VOLVO CAR
SERVICE AND PARTS BUSINESS

Service Product Journal

TITLE:

Digital Head Light Instrument for L.E.D., Halogen, Xenon vehicles

REF NO:	ISSUING DEPARTMENT:	REFERENCE BULLETINS:
32242.3.0		
CATEGORY:	**SUBCATEGORY:**	**CAR MARKET:**
Information Products	Wiring Diagrams	United States and Canada

Service Personnel: Read and initial	SERVICE MANAGER	SERVICE WRITER	WARRANTY ADMINISTRATOR	ISSUE DATE:	STATUS DATE:
				2019-05-08	2019-05-13
				Page 1 of 3	

"Right first time in Time"

Attachment

File Name	File Size
A1.pdf	0.1125 MB

Background:

To check and adjust head lights on vehicles with LED-light.

A light measurement/adjustment tool shall be equipped with:

- Camera on board, capable of measuring all headlamp variants.
- Headlamp variants to be measured: Halogen, Xenon and LED, regardless of optical solution (reflector or lens).
- Functions to be measured: Low beam, high beam, and fog light with an accuracy of at least +/-0,1 % on vertical deviation and at least +/- 0,4% on horizontal deviation.
- Beam Pattern: cover applicable market and legal requirement (symmetrical, asymmetrical, left/right hand driving)
- Optical box Laser pointer to ensure a correct position in front of the center of the beam.
- Laser visor to ensure the tool is positioned parallel to the vehicle for the working length.
- Height sensor (optional)
- *Slope sensor, for compensation of the floor inclination +/- 0,6° maximum slope of the recommended working area.

- Support for PC connectivity.
- Possibility to print out values.
- Equipment shall be approved according to SAE J599 and J600.
- Equipment shall provide a mean for compensating inclination of the floor where the vehicle is positioned.

*= Automatic floor level setting of the instrument.

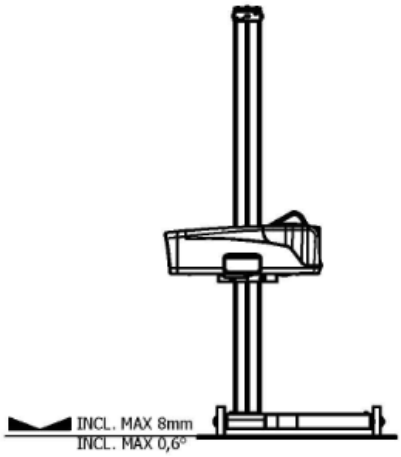
Requirements on the surface, which the vehicle stands during light measurement.

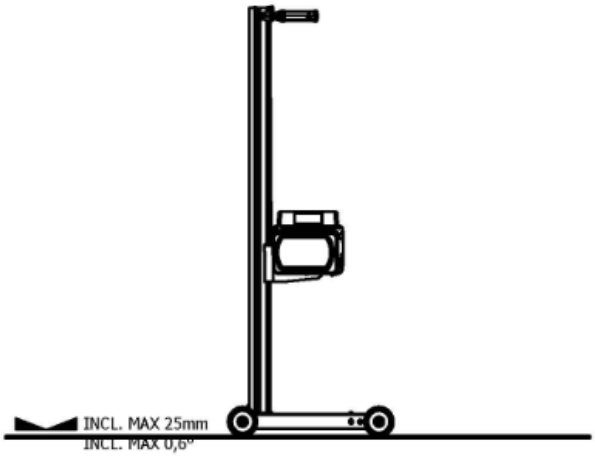
A1) With Automatic slope function= Area dedicated to the digital headlight equipment, see below graph/image showing maximum allowed floor inclination.

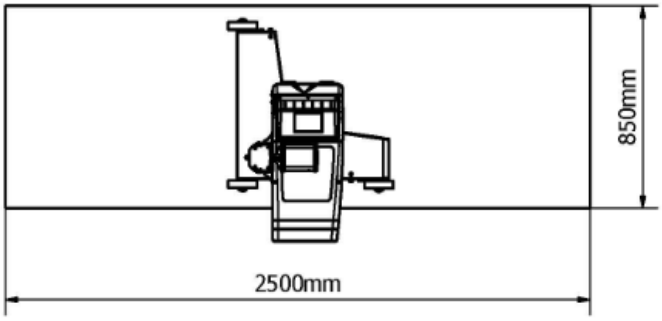
Recommendations

To fulfil the requirements on the floor inclination it is recommended to use a four post lift or four wheel alignment bay since these equipments already are accurately leveled and fulfills the inclination requirement.

To view SPJ attachment continue to next page. This SPJ has one attachment.


INCL. MAX 8mm
INCL. MAX 0,6°


INCL. MAX 25mm
INCL. MAX 0,6°


850mm
2500mm