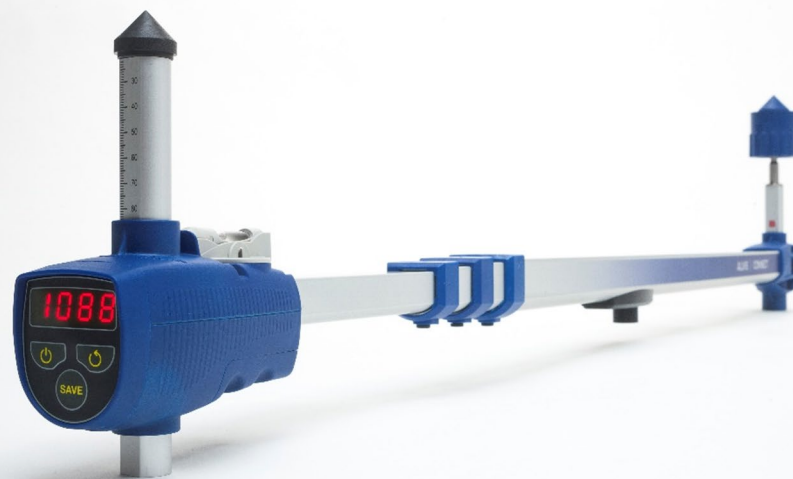


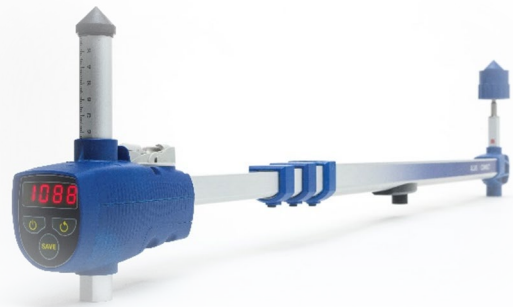


Allvis Connect measurement system

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Introduction



Allvis Connect measurement system

Allvis Connect is an electronic measurement system that measures and checks the dimensional accuracy of vehicle bodies.

The measurement system mainly consists of the following parts:

- Electronic measuring arm
- Attachments and measuring tips
- Access to database datasheets

This instruction contains a description of the equipment as well as instructions for its use, operation and care.

Important!

Read the instructions to get to know the correct operation of the Allvis Connect measurement system and measurement data.

Photos and drawings in the instruction are purely illustrative and do not necessarily show the design of the equipment on the market at any given time.

Maintenance

Allvis Connect is a measuring instrument and should therefore be handled with care.

After each use, wipe the measuring arm, measuring tubes, fasteners, measuring tips with a dry cloth. Pay extra attention to the sliding parts of the measuring arm.

NB! Use only dry cloth without detergents!

Do not use any lubricant like oil.

Store the parts of the measuring system in the storage box when not in use.

Control/calibration is recommended 1 time/year, or when there is a suspicion that the measurement system has been damaged. In case of suspicion of errors, the measurement system should be checked by your distributor.

When scrapping or dismantling components of the measuring system, plastics, steel, aluminum and electronic components shall be separated for recycling.

Responsibility

Measurement data in the Allvis Connect database are measurement values collected through the measurement of cars and bodies as well as information from car manufacturers. The methods used in collecting these metrics are normally considered safe.

The measurements on the data sheets should be seen as guideline values, as measurements of vehicles of the same model may vary, depending on manufacturing tolerances, but also on design changes made by the manufacturer later on.

Allvis Connect and JNE AB and other directly or indirectly involved parties cannot be held responsible for any damage or loss arising from the absence or omission of the information contained in the Allvis Connect database.

Warranty

Read the instruction before use to get to know the operation of the Allvis Connect measurement system well.

Warranty is offered one year from the date of delivery and relates to material defects and requires normal care and care as below:

- Proper handling and reasonable and necessary maintenance have taken place in accordance with what is stated in this manual.
- Allvis Connect has not been modified or rebuilt without the approval of JNE AB.
- Allvis Connect genuine parts are used in case of repair.

In the event of a complaint, contact your distributor for evaluation and control.

Allvis Connect measurement tool

The measuring tool consists of mainly 4 telescoping aluminum profiles.

The front end holds the display and bracket for height pipes, the rear end of the measuring tool there is a holder for the level pipes A-F.

