

DAS 3000-1

DAS 3000 ADAS Recalibration System

The easiest setup with the most precise calibration

Precision measurement
and recalibration solution
for ADAS-equipped
vehicles of today and
the future.



Works with Bosch
ADS 625



BOSCH
Invented for life

What is ADAS?

Advanced Driver Assistance Systems

Advanced Driver Assistance Systems (ADAS) are vehicle technologies that provide safer driving experiences for the vehicle, driver, passenger, and the surrounding environment. ADAS technologies are paving the road to autonomous vehicles which can run full time with only maintenance stops. ADAS' primary goal is to reduce accidents and save lives.

ADAS Technologies are commonly referred to in levels of automation

Level 0 No automation	Level 1 Driver assistance	Level 2 Partial automation	Level 3 Conditional automation	Level 4 High automation	Level 5 Full automation
Full-time driver performance is executed by the human driver of all aspects of the dynamic driving task, even when enhanced by warning or intervention systems	Driving mode-specific execution by a driver assistance system of either steering or acceleration and deceleration, using information about the driving environment, with the expectation that the human driver performs all remaining aspects of the dynamic driving task	Driving mode-specific execution by a driver assistance system of both steering and acceleration or deceleration using information about the driving environment and with the expectation that the human driver performs all remaining aspects of the dynamic driving task	Driving mode-specific performance by an automated driving system of all aspects of the dynamic driving task, with the expectation that the human driver will respond appropriately to request to intervene	Driving mode-specific performance by an automated driving system of all aspects of the dynamic driving task, even if a human driver does not respond appropriately to a request to intervene	Full-time performance by an automated driving system of all aspects of the dynamic driving task, under all roadway and environmental conditions that can be managed by a human driver

There are two main types of ADAS calibration:

Static and Dynamic. While most vehicles will require one or the other, some vehicles may require both. Here is a quick breakdown of the differences between Dynamic and Static calibrations:

Dynamic Calibration

- Pre-determined service drive of 5 to 30 miles at set speed intervals
- Initiated through a diagnostic scan tool
- In some cases, may require a pre-alignment or static calibration before the dynamic calibration process
- Difficult during inclement weather and poses a liability for shops sending technicians to drive customer vehicles outside of the shop environment.

Static Calibration

- Placement of targets or radar reflectors at predetermined locations in a static shop environment
- Initiated through a diagnostic scan tool
- Requires fixture and targets in addition to scan tool

Importance of Accuracy and Precision



Precise recalibration is critical

Through our engineering expertise and extensive testing, gain confidence in precise measurements and trust that your customers' vehicles are recalibrated within the tightest tolerances to the strictest standards, correctly the first time.

Common ADAS functions found in today's vehicles

Surround View Camera

Automatic emergency braking

Adaptive cruise control

Backup camera

Blind spot warning

Driving control assistance

- Adaptive cruise control
- Active driving assistance
- Lane keeping assistance

Collision intervention

- Automatic emergency braking
- Automatic emergency steering
- Rear automatic emergency braking

