

**#VEHICLE
EXPERTEERS**

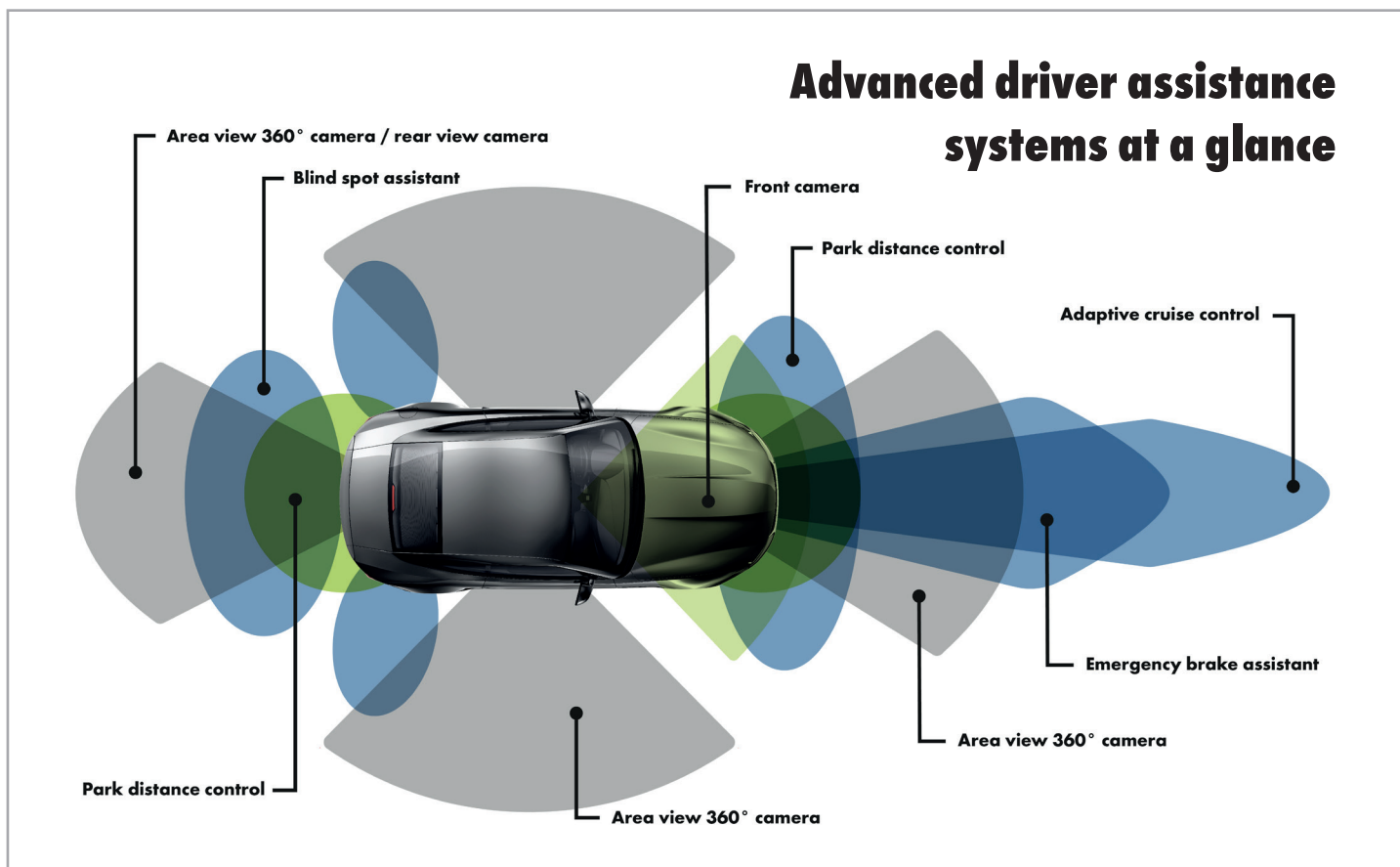


WOW! ACS CARS CALIBRATION SYSTEM

**Calibrate advanced driver assistance systems
quickly, easily and profitably**

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Additional electronic devices in vehicles that help the driver in certain driving situations.



The main focus is on the safety aspects and the increased driving comfort.



Another important reason is the improved economy.

