

INSTRUCTIONS

For

AUDIO-CINE WALTER VOIGT AG

ACL-9

Same as Westar CALS-9

Red Light Laser Module

Prevost & Cinemeccanica



INTERNATIONAL CINEMA EQUIPMENT

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AUDIO-CINÉ WALTER VOIGT AG

PROJEKTIONS & TONTECHNIK

SAFETY PRECAUTION LDA

Visible Diode Laser Module Serie LDA 1012/VO

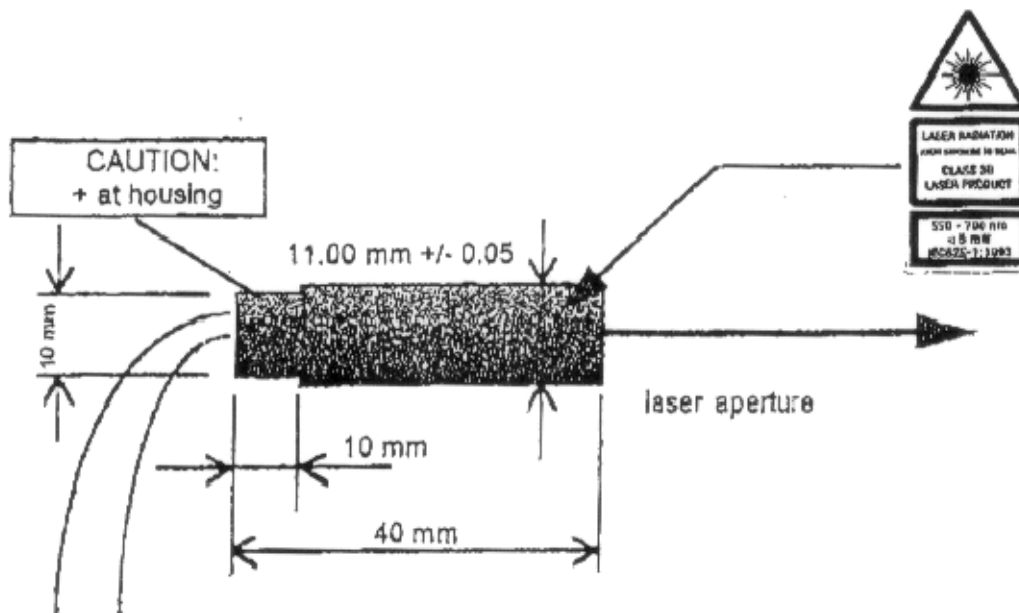
All diode laser modules are classified according to CDRH standards.
For further safety information regarding laser refer to:

CDRH and ANSI 136.1 standard for the safe use of lasers and IEC825-1:1993.

Since laser beam can be damaging to the eyes, DO NOT look into the laser aperture when the laser is in operation. The emission indicator shows when laser is on. Be aware that laser light can also be dangerous when reflected off a mirror-surface like watches, mirrors, plastics ect.

Please note the following laser classification:

LDA 1012/VO Output power = 1,5 mW = laser class 3B
Wave length 650 nm



plus = red cable
minus = black cable

Operating voltage: 4 to 6 Volt DC (regulated voltage of 5 Volt is recommended)
Operating current: < 80 mA
Polarity protected: yes
Warranty: 1 year

PLEASE NOTE:

A voltage spike can destroy the Z-diode 6,5 V at the DC input of the laser module.

This is caused by an instability in the power supply during the ignition time of the xenon bulb.

To make sure that the power supply does not drift while the xenon bulb is being ignited, measure the voltage stability with a digital multiple instrument or a scope at the output of the DC power supply before you connect the laser module.

HOW TO INSTALL THE ACL SERIES LASER:

Before installing the laser device make sure that all details regarding the stereo solar cell and pre-amplification are in a faultless condition. Check the cleanliness of the sound lens. If necessary, clean the front and back of the lens with acetone using cotton tip. The same can be done carefully with the stereo solar cell.

