XLD (5.5 - 8.5:1) Zoom Lens

Installation Manual

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BARCO

Visibly yours

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The environmental conditions as well as the servicing and maintenance regulations specified in the this manual must be complied with by the customer.

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1. XLD (5.5 - 8.5:1) LENS KIT

1.1 Contents of the XLD (5.5 - 8.5:1) Lens Kit

Kit contents

- XLD (5.5 - 8.5:1) Lens.
- Installation Manual.
- Toraysee™ Cloth.

1.2 Lens Removal

No lens mounted !

The projector leaves the factory with no lens mounted. To protect the engine from e.g. dust, the lens gap is sealed with a foam cover. Remove the foam cover before lens mounting.

How to remove the mounted lens

1. Support the lens with one hand. (image 1-1)
2. Move the lens lock (A) to the left to unlock the lens securing system.
3. Carefully pull the lens backwards to disconnect the lens zoom connector (B).
4. Take the lens out the lens block.

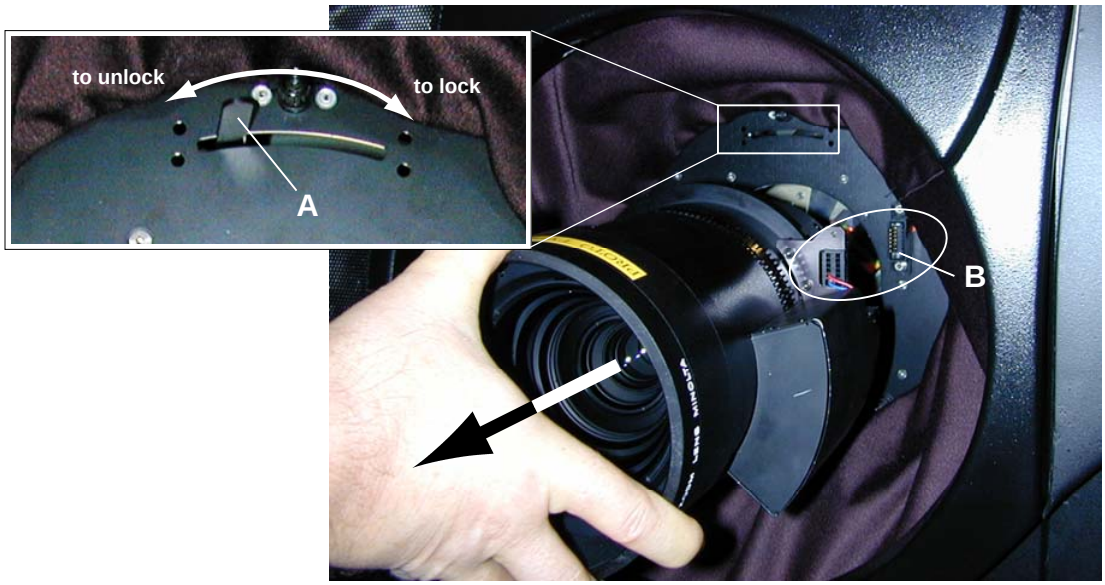

Image 1-1
Lens removal

1.3 Lens installation

How to install a lens ?

1. Unlock the lens securing system by putting the lock handle to the left (A). (image 1-2)
2. Move the rear of the lens into the lens block, lining up the lens plug with the lens connector (B) (image 1-2).
3. Carefully push on the lens until the connector seats into the socket.
   Note: *On the lens block a reference pin (B) is provided to center the lens. For that reason the lens body is provided with a notch (A) which has to match the reference pin after the lens plug connection into lens socket. (image 1-3)*
4. Pull the handle (A) to the right to lock the lens securing system (image 1-2).