ADVANCED DRIVER ASSISTANCE SYSTEMS (ADAS)



When do these systems need to be calibrated? *



After an accident

After changing the installation position

After replacing the windscreen

After changing the vehicle level: wheel alignment, lowering

When there is an entry in the error memory

In the case of a malfunction/customer complaint

If a component was defective or replaced

In the case of instructions from the respective manufacturers

* Please refer to the specifications and information of the respective manufacturers.

The correct adjustment with WOW! ACS cars

5 GOOD REASONS FOR THE WOW! ACS CARS CALIBRATION SYSTEM

WOW! ACS cars – For all relevant vehicle makes

With WOW! ACS cars, we offer you a robust and workshop-compatible calibration system with which you can calibrate all relevant vehicle makes flexibly and easily.



Cross-manufacturer approach

We provide you with a 100 % manufacturer-specific calibration system that is put together for you taking into account the original manufacturer's specifications.



Everything from a single source

Together with our DIALOOQ diagnostic hardware and software solutions, with WOW! ACS cars we offer you the optimal solution for your demanding daily workshop routine.



One-man operation

The simple operation of the WOW! ACS cars calibration system enables you to work effectively and time-efficiently.





Your comprehensive and professional service

From delivery to on-site installation and service after commissioning. You have a direct contact person and we are there for you in any situation.



For further information please visit
www.wow-portal.com/acs_cars_en

WOW! ACS CARS CALIBRATION SYSTEM



High-quality and workshop-compatible system for advanced driver assistance systems



WOW! ACS cars basic carrier system including wheel clamps*

Art. no. W074 200 000

- Powder-coated, height-adjustable, spring-balanced calibration board holder (1.0 m to 1.85 m) or trolley with manoeuvring wheels, handle and knurled screw
- Height-adjustable and detachable laser carrier (0.27 m to 1.0 m with additional fine adjustment) with two mounted laser pointers
- Measuring scale for height adjustment of calibration board holder and laser carrier
- Two self-centring, four-point wheel clamps (for 11-25 inch rims)

Metal box with the following equipment:

line laser, tape measure, two mirror/scale units and tape measure holders



Matching accessory:
Case for measuring tools**
Art. no. W074 214 000

For storage and protection of accessories.

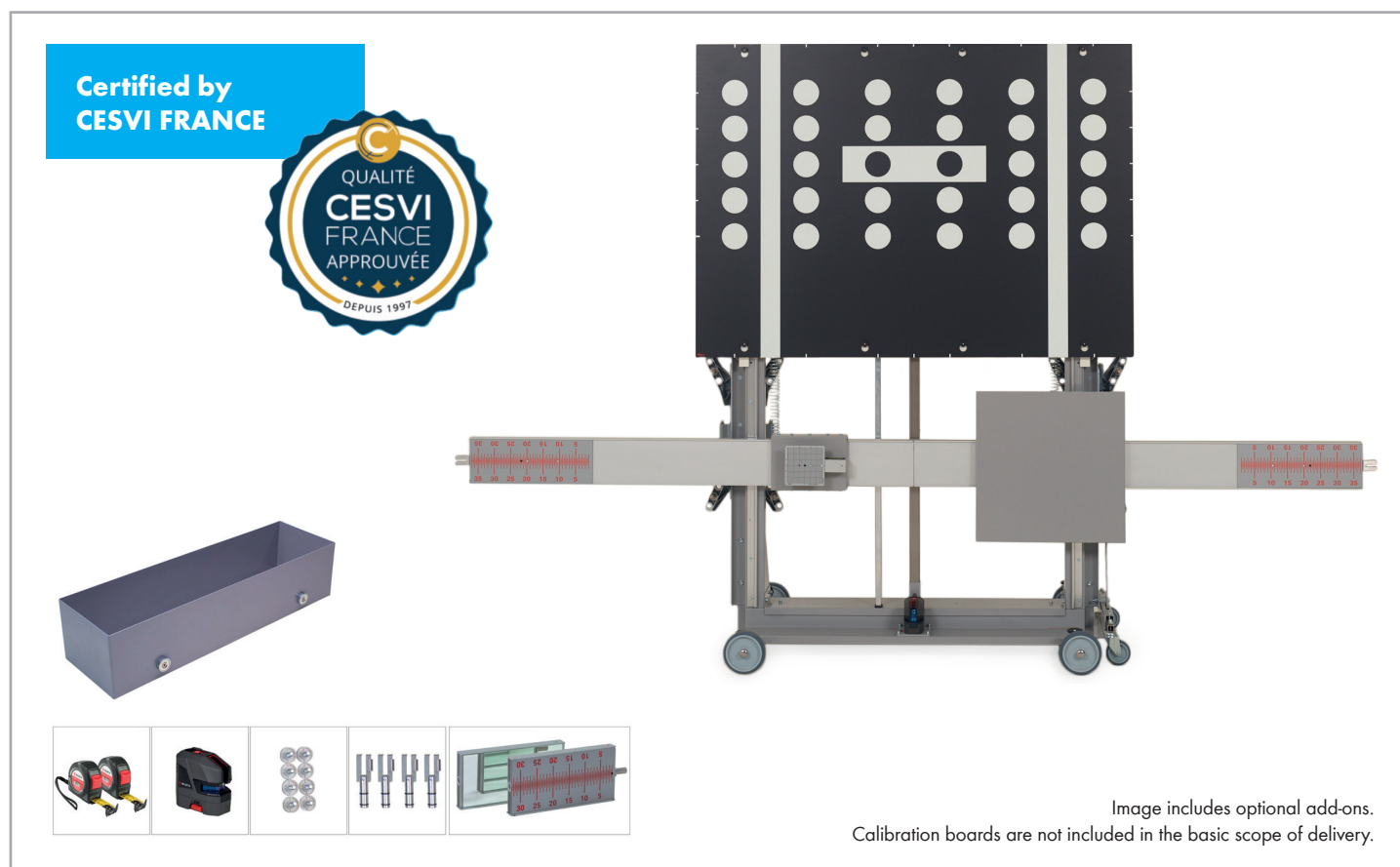
* Basic scope of delivery does not include double-sided printed calibration boards.