Collision warnings

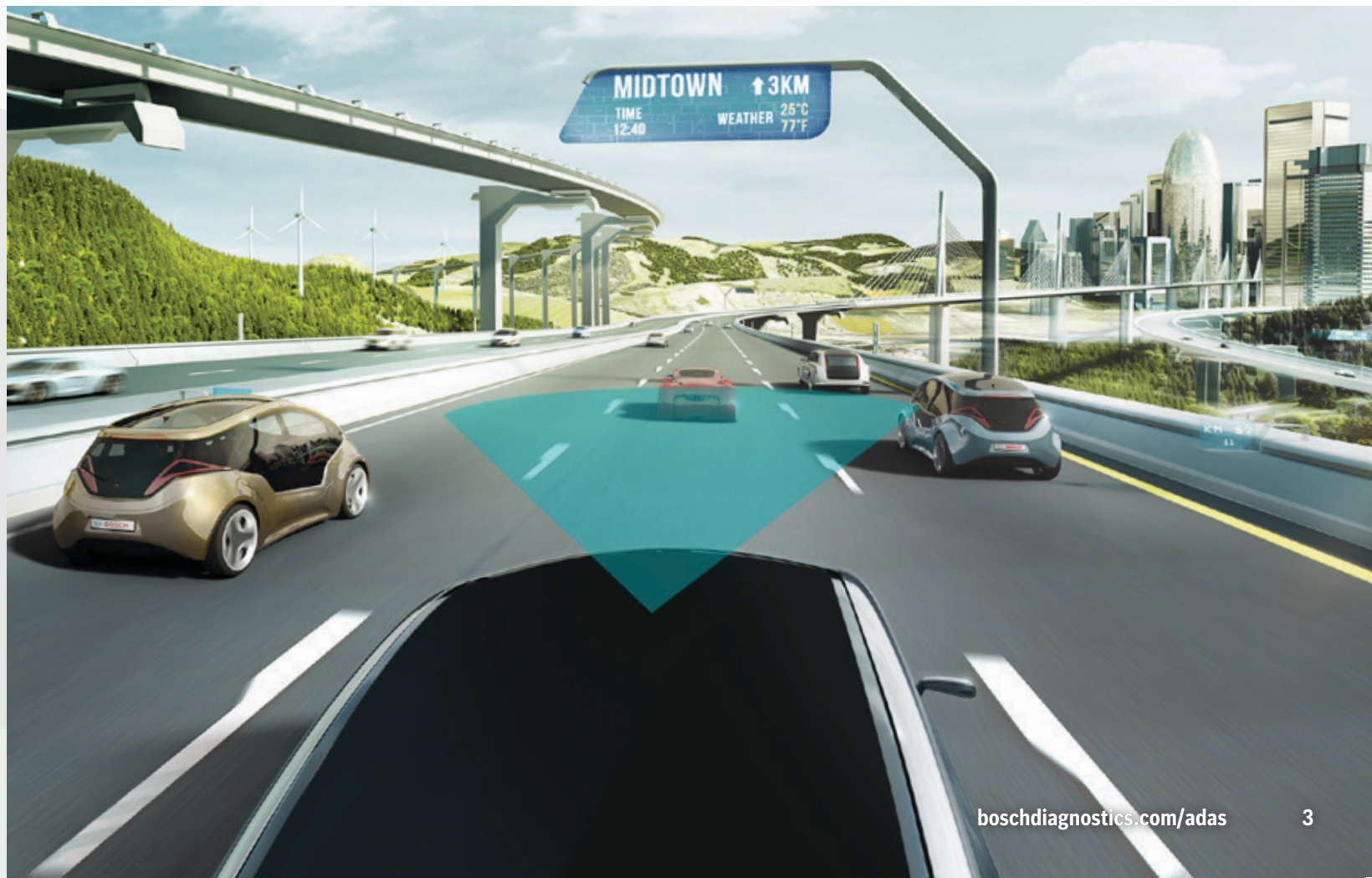
- Blind spot warning
- Forward collision warning
- Lane departure warning
- Parking obstruction warning
- Rear cross traffic warning

Parking assistance

- Active parking assistance
- Remote parking assistance

Other driver assistance systems

- Automatic high beams
- Backup camera
- Driver monitoring
- Heads-up display
- Night vision
- Surround view camera



The superior ADAS workflow, only from Bosch

OE Sensor Development

Co-developing the next generation of vehicle sensors with major OEMs means your equipment is ready for the vehicles of today and of the future.

World's Largest Automotive Supplier

As the largest supplier of sensors, Bosch knows what it takes to accurately calibrate ADAS systems. Bosch is partnering with many of the largest OEMs to develop the next generation of cameras, radars and sensors.

Recalibration Experience

Bosch has long been developing recalibration solutions with over 1 million calibrations completed to date.