As a next step check the Dolby level with a CAT. 69T test loop.

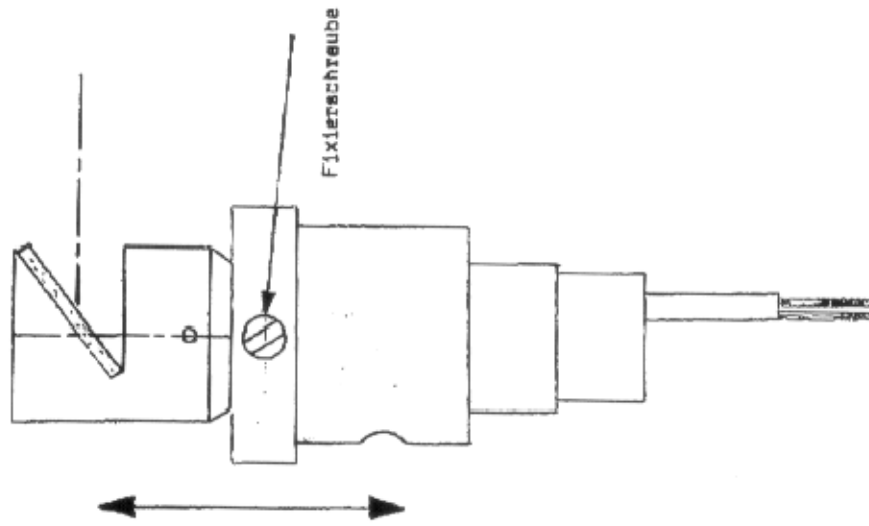
Switch off and remove the exciter lamp, remove the center connector and wire from the exciter lamp socket.

Take the laser device, lead the laser wire (red and black) through the center of the exciter lamp socket and press the laser device in the pins on the top of the exciter lamp socket.

Before you connect the laser with the power supply, check the correct voltage at the power supply output (5V DC regulated).

While you measure the voltage with a digital voltage meter ignite the xenon lamp to make sure that the voltage stays stable during the ignition. After you have secured a stable voltage of 5V DC, the laser can be wired with the power supply. As a last step follow the Dolby requirements of the Analog Optical Alignments.

MOVE UP AND DOWN AND TURN LEFT AND RIGHT
TO RECEIVE THE BEST RESULT



AUDIO CINE WALTER VOIGT AG
SWITZERLAND

Die richtige Einstellung ist dann erreicht, wenn der projizierte Tonspalt in maximal möglicher Helligkeit gleichmäßig ausgeleuchtet ist.

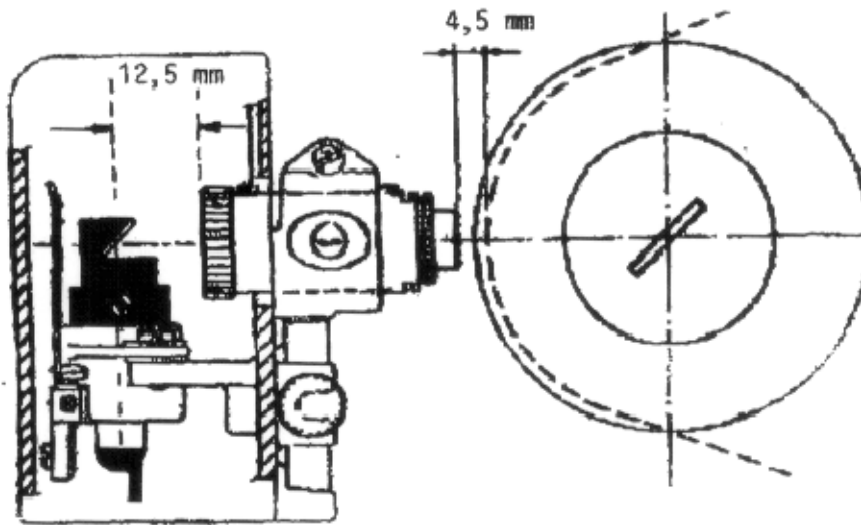
The best adjustment is made, if you reached optimum illumination quantity combined with best possible illumination uniformity.