** Contents not included.

WOW! ACS CARS CALIBRATION SYSTEM



Technical data





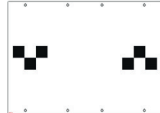
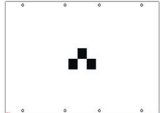



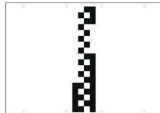

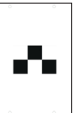
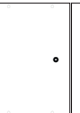

Material	Powder-coated, welded steel trolley
Dimensions (L x W x H)	1950 mm x 1200 mm x 800 mm
Weight	approx. 90.0 kg
Height adjustment of board holder	From 1000 mm to 1850 mm on linear guide rails
Total width of laser carrier bar	2820 mm
Laser type, laser carrier bar	Line laser, laser class 2
Power supply to laser in laser carrier bar	2 Mignon AA 1.5 V batteries per laser
Laser type, mounting plate	Line laser, laser class 2
Height adjustment of laser bar	From 270 mm to 1000 mm
Wheel clamp material	Galvanized with stainless steel mounting shaft
Clamping range of wheel clamp	11 – 25 inch rims

MATCHING ACCESSORIES

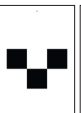
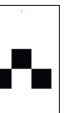
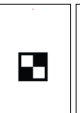

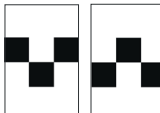



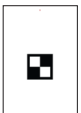
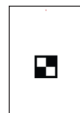


Double-sided printed calibration board

With our double-sided printed calibration board in OEM quality we enable the correct adjustment of the camera systems using WOW! ACS cars. The printing on both sides allows maximum flexibility at a lower cost than individual boards.

<p>VW and Mercedes Art. no. W074 210 000</p> <p>Double-sided printed</p>	  <p>TFC-1 TFC-2</p>	<p>Nissan and Hyundai Art. no. W074 210 006</p> <p>Double-sided printed</p>	  <p>TFC-13 TFC-14</p>
<p>FCA and Alfa Art. no. W074 210 002</p> <p>Double-sided printed</p>	  <p>TFC-5 TFC-6</p>	<p>Renault Gen. 2 and PSA Art. no. W074 210 009</p> <p>Double-sided printed</p>	  <p>TFC-3 GEN2 TFC-4</p>
<p>Nissan and Mazda 1 Art. no. W074 210 003</p> <p>Two boards separated and double-sided printed</p>	    <p>TFC-7 TFC-8</p>		

