Installing the Jazz and Korus Series 0.34-0.37 UST lens

This document provides information on how to install and remove the Jazz and Korus Series 0.34-0.37 ultra-short throw (UST) lens (P/N: 140-164102-XX).

Affected products

The following products are affected:

- Christie DWU1800(A)-JS
- Christie DWU2400(A)-JS
- Christie 4K1600(A)-JS
- Christie 4K2100(A)-JS
- Christie 4K1400(A)-KS
- Christie 4K1000(A)-KS

Required components

Due to the shape of the Jazz and Korus Series 0.34-0.37 ultra-short throw (UST) lens, the following tools must be used for installation and removal to avoid equipment and property damage.

- Jazz and Korus Series 0.34-0.37 ultra-short throw (UST) lens (P/N: 140-164102-XX)
- Adjust Tool Kit – UST Lens (P/N: 003-007889-XX), including:
  - Boresight extender (quantity 4)
  - L-shaped socket tool
  - 4 mm hex key
  - Hanging slope S-type

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Installing the lens

Follow these steps to install the Jazz and Korus Series 0.34-0.37 ultra-short throw (UST) lens.

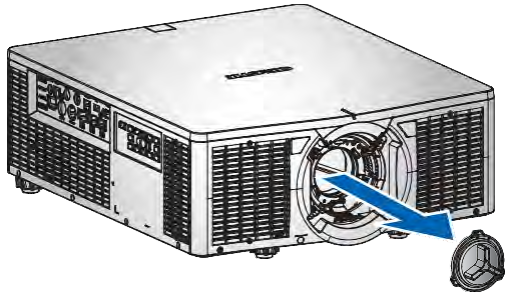
Warning! If not avoided, the following could result in death or serious injury.

- Follow the specified installation procedure to prevent the lens from detaching from the projector and causing personal injury.

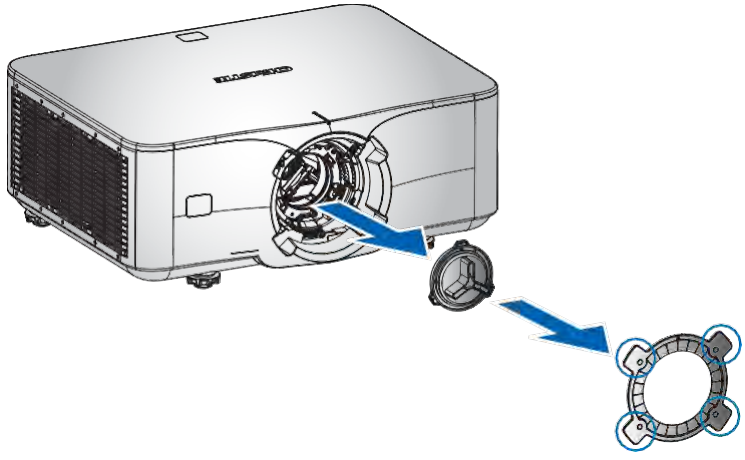
Notice. If not avoided, the following may result in equipment or property damage.

- When handling the projector after lens installation, make sure the front lens cap is placed on the lens to protect the lens surface from potential damage.
- When carrying or moving the projector, do not handle by the lens. This may damage the lens, the chassis, or other mechanical parts within the projector.

1. Turn off the projector and remove the power cord before installing or replacing a lens.
2. Remove the dust cover from the lens opening.

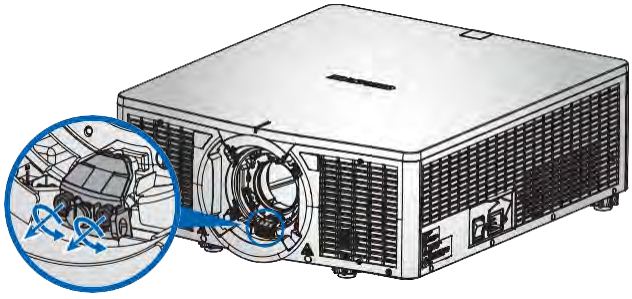


For the Korus Series, the dust cover and rubber ring must be removed before installing the UST lens. To remove the rubber ring, gently release the four corners one at a time. Do not pull the ring from the sides, as this may damage it.