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ACL-9 alignment-procedure

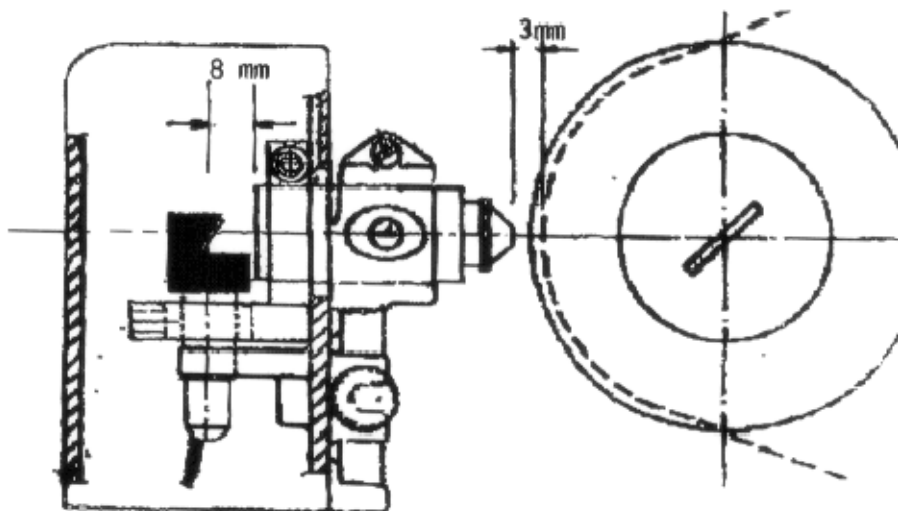
approx. in focus to the filmprint



**ACL 9 installed in a CINEMECCANICA
Soundhead V 8 with Soundlens 0082**

at the Soundhead from a
V5-Projector it is the same
configuration

approx. in focus to the filmprint



**ACL 9a installed in a CINEMECCANICA
Soundhead with Soundlens 0006900**

at the Soundhead from a
V5-Projector it is the same
configuration

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NEW PRODUCTS

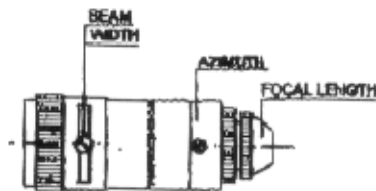
For the release of the new digital films Cineseccecnica set up the following products to improve also the quality of the analogue optical sound tracks reproduction.

Sound lens

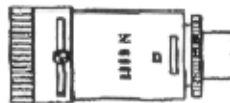
We have developed a new sound lens that produces a frequency response flat to and beyond 10-12.5 KHz with Dolby CAT. 240A preamplifier. This lens has also separate azimuth and focus adjustments (you can adjust the focus first, lock it and then go on to adjust the azimuth).

Even if the new lens looks very similar to the current one, the optical design is completely new.

It replaces the sound lens code 0082.



D06900



0082

With this new optical design the exciter lamp has to be positioned about 3 mm. closer to the back element of the sound lens itself.

The new sound lens can only produce the expected improvements if used together with the new exciter lamp housing assembly or if an old exciter lamp holder is modified with kit code number D06883 which is priced Lire 60.000=.

We strongly recommend not to use the new lens with the old exciter lamp holder unless it is modified to move the filament of the exciter lamp 3mm closer to the back element of the new sound lens. Otherwise the frequency response is not going to be satisfactory.

We have also noticed that the best results in the stereo optical reproduction can be obtained only by adding a lateral adjustment of the exciter lamp socket. We have developed a new exciter lamp housing assembly which is becoming standard at the end of 1993 (code D06490 in replacement of the 0040).