The following can only be used in conjunction with the adjustment rails:

<p>Mitsubishi and Mazda 2 Art. no. W074 210 004</p> <p>Two boards separated and double-sided printed</p>	    <p>TFC-9 TFC-10</p>	<p>Honda 1 + 2 and Kia/Hyundai Art. no. W074 210 007</p> <p>Two boards separated and double-sided printed</p>	    <p>TFC-15 TFC-16 TFC-17</p>
<p>Toyota 1 + 2 Art. no. W074 210 005</p> <p>One board, double-sided printed</p>	  <p>TFC-11 TFC-12</p>		

Adjustment rails

Art. no. W074 210 008

For holding the calibration boards Mitsubishi and Mazda, Toyota 1 + 2, Honda 1 + 2 and Kia/Hyundai.

- Consisting of two rails, one printed with dimensions
- Dimensions (L x W x H): 7.4 cm x 1.0 cm x 160 cm
- Weight: approx. 3 kg

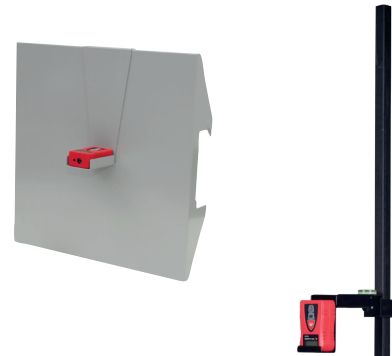


Radar Kit TFR-2

Art. no. W074 211 001

Static adjustment of radar systems of **Volkswagen, Audi, Seat, Skoda, BMW, FCA** and **Nissan** models, among others.

- Consisting of reflector plate, holding device and distance laser
- Dimensions (L x W): 450 mm x 450 mm
- Weight: approx. 3.5 kg
- Laser type: Line laser, laser class 2 (radar calibration)



Radar Kit TFR-3

Art. no. see below

Enables radar calibration on models of **Lexus, Mazda, Suzuki** and **Toyota**.

- Dimensions (L x W x H): 20 cm x 18 cm x 127 cm
- Weight: Radar Kit 3: 1.937 kg, laser receiver 0.138 kg, distance laser 0.074 kg, cross line laser 0.506 kg
- Laser type: Distance laser, laser class 2; cross line laser, laser class 2
- Accuracy of laser receiver: Fine 0.3 mm, medium 1 mm, coarse 3 mm
- Size of recommended calibration station: Length approx. 15 metres, width approx. 5 metres, height approx. 3 metres



Designation	Article number	Consisting of	Use if the following is present
Radar Kit TFR-3 Set M	W074 211 005	Basic carrier system, 2 targets, laser carrier, laser receiver	WOW! ACS cars and TFR-2
Radar Kit TFR-3 Set L	W074 211 006	Basic carrier system, 2 targets, laser carrier, laser receiver, distance laser	WOW! ACS cars without TFR-2
Radar Kit TFR-3 Set XL	W074 211 007	Basic carrier system, 2 targets, laser carrier, laser receiver, distance laser, cross line laser	Without WOW! ACS cars (stand-alone solution)



WOW! calibration mats TAV-1

Art. no. W074 202 000

Manufacturer-specific calibration mats for exact calibration of 360° surround view camera systems in vehicles of the **Volkswagen Group**.

- Consisting of 2 calibration mats, 4 end strips, 1 storage bag, 1 quick start guide
- Dimensions: Calibration panel (L x W) 8 m x 0.80 m, storage bag (L x W x H) 0.90 m x 0.16 m x 0.16 m
- Weight: 9 kg
- Fire protection: B1 fire protection certified material as defined in DIN 4102-1
- Manufacturer-specific calibration corresponds to OE number VAS 721 001
- Required space: Length approx. 12 metres, width approx. 5 metres



Radar head socket wrench

Art. no. W074 211 004

The adjusting tool enables you to adjust the radar head of the Adaptive Cruise Control (ACC) on vehicles of the **Volkswagen Group**.