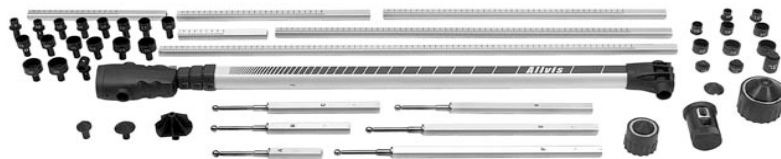
The level pipes are mounted in place by pressing them until the click position is reached. The ball of the level tube is attached to the magnetic mount, through a snap-on function.

At the front end, the measuring tool consists of a bracket for height measuring tubes. In the height pipe, the various measuring adapters are mounted.

There is also a swivel and adjustable level, which is used to identify the car's tilt and date plane.

At the front of the measuring tool is the control panel and number display. From here, the choices of measurement methods that are desired by selection are made on the buttons.

The device is powered by two AA batteries.



Display operation

Allvis Connect arm Start: Press  	
Select: Display or Bluetooth Press  Activate selection   	
DISPLAY MODE Selection of measuring range: 900/400 Press  >2 sec 	BLUETOOTH MODE Selection of measuring range: 900/400 Press  >2 sec 
Mode 900/400 Save value Press  to save/release value	Mode 900/400 Save value Press  to send value
Comparative P2P Press  <2 sec	Undo sent value Step back in the measurement situation 1 ← 2 ← 3 ← 4 (measure points on PC) Press  >3 sec
Save ± value Press  to save/release display	
Off >2 sec  or auto shutdown	Off >2 sec  or auto shutdown

Save function

The display turns itself off after 2 minutes but turns on again after the slightest movement in the measuring tool.

Shutdown function

The measuring tool turns off the display as above, as well as turns off all electronics 90 minutes after the last activity or movement.

The measuring tool can also be turned off manually with the button  which is then held for more than 2 seconds.

Important

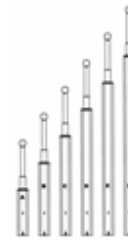
Should the measuring tool for some reason lose its position and not show 900 mm in its inner position, the measuring tool must be turned off and started again according to the above procedure.

Included parts

Datum rod

6 different long datum rods are included, A-F.

Strive to use a short tube to get as safe measurement results as possible, but long enough so that the measuring tool can be freely operated under the vehicle.



Magnetic attachment diameter 35 and 60

The two included magnetic attachments are designed to suit most existing in use car brands on the market.

The small attachment is used where a hole $< \varnothing 35$ mm selected as the zero point for the current car/data sheet.

The larger attachment to holes from $\varnothing 35$ to $\varnothing 60$.



Height measurement rod

6 height measuring rods with printed scales in lengths 100 - 840 mm.

Choose the rod that fits the measuring point you selected, a long rod for a high measuring point and a shorter rod for a low measuring point.

The height measuring rod is mounted by sliding it through the front bracket of the measuring tool with the measuring scale directed at the **RELEASE** mark. Locking is then done by turning the rod clockwise, so the scale ends up against the **mark LOCK**.



Level

On the front attachment of the measuring tool there is an adjustable level. This is rotated between two positions, an adjustable position and a locked position. In adjustable modes, the steering wheel is turned and the level is adjusted to scale. (The air bubble should then be in the center of the level.)



Thanks to the fact that the level is adjustable, and together with the height data that found on the datasheet, it is possible to create a date plane for the measuring tool under the body.

Measuring sockets

- 3 measuring tips: Ø25, Ø35 och Ø60 mm
- 16 sockets in sizes from 8 to 28 mm
- 1 90° holder

The data sheets show which socket/tip shall be used for each measuring point.

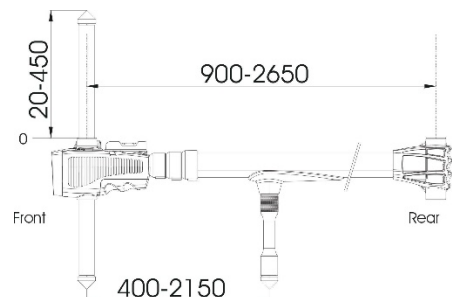


The tips are mounted at the end of the height rods by them being pushed in.

Short measurements

On the underside of the meter arm there is an attachment for the tip holder for short dimensions.

Attach the holder and choose a suitable measuring socket/tip. Measurement can now be done from 400 – 2150mm. The measurement value can also be changed from normal position (900-2650) to 400-2150 mm on the display.



