HELLA-GUTMANN CSC-Kit Camera Calibration Instruction Manual

HELLA GUTMANN SOLUTIONS

CSC-Kit Radar II
Operating and install. instr.
BD0059V0001EN1215S0
460 985-33 / 12.15

Contents

Product description

1.1 Delivery contents

Quantity 1	Designation	
1	Centring ring for the Mercedes E- Class The centring ring for the Mercedes E- Class can be used for this vehicle type only.	
1	Centring ring for vehicles from MY 2004 The centring ring for vehicles from MY 2004 on can be used for t he following vehicle types: • Vehicles of model year 2004 • Commercial vans • EVO • Buses of model year 2005-	
4	Binding head screws	
1	Adjusting device with vacuum bell	
1	Manual vacuum pump with vacuum hose	
1	Nut driver 3.0 mm for replacing the centring ring	
1	Hex socket screwdriver 3.5 mm for adjusting the radar sensor	
	Vaseline	
	Case for CSC-Kit Radar II	
	Operating and installation instructions	

1.1.1 Checking the delivery contents

Please check the delivery contents upon receiving your tool so that complaints can be issued immediately regarding potential damage or missing parts.
To check the delivery contents:

1. Check the package delivered to ensure that it is not damaged.
   Should you identify any damage to the package, then open the package in the presence of the delivery service and check the CSC-Kit Radar II for hidden damage. Any transport damage to the package supplied and damage to the CSC-Kit Radar II shall be registered in a damage report by the delivery service.
2. Open the package supplied and check for completeness based on the delivery note.
3. Remove the CSC-Kit Radar II from the packaging.
4. Check the CSC-Kit Radar II for damage and completeness.

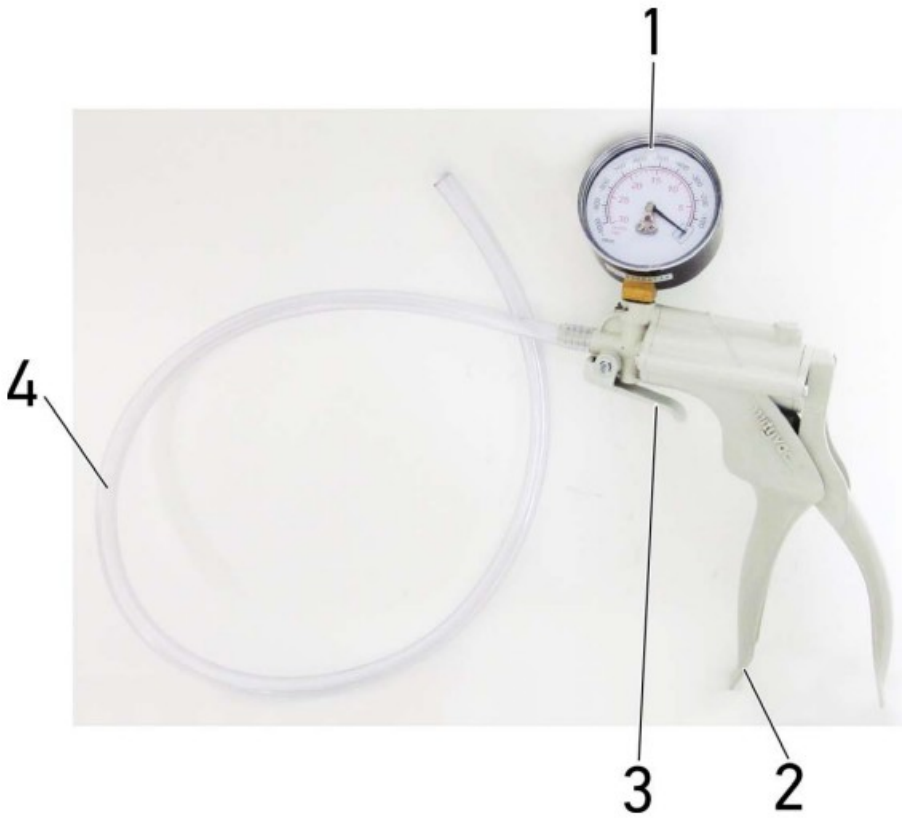
1.2 Intended use

The adjusting device for driver assist systems is used for the calibration of radar sensors of vehicles.
The adjusting device is fixed onto the radar sensor in the front of the vehicle. Pay attention to apply at least -600 mbar vacuum to the device by using the manual vacuum pump. Afterwards a laser beam is directed to the mirror.