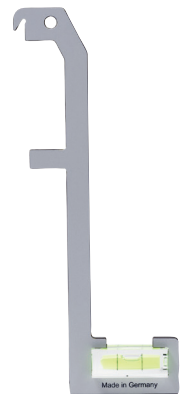
- Dimensions: Wrench size 3.5 mm, diameter 7.2 mm, length 256 mm
- Weight: 0.085 kg
- Handle: T-handle



Volvo camera calibration aid

Art. no. W074 210 010

- Adjusting tool for **various Volvo front camera systems**: VOLVO S60/V60 (18-), VOLVO S90/V90 (16-), VOLVO XC40 (17-), VOLVO XC60 (17-), VOLVO XC90 (15-)
- Consisting of a calibration aid and instructions for use.
- The tool enables the exact levelling of the camera in the holder after installation.
- Manufacturer-specific calibration corresponds to OE number 999 7529
- Dimensions of packaging (L x W x H): 23.5 cm x 13.5 cm x 7.5 cm
- Dimensions of product (L x W x H): 20.5 cm x 6 cm x 1.5 cm
- Weight: approx. 34 g



Volvo radar calibration aid

Art. no. W074 211 003

- Adjusting tool for **various Volvo radar sensors**: VOLVO S60/V60 (10-18), VOLVO S80/V70/XC70 (07-16), VOLVO V40 (12-), VOLVO XC60 (08-17)
- Consisting of a calibration aid and instructions for use.
- The tool enables the exact adjustment of the radar sensor after installation of a new windscreen.
- Readjustment of the radar after each windscreen replacement or each calibration is prescribed by the manufacturer.
- Manufacturer-specific calibration corresponds to OE number 999 7407
- Dimensions of packaging (L x W x H): 23.5 cm x 13.5 cm x 7.5 cm
- Dimensions of product (L x W x H): 9.7 cm x 7.5 cm x 1.5 cm
- Weight: approx. 32 g



CALIBRATION PROCEDURE WITH WOW! ACS CARS



1 Call up vehicle coverage list in the L00QIT software

2 Check for errors (read and erase)

3 Vehicle calibration with WOW! ACS cars



3.1

Mobile use of the system is possible thanks to the trolley with manoeuvring unit.



3.2

Adjustment of the calibration board holder for camera calibration by means of spring balancing. Possible up to 1.85 m and also suitable for vans.



3.3

Adjustment of the laser carrier for radar calibration (up to 1.0 m).



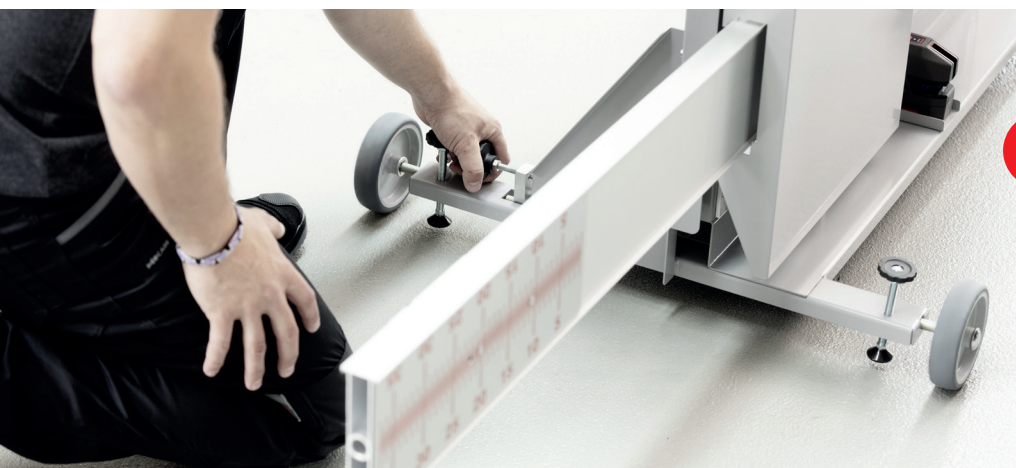
3.4

Raising and lowering of the manoeuvring wheels with the aid of the lifter lever to enable easy alignment parallel to the vehicle.



3.5

Quick attachment of the self-centring wheel clamp to 11-25 inch rims.



3.6

Easy adjustment on the trolley with star knob screw (alignment parallel to the rear axle of the vehicle).