Invented for Life

We want our products to spark enthusiasm, improve quality of life, and help conserve natural resources.

Simplified Set up Process

Commonized OE procedures to simplify set-up and calibration processes

Designed for the Future

Not just designed for today's ADAS systems. Bosch is already co-developing the next generation of ADAS sensors and the DAS 3000 has been designed with these future technologies in mind

Speed and Efficiency

Saves shops time and money by getting customer vehicles calibrated faster and with the confidence that it's done right

Precision and Confidence

From the precision digital measurements to the intuitive user-interface, the DAS 3000 is designed to take the ambiguity out of the calibration

Integrated Target Storage

Allows technicians to stow their camera targets while allowing immediate access for the fastest calibration set up while keeping targets clean and serviceable



The tools you need to get the job done right
and make your shop money

Leverage the guided interactive calibration for the most precise and efficient set-up

Step 1



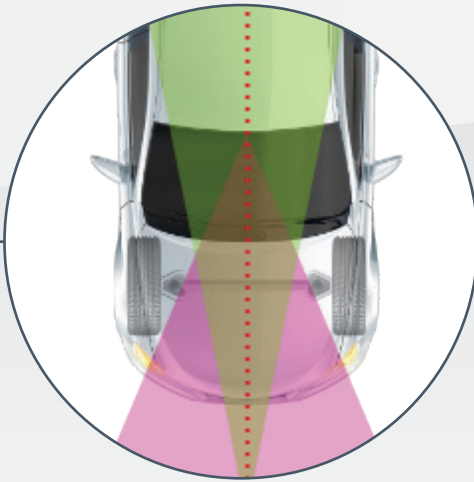
Plug in VCI and Auto ID

Step 2



Complete pre-scan
diagnostics report

Step 3



Select ADAS system to
calibrate

Step 4



Identify required calibration
targets and components

Step 8



Complete post-scan
diagnostics report

Step 7



Confirm and calibrate!

