



# BAD WHEEL ALIGNMENT WILL RUIN YOUR CUSTOMER'S ECONOMY!

A properly aligned vehicle can reduce fuel consumption costs by up to 5%. Bad wheel alignment also increases tire wear. A wheel alignment diagnosis gives you the opportunity to plan ahead. With the help of the wheel angle measurements from a diagnosis, necessary adjustments can be made and you can avoid unnecessarily high fuel consumption and tire wear costs.

#### **CALCULATION EXAMPLE 1**

Fuel cost reduction: 3% Mileage/year: 200 000 km Fuel price: 1.1 EUR/litre

Fuel consumption: 4 litres/10 km

Total cost reduction/year:

0.03\*200 000\*1.1\*0.4 = 2 640 EUR

#### **CALCULATION EXAMPLE 2**

Premature tire change, 2 tires/year

Tire cost: 350 EUR/tire Cost reduction/year: 350\*2 = 700 FUR



Estimated
fuel/tire cost
reduction per year:
3 340 EUR\*





## RENAULT WHEEL ALIGNMENT

This compact wheel alignment system enables truck and bus workshops, as well as tire service centers, to offer wheel alignment services quickly and accurately.

With our patented camera technology with the chassis center line of the vehicle as reference, the following wheel angles can be measured:

- Toe, steering box position, camber, out of square, parallelism and axle offset
- Caster, KPI, Toe Out On Turns and max turn

Enabled by the unique rolling method, toe and camber measurements may be taken while the vehicle is in driving position. No lifting of the axles with run-out compensation is required, alternatively the system can also be operated with standard run-out procedure.

Wireless technology is used for transmitting data between measuring units and the computer. The computer software guides the user through the measuring process and prints out measurement reports of values, before and after alignment.



# HEAVY VEHICLE ALIGNMENT WITH CAMERA TECHNOLOGY

#### **Technical information**

Description	Specification
Measuring range	
Toe	±40 mm/m
Camber	±6°
Caster	±20°
KPI	±20°
Max. turn	65°
Measuring accuracy	
Toe	±0.2 mm/m (for each camera)
Camber	±3 min (for each camera)
Operational time	14 h
Charging time	3 h
Computer requirements	See latest updated information on www.josam.se



# MEASURING CASTER, KPI AND TURN ANGLES

This measurement is based on a single continuous movement of the wheels, from a straight ahead position to maximum left, via maximum right and back to the starting position.

During this procedure the built-in gyroscope and inclinometer are constantly transmitting data to the computer, which calculates the caster, KPI and turn angles in different wheel positions. The entire process can be carried out in a matter of minutes.

#### STATIC LPOS & FLS CALIBRATION

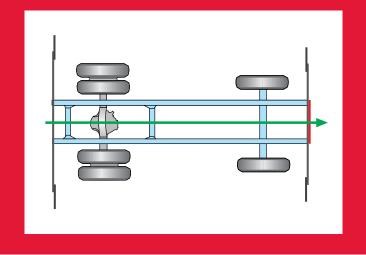
To calibrate the ADAS (LPOS & FLS) without having to drive the vehicle has many advantages:

- · Only one operator is required.
- Safer, as the truck remains in the workshop.
- Avoiding traffic jams and bad road conditions.
- Supports OEM requirements on correct wheel alignment before calibration.
- Simple positioning for calibrating with Tech Tool.

# MEASUREMENT PRINCIPLE AND SCALABILITY

The Volvo Group wheel alignment system uses the centerline principle to determine the position of axles and individual wheels in relation to the centerline of the vehicle.

The system is designed to measure wheel angles on commercial vehicles such as trucks, trailers, buses and light commercial vehicles.



## **VOLVO BASIC K/72250**



### Basic kit for camera electronic wheel alignment (trucks)

Item #	Qty #	Ref nr	Name
1	1	VOLVO BASIC K	Basic set Cam-aligner
1			Basic set Cam-aligner
			PC-hardware is not included. For the latest PC-requirements please contact your representative.