Battery replacement

Allvis Connect is powered by 2 batteries of model AA.

When the device's display flashes constantly, it indicates uncertain transmission of readings due to low battery voltage.
Change batteries.



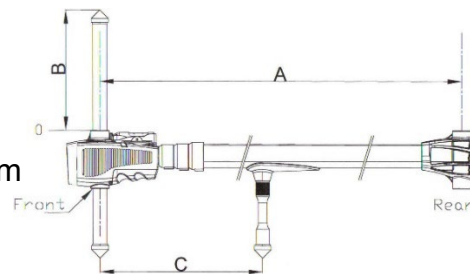
The batteries are changed by removing the cover, the new batteries are then mounted as shown in the bottom of the respective battery compartment.

Technical specification

Measurement ranges

The different measuring ranges of the measuring tool in height and length:

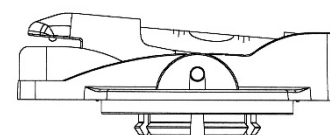
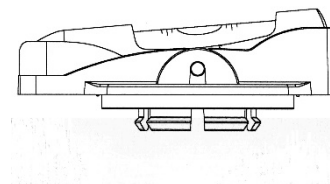
- Measuring range for length (distance A) 900–2650 mm
- Measuring range for height (distance B) 20–900 mm
- Measuring range short (distance C) 400–2150 mm



Adjust level

Adjustment possibilities for level.
(That is, the inclination of the car forward or backward).

Max 5° in each direction.

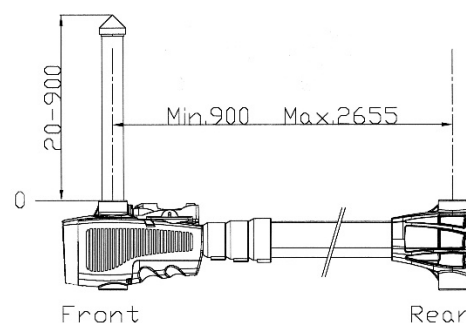


The accuracy of the level

The accuracy of the level varies depending on whether the meter arm is in its shortest or longest position.

The table below shows how much the height position of the measuring head changed when the air bubble inside the glass tube moves a mark.

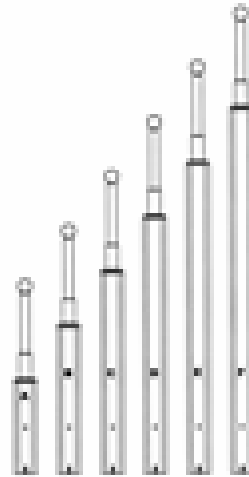
Extension in mm	Change in height in mm
900	ca 0,5
1800	ca 1,0
2655	ca 1,5



Differences in height of the datum rods
when the value of datum rod A = 0 mm

Datum rod:

- A = 0 mm
- B = +50 mm
- C = +100 mm
- D = +150 mm
- E = +200 mm
- F = +250 mm



General information about measurement data

The measurement data on the Allvis Connect data sheet are measurement values collected through the measurement of cars and bodies as well as information obtained from car manufacturers.

The methods used in collecting these metrics are normally considered safe.

The measurements on the data sheets should be seen as guide values, as the dimensions of the vehicles of the same model may vary, depending on manufacturing tolerances or previous repairs, but also on the manufacturer's later performed design changes on the vehicle.

If you notice significant deviations from the data sheet or are uncertain about the accuracy of the data sheet compared to the actual measurements you measured on the car, then:

- First, make sure that the correct make and model has been selected.
- That the measurement was carried out between the correct measurement points.
- That the correct datum rods are used.
- That the correct height calibration has been performed and to the correct measurement point.
- If in doubt, please contact your distributor.

Measurement

When measuring with ALLVIS Connect measurement data and measuring tools, it is important during the measurement operation to have a clear picture of the vehicle's damage.

This gives the advantage of more easily choosing measurement points that work best for the current vehicle.

It is recommended to always be observant of the measurement values displayed by the data sheet or measuring tool and, at the slightest suspicion of inaccuracies, to check the measurement and calibration points performed.

The same applies, of course, to the choice of vehicles in the database and also to the function of the measuring tool.

If there is a suspicion that the inaccuracy on the datasheet persists, please contact your local ALLVIS Connect distributor.

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Safe repair equipment