Step 6



Place targets

Step 5



Position the fixture

Primary components on DAS 3000



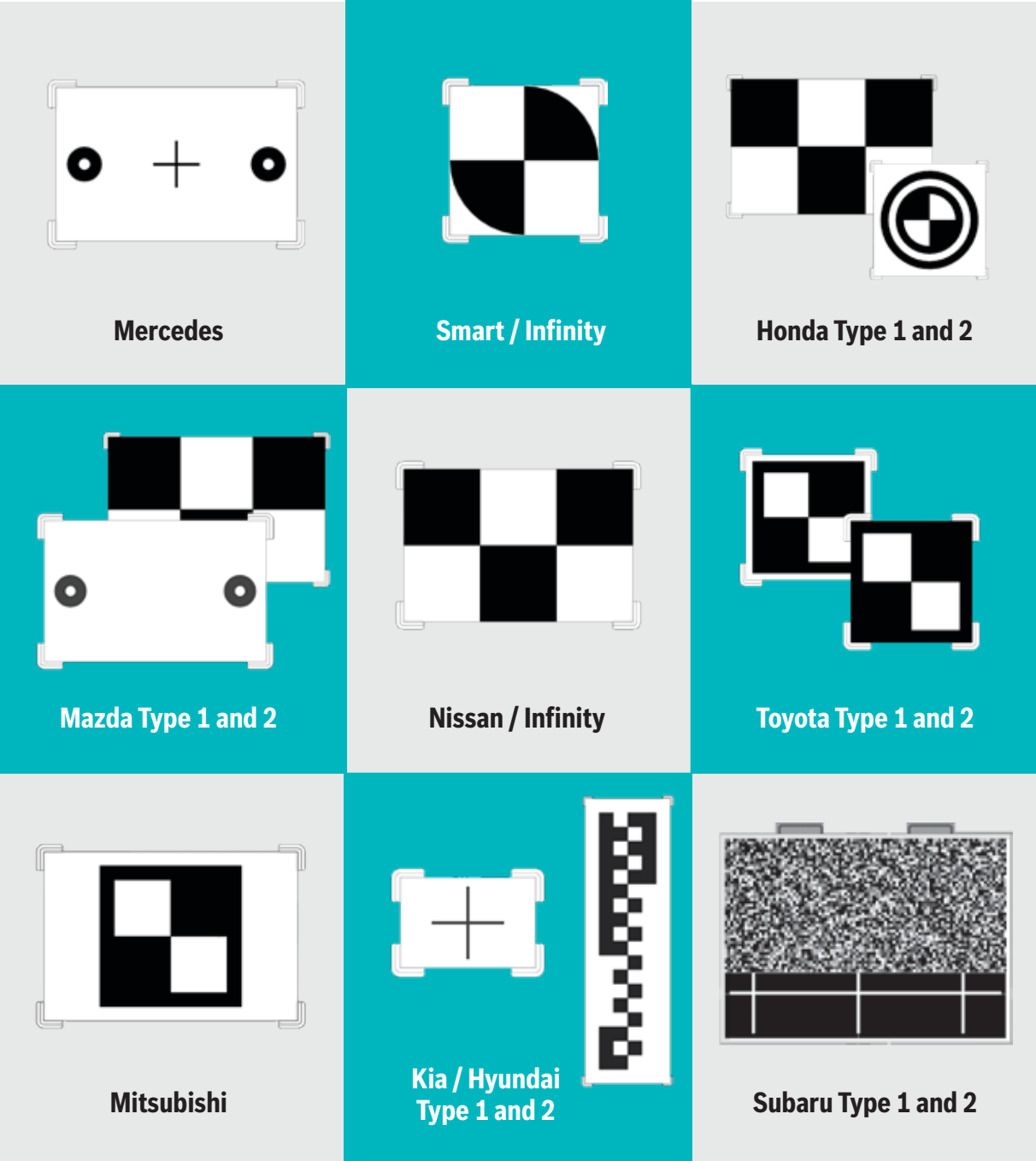
- A. Fixture
- B. Magnetic bracket
- C. Magnetic camera target crossbar
- D. Front distance marker



- E. Vision Positioning Camera
- F. Wheel hub marker
- G. Integrated target storage
- H. Bumper kissing plate
- I. Magnetic camera target crossbar (stowed)