#### OPTIONS

### CA TRAILER K/72104



#### Additional kit for trailer and semi-trailer

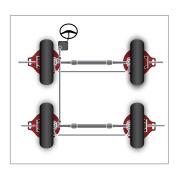
Item #	Qty#	Ref nr	Name		
1	1	CA TRAILER K	Additional kit for trailer and semi-trailer		

#### **CA TWIN K/72102**



#### Additional kit for twin steer

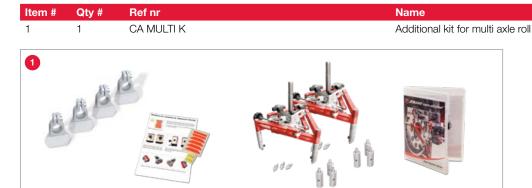


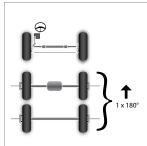


#### **ALTERNATIVE 2**

#### **CA MULTI K/72108**

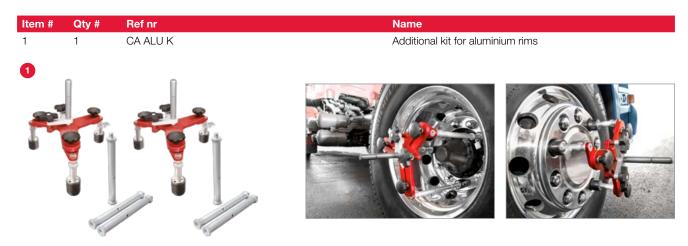
Additional kit for multi axle roll





#### **CA ALU K/72103**

#### Additional kit for aluminium rims



## **CA ANGLE K A/75661**

#### Additional inclinometer kit



caster and KPI. By use of the inclinometer kit the Cam-aligner system will automatically compensate for all these effects.

#### Additional front adapters

Make	JT734 15876	AM1622 10360	AM1854 15167	JT733 15875	JT73305 16355	AM1780 10439	AM1862 15767
		<b>1</b>		3	1		
Volvo FE	(1 pc*)	2 pcs	-	_	_	_	-
Volvo FH (To 2011)	_	_	_	_	_	2 pcs	_
Volvo FH (From 2012)	_	_	2 pcs	_	_	-	-
Volvo FL	_	_	_	1 pc	(1 pc*)	_	_
Volvo FM (To 2011)	_	_	_	_	_	2 pcs	_
Volvo FM (From 2012)	_	_	2 pcs	_	_	_	_
Volvo FMX	_	_	2 pcs	_	_	_	_
Renault D narrow	1 pc	2 pcs	_	_	_	_	_
Renault D wide/C	_	_	_	1 pc	1 pc	_	_
Renault K	_	_	_	1 pc	_	_	_
Renault Premium Euro 6	_	_	_	_	-	_	2 pcs
Renault T & T-HIGH	_	_	2 pcs	_	_	_	_