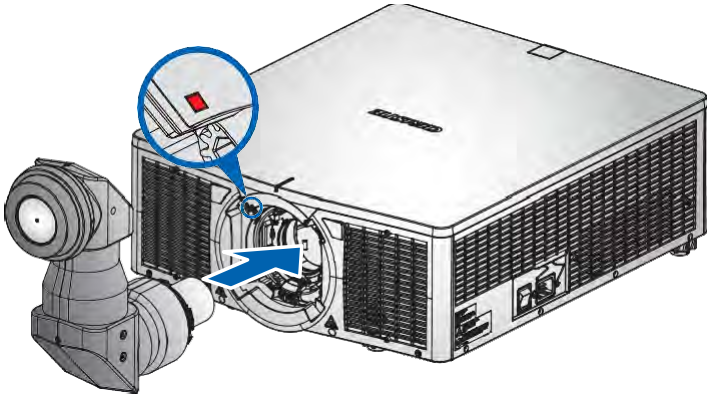


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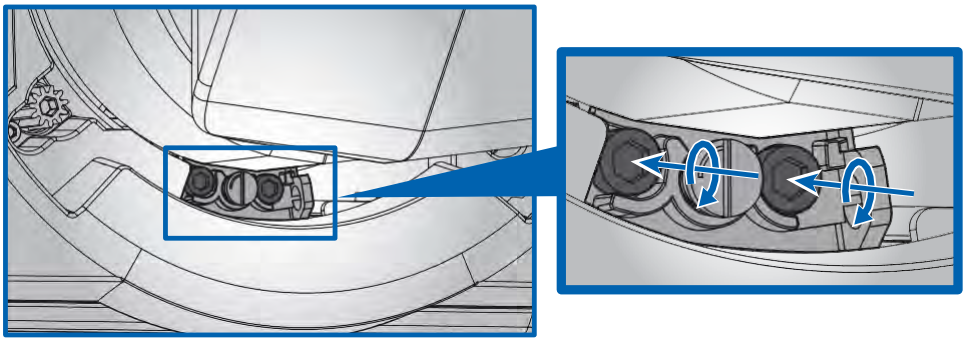
3. Loosen, but do not remove, the two lock plate screws.
   The lens cannot be installed unless both lock plate screws are loosened.



4. To avoid damage to the projector and lens, remove the rear lens cap before inserting the lens into the projector.
5. Align the lens alignment mark with the red marker on the projector front cover.



6. Insert the lens fully into the lens mount, and then rotate it clockwise until it clicks into the locked position.
7. Re-tighten the lock plate screws.
   If a lens lock error appears when the projector is turned on, verify the lens is fully locked and both lock plate screws are securely tightened. Verify the lens is fully seated and securely locked before operating the projector.



8. To prevent damage to the lens, remove the front lens cap before turning on the projector.

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Calibrating the lens motor

Make sure the lens motor is calibrated before using the projector. Failure to calibrate the lens motor properly may cause the following issues.

- Inability to use the full range of the lens motor
- Lens motor traveling beyond the lens shifting range
- Damage to the projector

Calibrate the lens motor when any of the following conditions are met:

- After a lens change
- After the projector has been relocated or its installation orientation has changed
- After any manual adjustment made to the zoom or focus