Target Boards

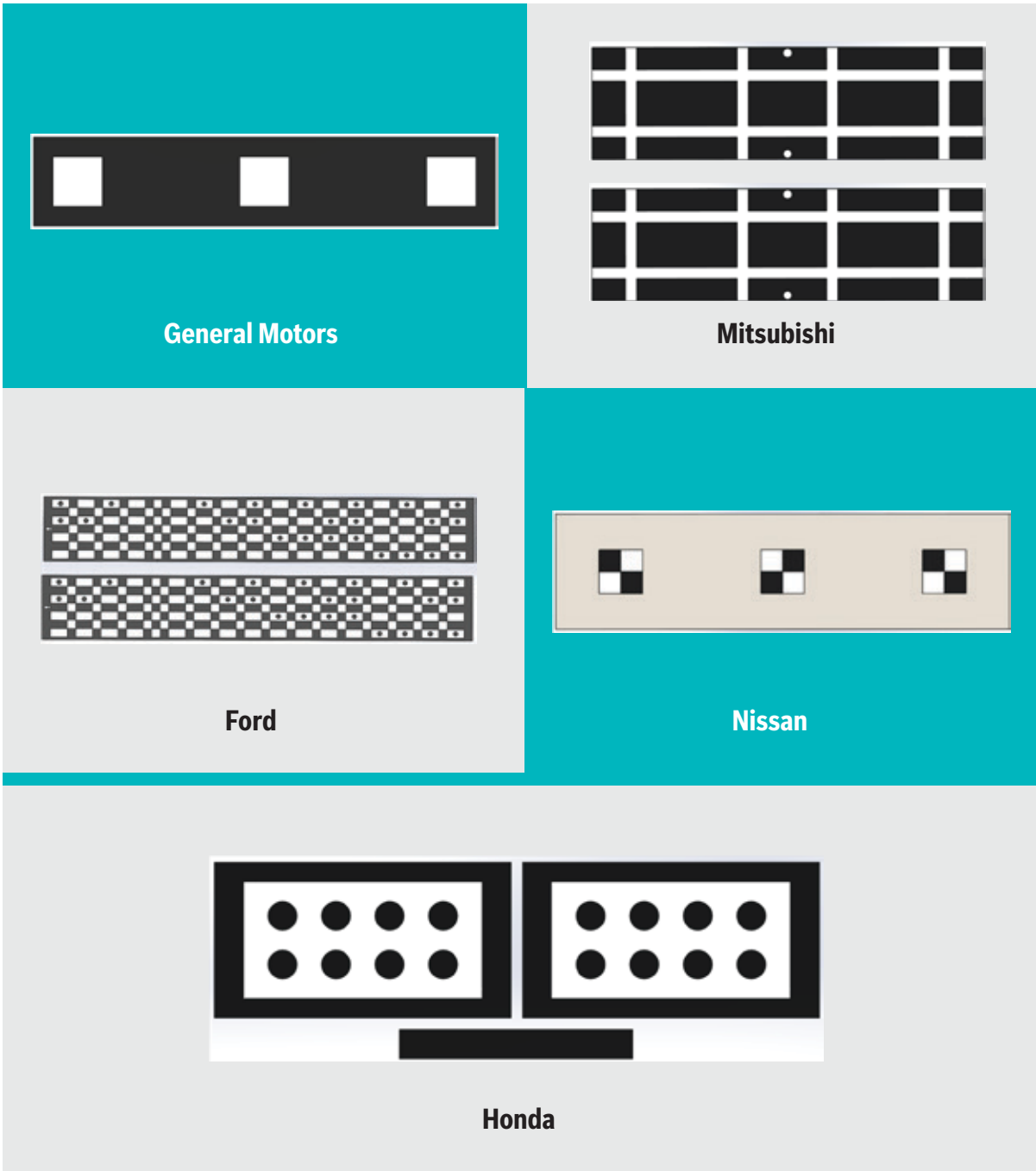
The DAS 3000 kit includes 13 camera target boards and 1 Dual Purpose Camera and Radar board.



Targets are not to scale.

Floor Mat Targets

The surround view and backup camera floor mats are ruggedized for a shop environment. They're made of a highly durable vinyl and have a UV protected coating to reduce glare and prevent fading.



Targets are not to scale.

SCT 815

The SCT 815 Prismatic Radar Reflector is an integral part of the calibration process for Kia, Hyundai, Mazda, Toyota and Honda vehicles

- ▶ Dual lasers for set-up: Red line laser for distance and green line laser for alignment
- ▶ Designed with fiberglass material to avoid false or improper radar calibration
- ▶ Carrier engineered to connect future targets and alignment technologies



ADAS Recalibrations on the ADS 625

The ADS 625 scan tool is integrated into the DAS 3000 system

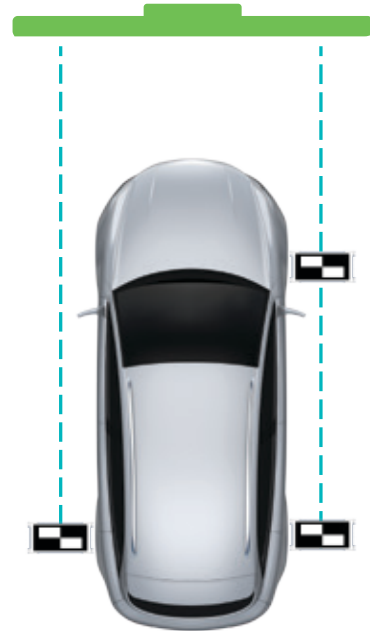
The ADAS guided instruction module walks users through the entire recalibration process including fixture placement, target selections and sensor recalibration.