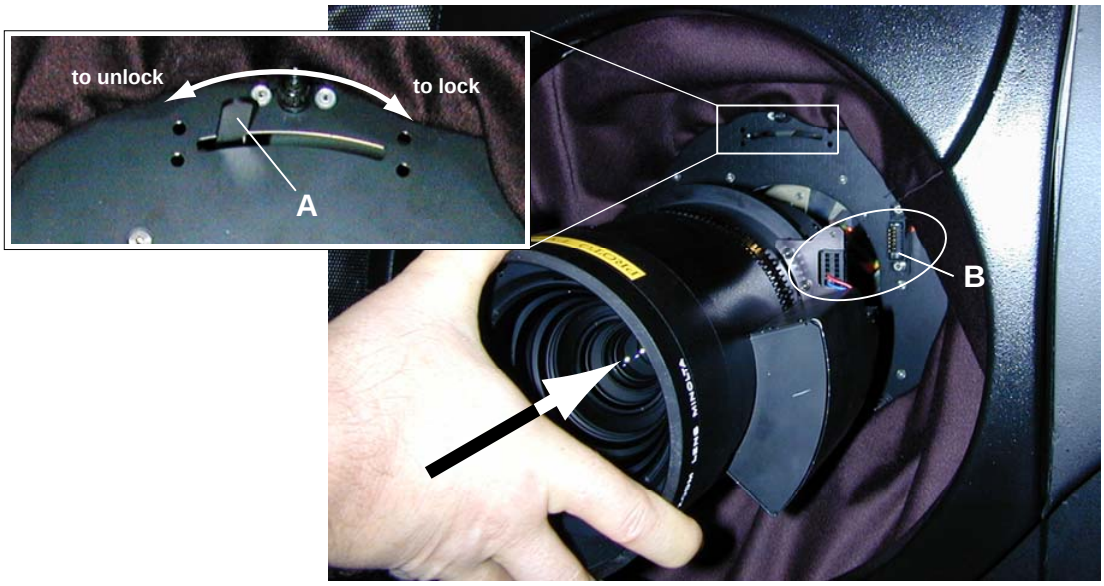

Image 1-2
Lens installation

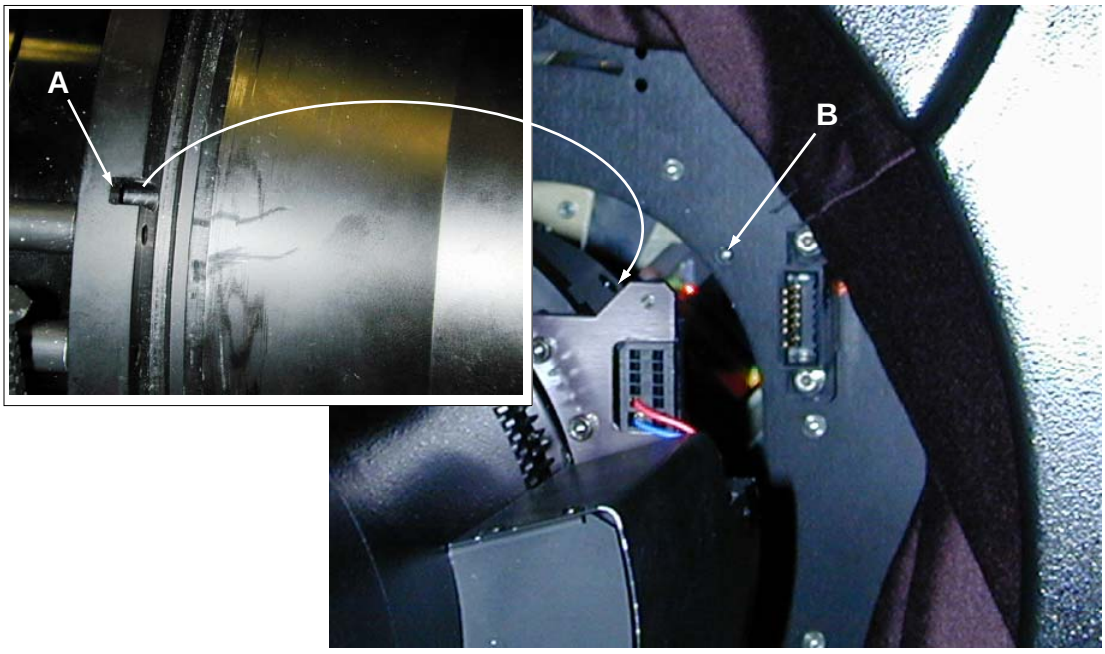

Image 1-3
Lens notch matching with reference pin

1.4 Cleaning the lens

To minimize the possibility of damaging the optical coating or scratching exposed lens surface, we have developed recommendations for cleaning the lens. FIRST, we recommend you try to remove any material from the lens by blowing it off with clean, dry deionized air. DO NOT use any liquid to clean the lenses.

Necessary tools

Toraysee™ cloth (delivered together with the lens kit). Order number : R379058.

How to clean the lens ?