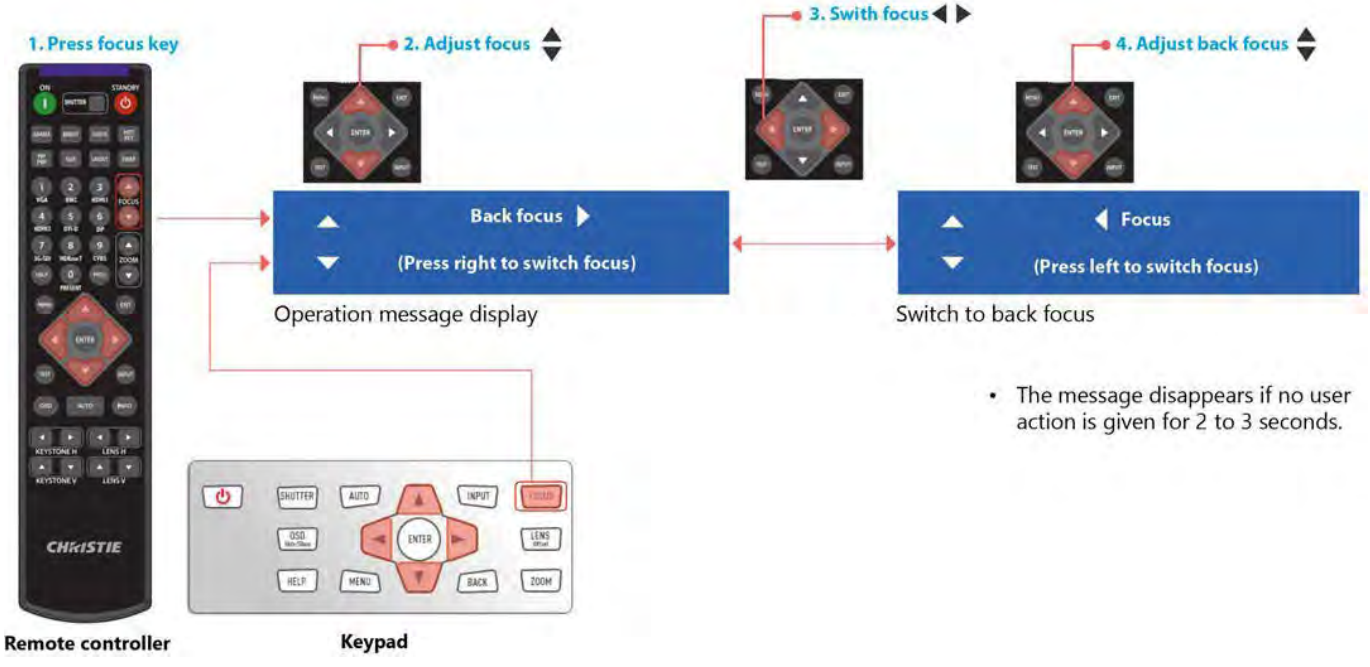
To calibrate the lens motor, complete the following steps:

1. Select **LENS** on the display keypad, or select **LENS H/LENS V** on the remote keypad.
2. Select **Lens Calibration** from the lens control menu.
3. Select **ENTER**.
4. Select **OK** to start lens calibration.

Operating the lens

To achieve optimal performance, the Jazz and Korus Series 0.34-0.37 ultra-short throw (UST) lens is equipped with two focus motors that can be adjusted using the remote keypad or display keypad:

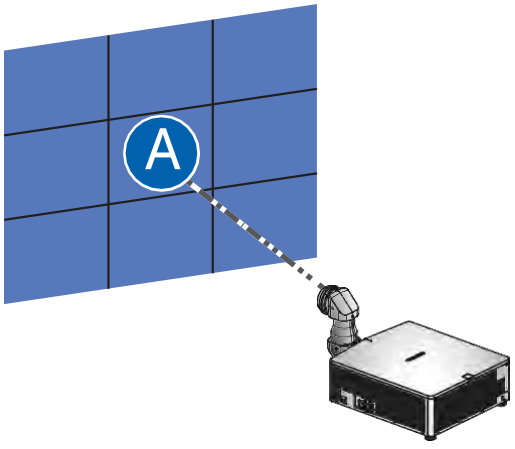
- Back Focus: Adjusts the entire screen focus (center and corners).
- Focus: Primarily adjusts the corner focus (the center may shift slightly).



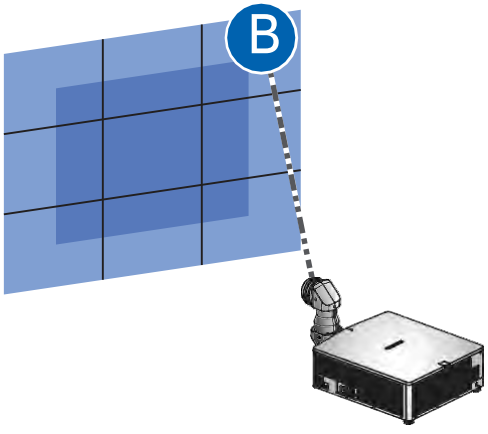
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To adjust the focus, complete the following steps.