Offering pre- and post-scan reporting options as well as a full complement of diagnostic coverage. The ADS 625 is Bosch's flagship scan tool and brings the power of ADAS recalibration to your shop.



Commonized Set-ups

Commonized recalibration procedures are built from the unique requirements of OEM makes and models – reducing to a minimum of set-up variations and simplifying ADAS recalibrations.



**Front Facing Radar (DAS 3000)
Front Facing Camera (DAS 3000)**



Front Facing Radar (SCT 815)



Surround View Calibration



Dynamic Calibration

Training

Bosch is committed to not only providing the best recalibration equipment, but also helping shops use that equipment to its fullest. The DAS 3000-1 ADAS Recalibration Master Kit includes access to both online video tutorials as well as virtual training to help you get started using your ADAS recalibration system.

Ask your local Bosch Representative about the training options available for the DAS 3000.

Bosch ADAS Setup, Assembly and Calibration Videos

Bosch ADAS: Unpacking, Assembling and Initializing the Bosch DAS 3000

<https://youtu.be/hXusyGHNyUk>

Bosch ADAS: Unpacking and Assembling the Bosch SCT 815

<https://youtu.be/cw1x6Rur7sY>

Bosch ADAS: Recalibrate the Front Facing Camera on Audi with Bosch DAS 3000

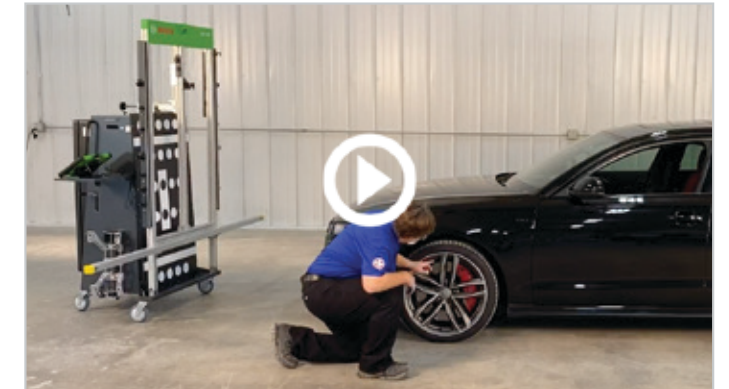
<https://youtu.be/yss1PrN5Jpw>

Bosch ADAS: Recalibrate the Front Facing Camera on Toyota with the Bosch DAS 3000

https://youtu.be/Jq9wpn_KPVU

Bosch ADAS: Recalibrate the Radar on Audi with Bosch DAS 3000

<https://youtu.be/m849PZ32Lwg>



Tech Support

12 months of technical support included

The DAS 3000 has been designed with the technician in mind and is incredibly easy to use. However, we know that even the best of us get stumped once in a while. That is why the DAS 3000 includes a full 12 months of phone support from our professionally-trained ADAS technical support team. They can be reached via our tech support line.

Our dedicated ADAS technical support team can help with both hardware and software issues as well as questions related to the calibration process.

Tel: 1-888-812-3275

techsupport.diagnostics@us.bosch.com

Calibrate faster. Generate more revenue. Grow your business. Repeat.

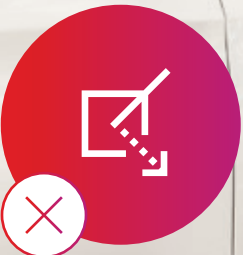
The superior ADAS workflow can guide you from setup through calibration in *half the time*.



