

Wiring kit for tow bars, 7-pin, 12 Volt, according to ISO 1724

For use on: **MERCEDES BENZ W 168 A-Class from 10/97**

Article no. **727003**

General advice for this wiring kit:

- **Before starting work always read the installation instructions completely. After installation of the electrical installation kit give the installation instructions to the customer or owner of the vehicle for various operating information.**
- **The electrical installation kit should be installed by a specialized workshop or qualified person.** Improper use or modification of the wiring kit or parts thereof invalidates the warranty. Electronic devices such as indicator relays, indicator control units etc. are non returnable.
- Before drilling any holes ensure that sufficient clearance is present.
- **When attaching the socket ensure that -**
the connection lines are not pinched.
the switch for rear fog light control inside the housing of the socket is not blocked.
the gasket at the line opening in the socket is properly seated on the insulating tubing.
- Route the wiring harnesses thoroughly to prevent chafing. Ensure that sufficient clearance is present to sources of heat (e.g. exhaust system).
- **It is essential for trailer indicator monitoring to connect the AFC-module to 12 volt constant positive current as described in chapter 4.**
- When operating the vehicle with a failure of an indicator bulb on the trailer, this is indicated by the indicator light inside the vehicle (turn signal indicator light) lighting up in doubled interval. Installation of an additional indicator light (C2) is not required when using this wiring kit.
- **Check proper working order of the wiring kit by use of a suitable light tester or trailer.** Testers without or with improper resistor load are unsuitable for testing.
- The rear fog light is switched off on the towing vehicle by the breaker switch integrated into the 7-pin socket immediately as soon as the trailer plug or an adapter is inserted. For this reason always remove any adapter used from the socket when no trailer is connected.

Kit includes:

1 socket 7 pin including rear fog switch off
1 rubber seal for socket
1 fuse holder
1 AFC module (trailer indicator control module)
1 wiring harness 8-conductor
1 rubber grommet

3 screws M5 x 35
1 screw M5 x 12
4 nuts M5
4 serrated washers
2 cable straps 300 mm
8 cable straps 100 mm

1. Disconnect vehicle battery

- **Ensure** that no saved **data are lost** when the vehicle battery is disconnected (e.g. in cockpit computer, immobilizer, radio, fault memory, etc.). **Observe vehicle manual and manufacturer's specifications.**
- Disconnect ground connection from vehicle battery. To prevent short circuits and for safety reasons it is only permissible to install the wiring kit with the vehicle battery disconnected.

2. Drill passage for wiring harness

- Remove boot trim left and right as well as rear apron trim. Lift up boot floor cover and remove spare wheel.
- Drill **25 mm diameter** hole at suitable even position in the back of the spare wheel well. Deburr edges of hole, apply corrosion protection agent and allow to dry.

3. Installing 8-conductor wiring harness and socket

- Slip enclosed rubber grommet onto 8-conductor wiring harness, eventually use suitable lubricant.
- Route end of 8-conductor wiring harness with tip caps through passage described in point 2 through boot to the outside and then on from rear through hole in socket mounting plate on tow bar.
- Apply rubber boot for the socket onto the end of 8-conductor wiring harness.
- **Remove the enclosed contact insert and connect as follows:**

Wire	Contact No.	Function
Black/white	1/L	Left turn signal
White	2/54g	Rear fog light on trailer
Brown	3/31	Ground (for contacts No. 1 to 8)
Black/green	4/R	Right turn signal
Grey/red	5/58R	Right tail light
Black/red	6/54	Brake light
Gray/black	7/58L	Left tail light
Black	8/58b	Rear fog light towing vehicle

- Relocate the built-up insert into its housing, push the rubber boot against the socket and bolt the set to its mounting plate at the tow bar, using enclosed bolts, washers and nuts.
- Position passage grommet mounted on wiring harness and insert into drilled hole in spare wheel well.

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- Route the wiring section marked **L** to the **left tail light**.

Remove the vehicle's own 6-pin connector from the left tail light and match it up with the fitting opposite of the wiring harness and click-in.

Place the combination onto the left tail light and click-in.

- Connect terminal tag on **brown** leads to ground connection point on bodywork close to left tail light.

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- Route the wiring section marked **R** to the **right tail light**.

Remove the vehicle's own 6-pin connector from the right tail light and match it up with the fitting opposite of the wiring harness and click-in.

Place the combination onto the right tail light and click-in.

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- Connect the enclosed **AFC-Module** to the cable-set 10x plug housing and fit it on a suitable place behind the covering on the right side in the boot using the enclosed M5 x 12 screw and M5 nut.

4. Connect fuse holder with harness

- Remove the battery cover located in the right side cabin floor.
- Connect end terminal (**red/yellow**) of the enclosed fuse carrier to the positive pole of the battery.
- Remove the trim on the right A-pillar, pull the carpet behind forward.
- Route the **red/yellow** lead coming from the AFC-Module in the boot to the fuse holder through the right wiring duct alongside the vehicle's wiring loom and connect it to the free end of the readily installed fuse holder.

5. Function check and final installation

- Reconnect vehicle battery.
Check the individual functions in the socket and the electrical kit as well as the functions of the vehicle lighting.
- Fasten all lines in the installation kit – use cable fasteners present or enclosed cable straps. Reinstall all paneling and other parts removed.