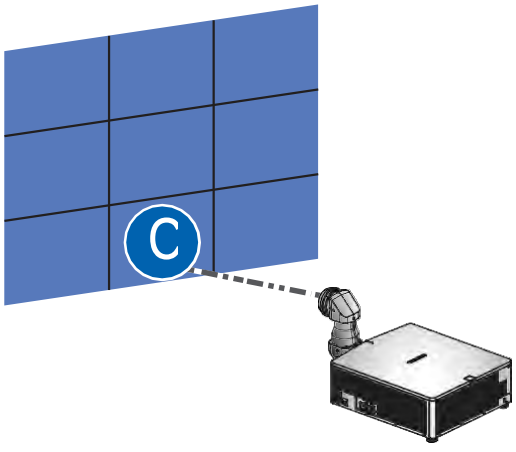
1. Select **Back Focus** to adjust the entire image (A in the image below).
   Focus on the part of the image closest to the lens, usually the center of the screen.



2. Select **Focus** to adjust the surrounding area (B in the image below).
   Focus on the part of the image farthest from the lens, typically the corners of the screen.



3. Select **Back Focus** again to fine-tune the overall focus (C in the image below).
   Restore the balance between the center and the outer areas and corners of the image.



4. If the image is still not clear, repeat steps 1 to 3 until both the center and corners are in focus.

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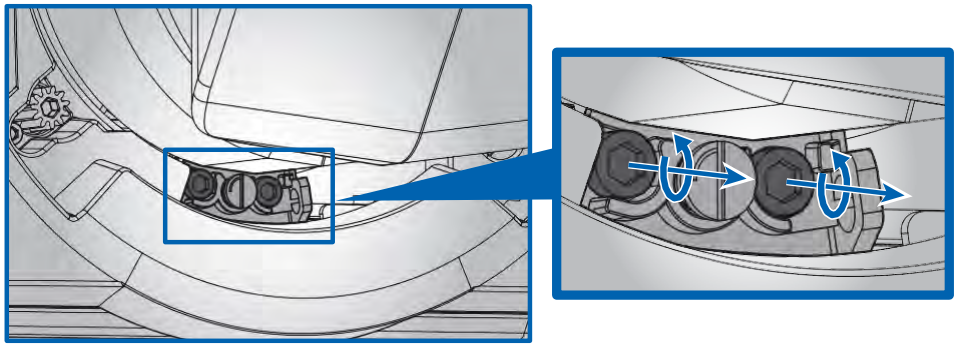
Removing the lens from the projector

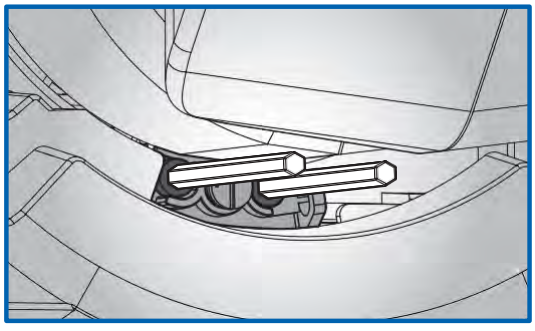
To safely remove the Jazz and Korus Series 0.34-0.37 ultra-short throw (UST) lens, complete the following steps.

Notice. If not avoided, the following may result in equipment or property damage.

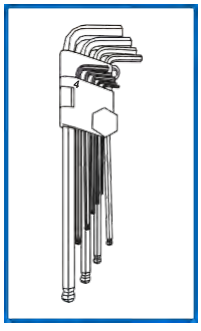
- Always install the front and rear lens caps when storing, transporting, or handling a removed lens. This prevents contaminants from entering the product.
- Do not operate the product without a lens installed.