1.3 Adjusting Device

	Designation
1	Locking pin This pin prevents the incorrect fixation of the adjusting device to the centering rings.
2	Vacuum bell This bell is used to fix the adjusting device to the radar sensor.
3	Level gauge It indicates the correct horizontal position of the adjusting device.
4	Catch chain This prevents the adjusting device from falling down.
5	Vacuum hose This creates a vacuum.
6	Adjusting device mirror This reflects the laser beam onto the laser module scale.

1.4 Manual Vacuum Pump



	Designation
1	Pressure gauge Here you can read the current pressure.
2	Pressurization lever Push this lever to create vacuum.
3	De-pressurization lever Push this lever to release pressure.
4	Vacuum hose Connecting hose to adjusting device

Putting into Operation

2.1 Precondition for the Assembly of the CSC-Kit Radar II

- CSC-Kit Radar I is available.
- Adjusting device and radar sensor checked for cleanness.
- Check the vacuum bell for leaks.
- Horizontal position of the vehicle on even surface ensured.

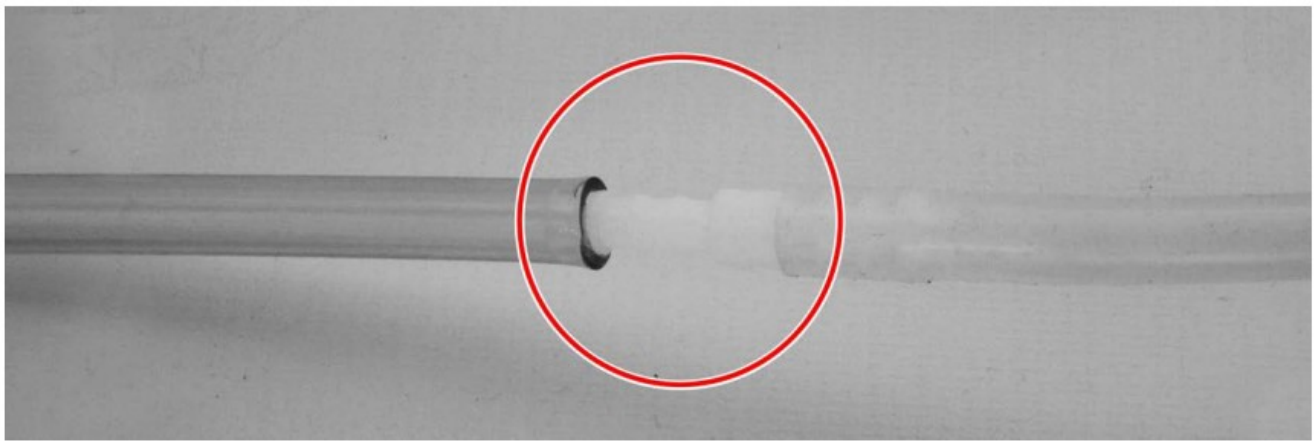
2.2 Fixing the CSC-Kit Radar II to the vehicle

Proceed as follows to fix the CSC-Kit Radar II to the vehicle:

☞	**NOTE** When the adjusting device is placed on the centring ring, the arrow and Top on the adj usting device must align with the arrow and Top on the centring ring.