<sup>\*</sup> Only needed when thread is missing





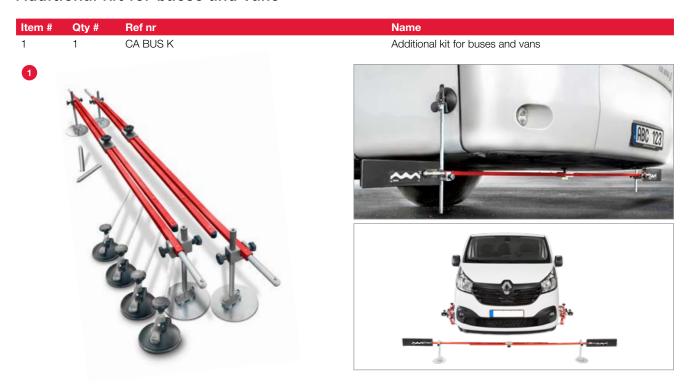




### **CA BUS K/72244**

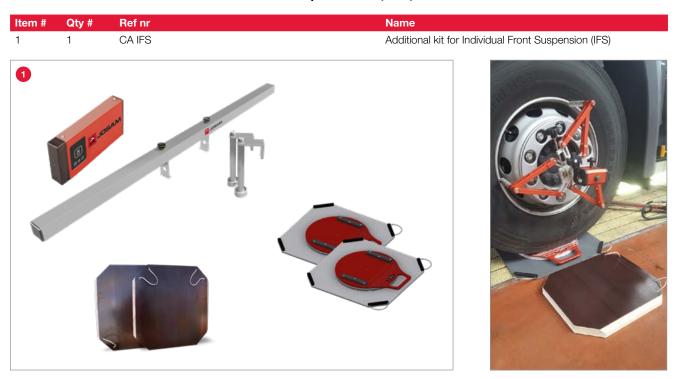


#### Additional kit for buses and vans



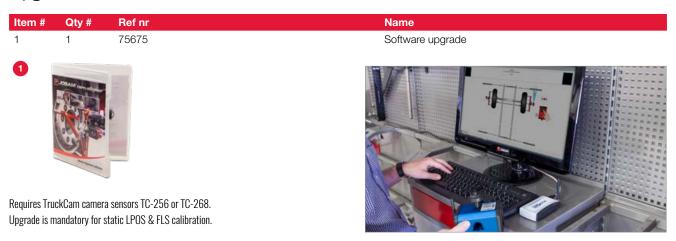
## **CA IFS/72245**

Additional kit for Individual Front Suspension (IFS)



#### 75675

#### Upgrade your TruckCam system with new JOSAM software



#### AM 1874 K/16345

#### Static LPOS & FLS calibration for camera based wheel alignment system

Item #	Qty #	Ref nr		Name		
1	1	AM1874		Stand with LPOS & FLS targets		
2	1	CA1109	CA1109 Software add-on for ACC/LDWS			
	1		2	Administration  two didar  Cultur consequences	Vehicle information  VM LPK118 Uses 5 model  VRaye 20324344 Div 2010-10-07 Enverore Condumentate	0

Radar & camera calibration requires the Volvo Group Wheel Alignment system and JOSAM cam-aligner software (version 1.7.4 or higher).

The device also works with the JOSAM i-track II kits 16499 and 16651.

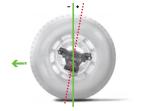


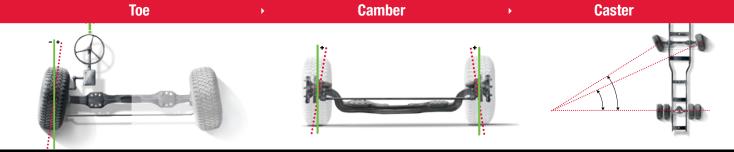


# THE RENAULT WHEEL ALIGNMENT SYSTEMS CAN MEASURE THESE WHEEL ANGLES:







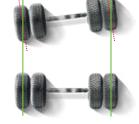


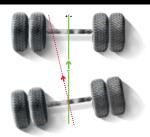
Steering gear middle position

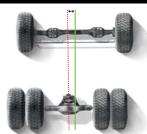
KPI

Toe-out on turn









**Maximum turn** 

**Parallelism** 

**Out of square** 

**Offset** 

JOSAM IS REPRESENTED ALL OVER THE WORLD. TO FIND YOUR NEAREST DISTRIBUTOR, PLEASE VISIT

WWW.A-E-S-UK.CO.UK



MANUFACTURER:



AES UK - West Yorkshire, WF8 2ST Tel: 01977 600 688 • E-mail: info@aesuk.com

Internet: a-e-s-uk.co.uk

JOSAM® (2019) is a trademark of Snap-on Incorporated. All rights reserved.