Proceed as follow :

1. Always wipe lenses with a CLEAN Toraysee™ cloth.
2. Always wipe lenses in a single direction.
   Warning: *Do not wipe back and forwards across the lens surface as this tends to grind dirt into the coating.*
3. Do not leave cleaning cloth in either an open room or lab coat pocket, as doing so can contaminate the cloth.
4. If smears occur when cleaning lenses, replace the cloth. Smears are the first indication of a dirty cloth.

WARNING: Do not use fabric softener when washing the cleaning cloth or softener sheets when drying the cloth.

Do not use liquid cleaners on the cloth as doing so will contaminate the cloth.

CAUTION: Other lenses can also be cleaned safely with this Toraysee™ cloth.

2. LENS SPECIFICATIONS

2.1 Lens Formula

Calculation of the Projector distance (PD) as function of the Screen Width (SW)

Lens	Formula (Metric)	Formula (Inches)
XLD (5.5 - 8.5:1)	PD_{min}=5.57 x SW + 0.3m PD_{max}=8.60 x SW + 0.2m	PD_{min}=5.57 x SW + 12 Inches PD_{max}=8.60 x SW + 8 Inches

Due to production tolerances the real distances can differ by 2% from these calculated values.

For critical situations (fixed installs that use the lens at one of its extreme zoom positions) this should be taken into account.

2.2 Projector Distance determination

Reference for measuring the PD

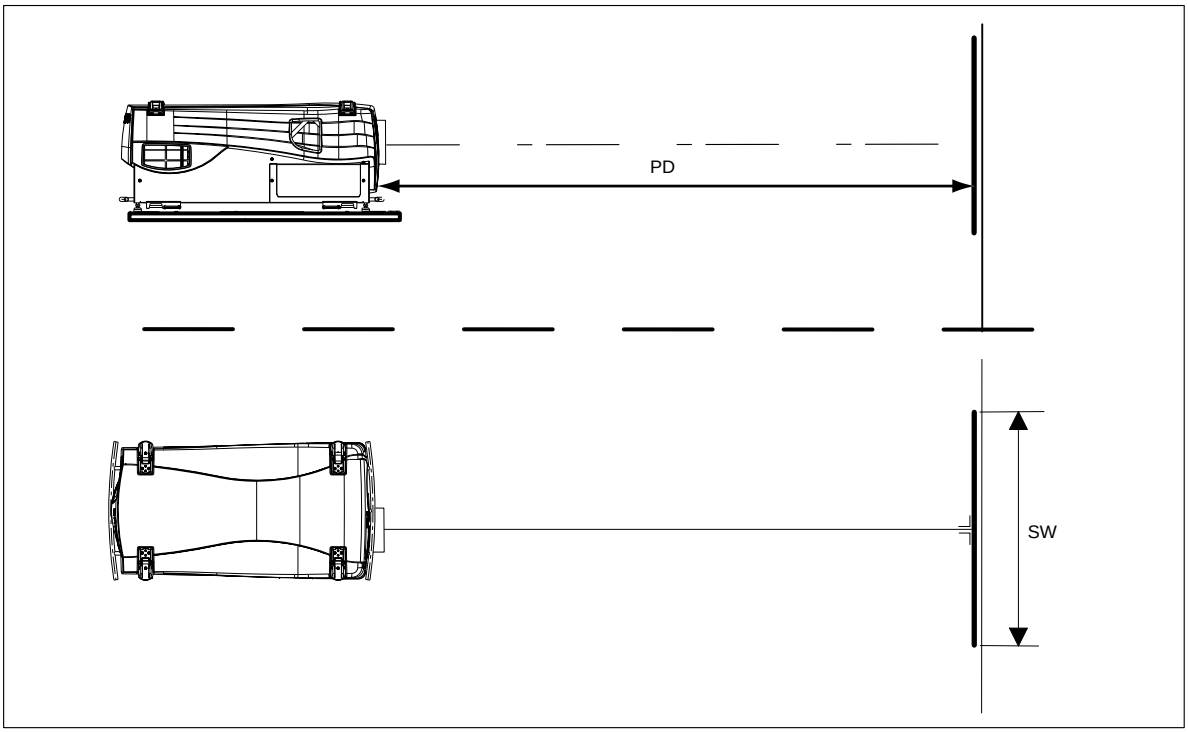

Image 2-1
PD measuring

The projection distance is the distance between front projector and screen surface, measured perpendicular onto the screen.

Revision Sheet

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