1. Place the adjusting device on the desired centring ring.
2. Insert the 4 screws and screw in carefully.

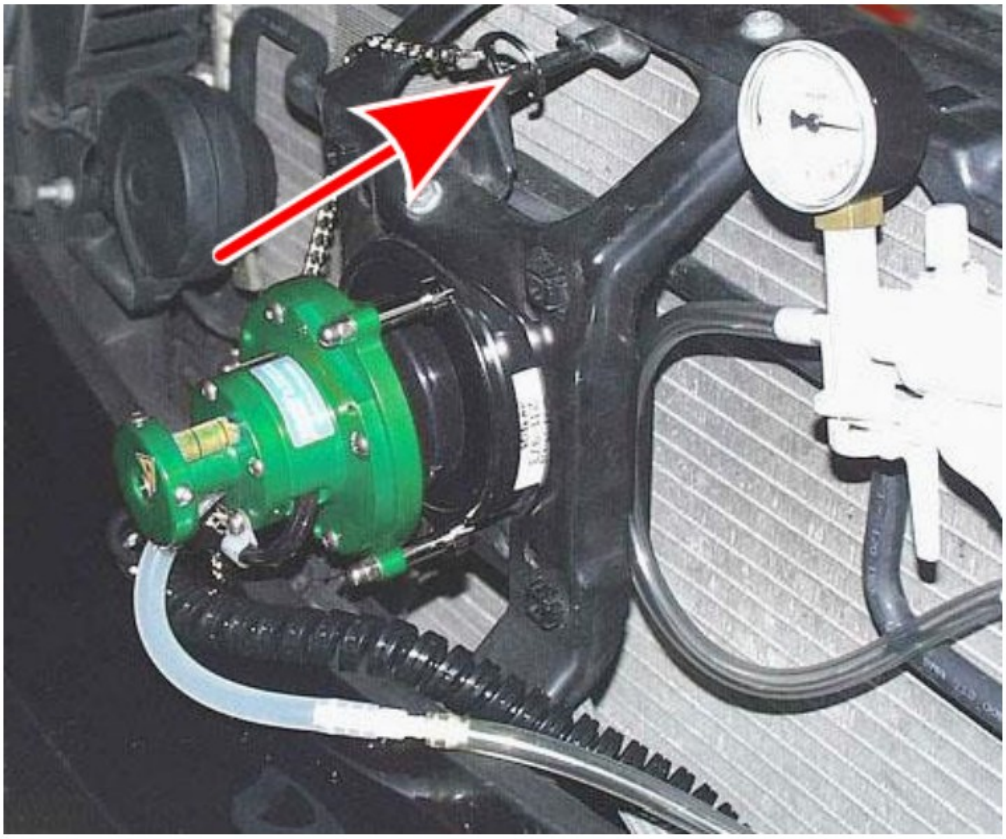
3. Insert the hose of the adjusting device inside the hose of the manual vacuum pump.
   Only insert the hose partially, as the hose will contract due to the vacuum.



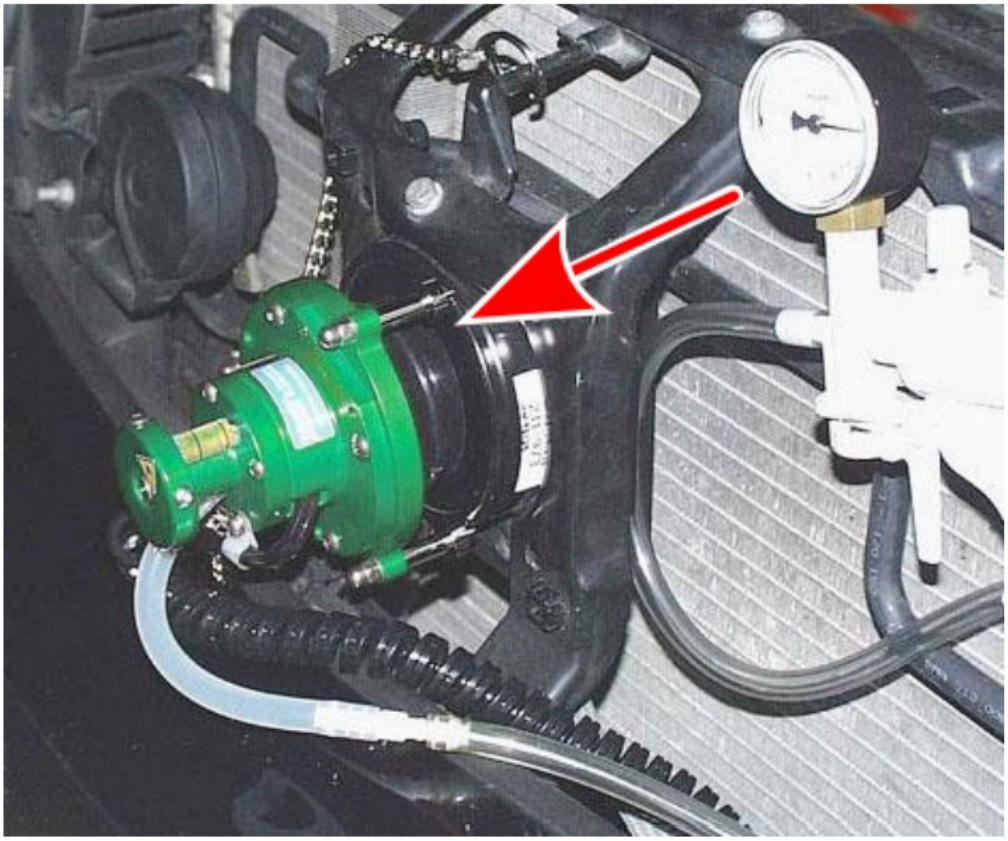
4. Lubricate the inner edge of the vacuum bell with Vaseline.
   This produces a strong vacuum and improves adhesion.
5. Lubricate the cover of the radar sensor with Vaseline.
   This produces a strong vacuum and improves adhesion.