4 Perform calibration function with the WOW! L00QIT diagnostic software.

5 Check for errors (read and erase)

6 Test drive before handover to customers

TIPS & TRICKS FOR SUCCESSFUL CALIBRATION

1. Do not set the backup current too low

In principle, an external voltage stabiliser should be attached to the vehicle, which can supply a backup current greater than 30 A.

2. Note the height difference

After selecting the calibration board (target), ensure the correct fit on the test equipment carrier and that the screw colour matches the base colour of the target. In addition, the difference in height between the calibration system and the vehicle level must be taken into account.

3. Avoid distracting light sources

Often there are error messages such as "Lighting too bright", "Lighting too dark" or "Target not detected". This can be avoided if the workshop or adjustment area are illuminated appropriately and/or daytime running lights are covered.



4. Switch on the ignition

With many vehicle models, the ignition switches off automatically after a certain time or they go into a power-saving mode. These functions can be deactivated by opening the driver's door. Alternatively, most manufacturers offer the option of putting the vehicle into "workshop mode ignition on".

5. Pay attention to the engine running

For some vehicle manufacturers, the engine must be at a stable idle during calibration. Pure "ignition on" is not enough here. In the WOW! software, this instruction is automatically displayed during calibration.

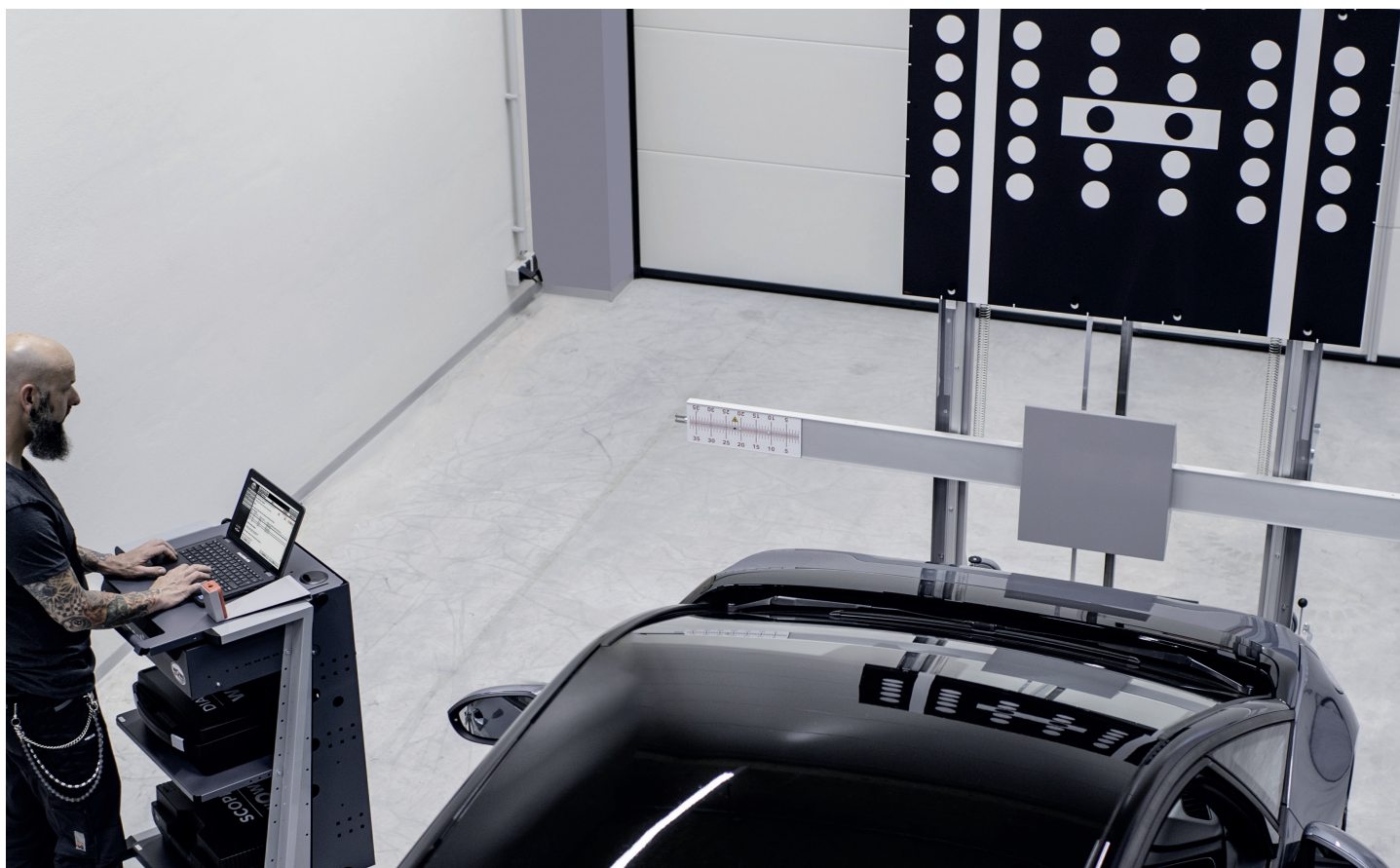
6. Activate control units

Due to the component protection, many safety-related components such as radar units or cameras as well as their control units must be activated with the OE software after new installation.

WOW! DIALOOQ DIAGNOSTICS SYSTEM



The hardware and software solution:
Performing the calibration procedure with just one system



WOW! tested and coordinated DIALOOQ diagnostics system ensure a long service life and better customer service while securing your source of income.

- Integration of calibration information into the WOW! LOOQIT software
- Uniform procedure for all manufacturers
- Static and dynamic calibrations are possible
- Switch on and get started: everything is pre-installed and set up
- Quality and safety tests by WOW! vehicle experts
- Everything from a single source: from hardware and software solutions to training and service



Your hardware will never be 100% guaranteed – but our WOW! service philosophy is.
In the event of any problems with your diagnostic system, we will support you with our replacement and spare parts service.

For further information please visit
www.wow-portal.com/en/dialooq



E-MOBILITY ALL-ROUND CONCEPT FROM WOW! & WÜRTH*



In the field of e-mobility, we offer you together with a fully comprehensive “e-mobility concept” that includes everything you need to work on and with electric vehicles:

- Workshop equipment in the field of diagnostics, A/C service & calibration
- Expert hotline in the field of diagnostics, A/C service & calibration
- Accessories, consumables and spare parts supply
- Service technicians in the field
- Shut-off systems
- Safety tools
- Protective equipment
- Training and courses

**Diagnostics on electric and hybrid vehicles
249 different vehicle models from 33
manufacturers**** in the high-voltage sector are

included in the current software coverage – and the trend is rising with every WOW! LOOQIT software update

- Readout of service data
- Teaching of new batteries
- Function battery status
- OBFCM interface
- Hints for high voltage battery
- Verification form
- Battery status check

* Availability of products and services may vary per country. Get into contact with your Würth national subsidiary for information about the scope of services.** Software version 5.37.00 (April 2023).



SECURITY GATEWAY PORTAL



One interface for different security systems



With the Security Gateway Portal (SGP) we help you, especially independent and multi-brand workshops, to repair encrypted vehicles quickly and easily. Simple, fast, secure and all via a single interface in the WOW! diagnostic software LOOQIT.

The Security Gateway Portal (SGP) is available to customers with a valid diagnostic license from the software version 5.33.00.

The benefits of the Security Gateway Portals

Authentication – Simple and unique from the start

One-time authentication of only one responsible person as well as easy addition of further users.

User interface – Familiar but still new

Familiar and consistent user interface with familiar terms in the software LOOQIT.

Everyday work – Many manufacturers under one roof

For manufacturer-independent and multi-brand working on vehicles secured with security gateway systems.

For further information please visit
www.wow-portal.com/securitygateway_en



The live video support solution for everyone

We support as if we were directly on site

- Fast, professional and direct help
- Service team can “see” the problem
- Communication via live image transmission and video technology
- Joint problem solving through visual representations, signals and hints

Live and solution-oriented



- Communicate current repair cases quickly and easily
- Assistance from experts from the service team

Easy and fast



- Use is independent of device and operating system
- No additional Programs necessary
- Only requirement: good and stable internet connection

Direct and flexible



- Direct and innovative way to contact your customers or external employees
- Scope of application: Hotline, Sales, Aftersales, Technical Support

For further information please visit
www.wow-portal.com/en/insight



For further information please visit
www.wow-portal.com/acs_cars_en



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