No tape measures



No plumb bobs

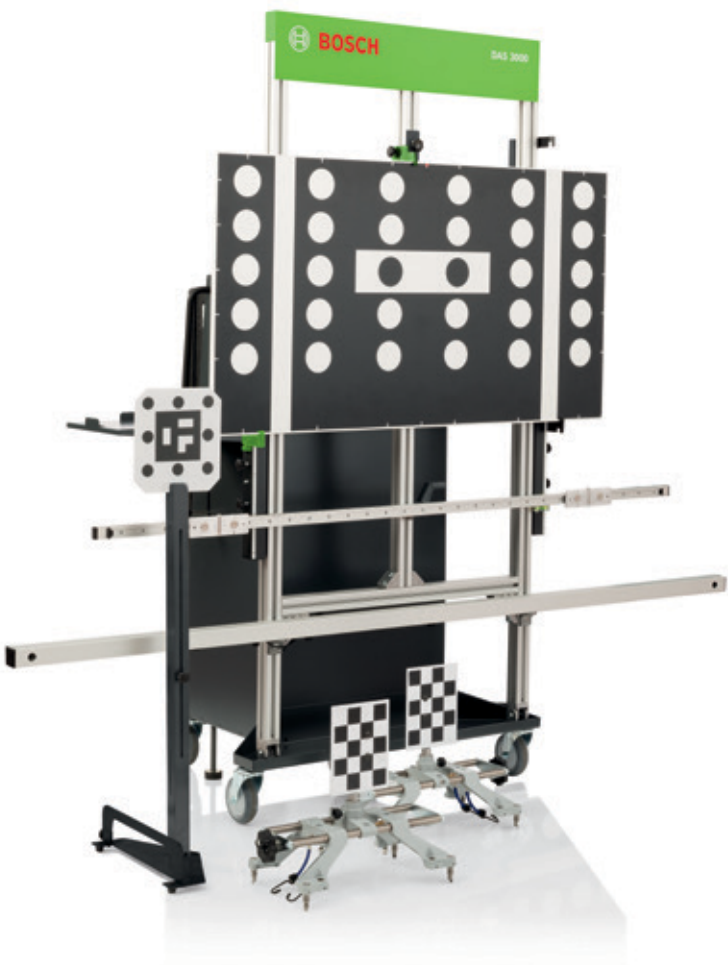


No mirrors

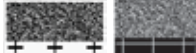


Uncover the truth about the superior solution at boschdiagnostics.com/adas

DAS 3000-1 Includes



Primary Components	
Fixture	
Wheel Clamp Markers	
SCT 815 Prismatic Radar Reflector	
Distance Marker	
ADS 625 Scan Tool with Guided Tour Platform and Bosch ADAS Positioning (BAP) Software	

Target Boards	
VW/Audi Combo Camera/Radar Target Board	
Subaru 2.1 & 3.1 Target Board	
Universal XL Target Board	
Honda #1 Target (set of 2)	
Toyota #1 Target	
Daimler/Infiniti #2 Target	
Mazda #1 Target	
Honda #3 Target	
Toyota/Lexus #3 Target	
Hyundai/Kia #3 Target	
Nissan #2 Target (set of 2)	
Universal/Infiniti #1 Target (set of 2)	
Mitsubishi #1 (set of 2)	

Floor Mats	
GM	
Ford	
Honda	
Mitsubishi	
Nissan	

Integrated Target Storage

Stow your camera targets in a clean and serviceable way, allowing immediate access for the fastest calibration set-up.



Driven by efficiency

Bosch technologies are used worldwide in almost all vehicles. People, and assuring their mobility, is what we are focused on.

Therefore, we have dedicated the last 125 years of pioneering spirit and expertise in research and manufacturing to achieving this.

We continue to work on our unique combination of solutions for spare parts, diagnostic devices, workshop equipment and services.

- ▶ Solutions for efficient vehicle repairs
- ▶ Innovative workshop equipment and software
- ▶ The world's most comprehensive range of new and replacement parts
- ▶ Large network of wholesale customers, for quick and reliable parts supply
- ▶ Competent hotline support
- ▶ Comprehensive educational and training offers
- ▶ Targeted sales and marketing support