☞	**NOTE** A vacuum may only be created with the manual vacuum pump once the adjusting d evice has been positioned exactly onto the radar sensor.

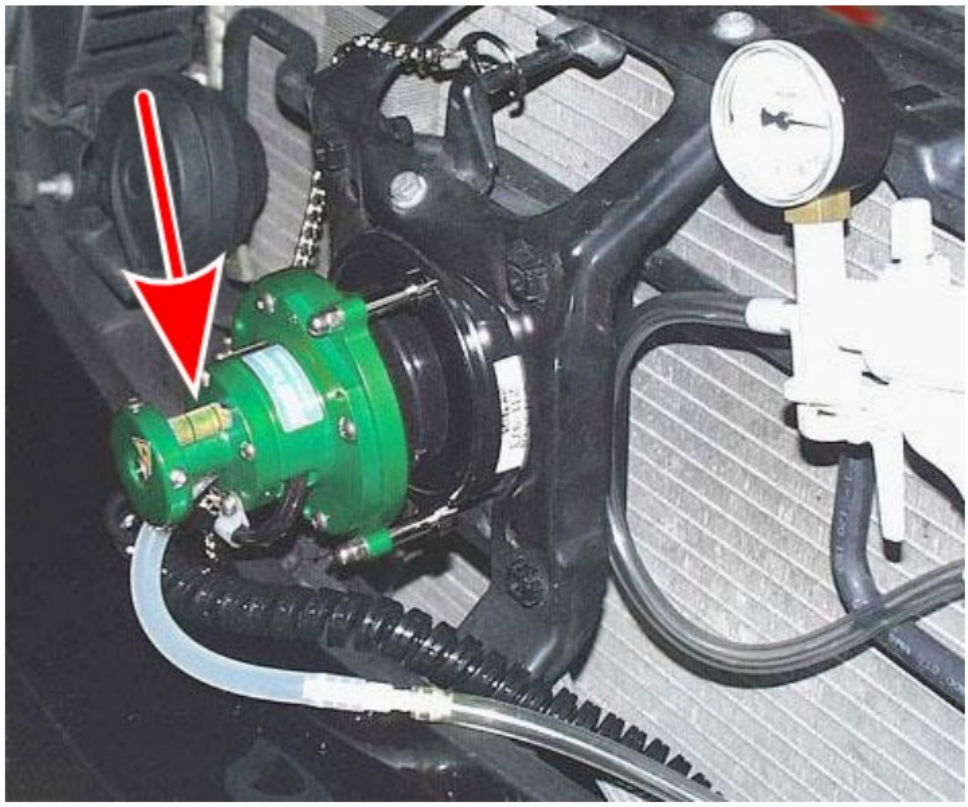
6. Fix the catch chain at a suitable position on the vehicle.



7. Position the vacuum bell over the radar head.



Calibration can begin once the level gauge bubble is centred.



8. Create a vacuum using the pressurization lever on the manual vacuum pump.
   The pressure gauge displays the contact pressure.
   This must be at least -600 mbar.
9. Perform the radar sensor calibration as described in the operating instructions.

Technical Data of the Adjusting Device

3.1 General Data

Material	Aluminum, green anodized, Nirosta-processed
Dimensions	90 x 330 x 380 mm (H x W x D)
Weight	approx. 2500 g

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Documents / Resources

	**HELLA-GUTMANN CSC-Kit Camera Calibration** [pdf] Instruction Manual CSC-Kit Camera Calibration, CSC-Kit, Camera Calibration, Calibration

References

- gutmann.com
- Hella Gutmann Solutions GmbH: Hella Gutmann Solutions
- User Manual

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