direction than it normally should (you try to go upwards and the mirror goes downwards).

You have mixed up the cables that go to the mirror engine or that come from the mirror switch. Please change the cables (see 2.)

2a.) The mirror moves horizontal instead of vertically when the module controls the mirror.

It seems you have a magnetic control switch in your mirrors. Please see the instruction again how to connect that switch.

2b.) The mirror moves horizontal instead of vertically if you control it manually and if the module controls the mirror.

You mixed up the cables for horizontal and vertical control. Please review the installation instruction carefully.

3.) If you put in the backward gear the mirror is going upwards instead of downwards, the manual mirror control works fine.

In this case you mixed the two cables that go to the mirror. Please change all cables (the two from the control switch as well as the cables to the mirror).

4.) The module is not working at all.

Please verify that the module gets power (+12V and GND)

Please check that the module gets a signal from the backward gear (+12V)

Please check with a voltmeter if the module is putting +12V / GND on the cables that go to the mirror. Perhaps you changed to mode 2?

Verify that you don't have a signal on the block cables

5.) The mirror is always going up to much (above your driving position)

If the mirror is always going up to much or to less you can change the setting. On the back of the module you find a small controller. If this controller stands on "middle" position the mirrors always go up the same time they go down. If the controller is change to "left" the mirror goes up less time than down and if it is changed to "right" it is going up more time than down.

Try to find the right position until your mirror always goes back to the exactly right position.

Please be careful to not destroy the controller, normally you should only move it in very little steps (so please don't turn it more than 1/10 each time.)

10. 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 modules. If your module shows a defect please contact us before you send us the module back. Otherwise you will have to pay the delivery charges and have the risk if the module is lost.

We will test the functionality 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 interior of the 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 connected 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 electronics 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 as 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.