AutoDipDown Module V2

Operation Manual V1.00



© 2022 JN-Elektronik Jens Neumann

1. Introduction

This product is designed to be installed by qualified technicians only. Improper installation can result in damage to your vehicle. it is the installers responsibility to verify all wires prior to making any connections. due to the harsh environment found in vehicles we recommend always soldering and securely taping every connection made.

If the device is opened the guarantee expires, the warranty is unaffected by this.

© 2022 JN-Elektronik Jens Neumann

2. Connection of the AutoDipDown Module



Alle hier gezeigten Leitungsfarben sind frei gewählt und entsprechen wahrscheinlich nicht den Kabelfarben an Ihrem Fahrzeug. All cable colors shown here are freely chosen and probably do not correspond to the cable colors on your vehicle.

Pin assignment of the connector plug:



- 1 (red) = Battery Power 12V (continuous power clamp 30)
- 2 (black) = Ground (clamp 31)
- 3 (orange) = Mirror adjustment switch horizontal (+)
- 4 (yellow) = Mirror adjustment switch horizontal (-)
- 5 (brown) = Mirror motor horizontal (-)
- 6 (pink) = Mirror motor horizontal (+)
- 7 (violet) = Reverse gear (+12V)
- 8 (white) = Switching signal (+12V, for connection to vehicles that do not have separate lines for the horizontal and vertical adjustment of the exterior mirror. A separate switching signal is required here, which my module provides with +12V)

© 2022 JN-Elektronik Jens Neumann

3. Functionality

The integrated LED of the AutoDipDown Module never lights up permanently to save energy, it only flashes once every 4 seconds!

The AutoDipDown module works completely without sensors on the exterior mirror. It works on a time basis and measures the time how long the mirror motor is active. This time is processed further. As a result, it can also happen that the mirror has to be readjusted due to mechanical conditions using the mirror adjustment switch or the integrated potentiometer. This is expressly not a defect which justifies a return. If reverse gear is engaged, the exterior mirror moves to the curb position after approx. 0.5 seconds. If you take out the reverse gear again, the mirror moves back to its original position after approx. 3s.

4. First Setup

After the module has been connected, the initial setup can take place. For all adjustment work the mirror adjustment switch must be switched to the passenger side. The position of the mirror adjustment switch is irrelevant for the AutoDipDown function.

- 1. Insert reverse gear The exterior mirror moves down a bit
- 2. Use the mirror adjustment switch to align the outside mirror with the curb so that you can see both the curb and a piece of the rim
- 3. Take out reverse gear. The exterior mirror automatically returns to its original position.
- 4. Finish!

When the initial setup of the module is complete, it can be used immediately. The exterior mirror can now be adjusted as desired. Once the automatic curb function has been set, it is automatically adjusted as well. This ensures that other drivers can also use this function without further ado.

AutoDipDown Modul V2.00

© 2022 JN-Elektronik Jens Neumann

5. Offset setting via potentiometer

There is a so-called potentiometer on the left side of the AutoDipDown module.



The AutoDipDown module raises the exterior mirror exactly at the same time as it lowered the exterior mirror. It can happen that the exterior mirror does not return exactly to its original position, either because it was raised too far or not far enough.

The reason is to be found in the mechanics and/or the motors. The AutoDipDown module offers an offset controller (potentiometer) with which you can influence the ramp time. This time is fixed at ± 1 second. In the center position the time is 0 seconds, set to the far left -1 second, set to the far right +1 second.

This setting only changes the ramp up time after disengaging reverse gear. The dip down time remains unaffected.

AutoDipDown Modul V2.00

© 2022 JN-Elektronik Jens Neumann

6. Deactivating the automatic lowering



If automatic lowering is not desired, this function can also be deactivated. To do this, the mirror adjustment switch must be pressed down twice (similar to double-clicking a mouse) within 0.5 seconds. If the mirror is already lowered at the moment of deactivation, it returns to its original

position. The AutoDipDown function is thus switched off. To turn it on again, repeat the same process. If reverse gear is engaged when activating, the mirror moves to the saved curb position. All changes to the horizontal setting of the exterior mirror are automatically corrected even if the module is deactivated.

7. Reset the module to factory settings



Should it happen that the module does not work as desired, it can be reset to the factory settings. The saved times and the status of the activation will be reset.

To do this, please proceed as follows:

- 1. Set the mirror adjustment switch to passenger side
- 2. Take out the reverse gear
- 3. Set the exterior mirrors to the normal driving position using the mirror adjustment switch
- 4. Within approx. 4 seconds, press the mirror adjustment switch button 8 times for the horizontal movement upwards. The adjustment of the mirror by repeatedly pressing the mirror adjustment switch is automatically corrected again.
- 5. The previously set curb position of the exterior mirror is hereby reset and can now be readjusted as described under point 4.

8. Specifications

Operating voltage: 12VMax. current consumption during operation: 0.5A Dimensions in mm (I x w x h): $63 \times 60 \times 21$