1. With the projector turned on, select **LENS H** or **LENS V** and then select **ENTER** to return the lens to its center position.
   Make sure the lens is at or near its center position. Attempting to remove the lens with a large offset may cause damage to the lens assembly.
2. Turn off the projector.
3. Wait until the projector has completed its cool-down cycle and has entered Standby mode before removing the lens.
4. Disconnect the power cord.





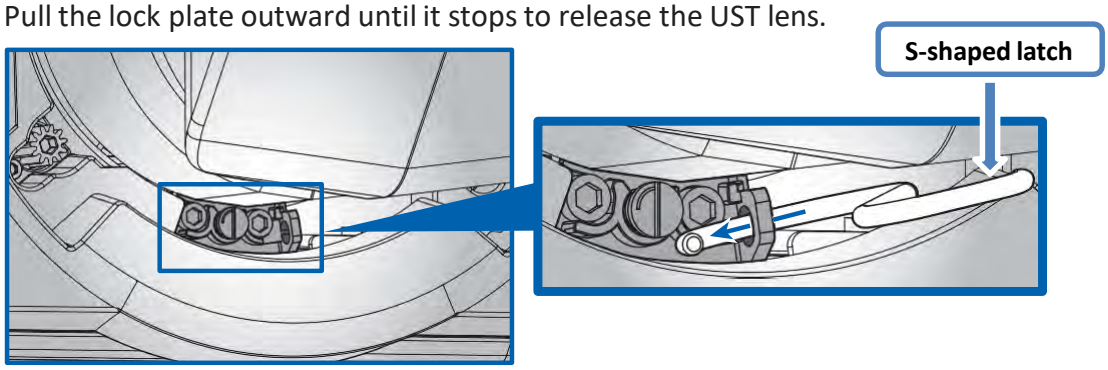
or



5. Loosen but do not remove the two lock plate screws.
   Use a 4 mm hex key with an extension or a long-handled 4 mm hex key for easier access.

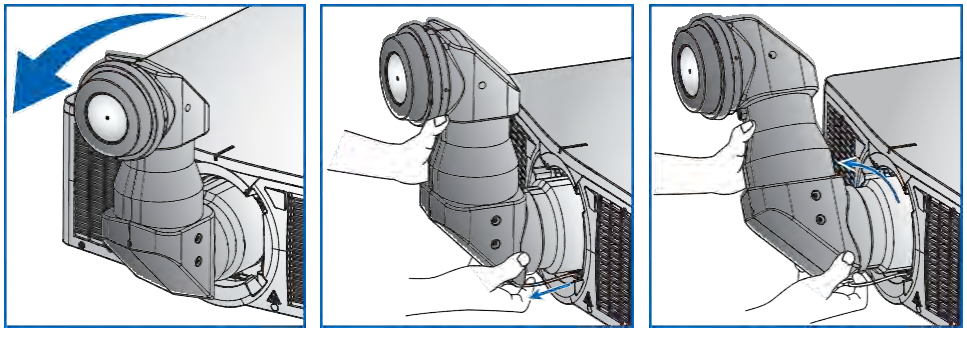
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6. Pull the lock plate outward until it stops to release the UST lens.



Caution! If not avoided, the following could result in minor or moderate injury.
Keep the lens securely supported until it has been completely removed from the projector.

7. Hold the upper part of the lens securely with your left hand.
8. Support the bottom and weight of the lens with your right palm, while keeping your right-hand fingers free to operate the S-shaped latch.
9. To unlock the lens, hook the S-shaped latch with your right-hand fingers and gently pull it outward, away from the projector.
10. Carefully rotate the lens counterclockwise approximately 35 degrees to the unlocked position.



11. Keeping the lens level, gently pull it straight out of the projector lens mount. Do not twist or tilt the lens.
12. Reinstall the dust cover on the projector.

Technical support

Technical support for Christie Enterprise products is available at:

- North and South America: +1-800-221-8025 or *Support.Americas@christiedigital.com*
- Europe, Middle East, and Africa: +44 (0) 1189 778111 or *Support.EMEA@christiedigital.com*
- Asia Pacific (*support.apac@christiedigital.com*):
  - China: +86 10 6561 0240 or *tech-supportChina@christiedigital.com*
  - India: +91 (80) 6708 9999 or *tech-India@christiedigital.com*
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