



PURPOSE

This document provides instructions for switching between 2D and 3D lenses on the Sony lens change table.

T-RATCHET OPERATION

1. **Ensure** that the T-Ratchet extension tool is in the proper position. The selection collar is marked with two arrows and a center circle.

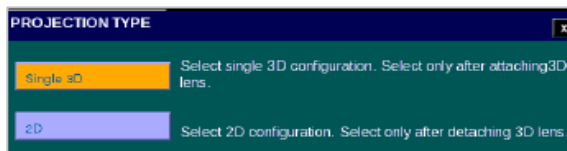


- **Align** the circle with the square on the handle if no ratchet action is desired. The tool will operate as a screw driver in this state.
- **Align** the circle with the arrow pointing to the right (when looking at the tool with the handle at the bottom) if the tool will be used to loosen the lens bolts.
- **Align** the circle with the arrow pointing to the left if the tool will be used to tighten the lens bolts.



TRANSITION FROM 2D TO 3D LENS

1. **Strike** the lamp using the Prepare Auditorium button on the projector and **wait** 40 seconds after the lamp ignites to proceed.
2. **Select** Menu > Projector > Projector Type.

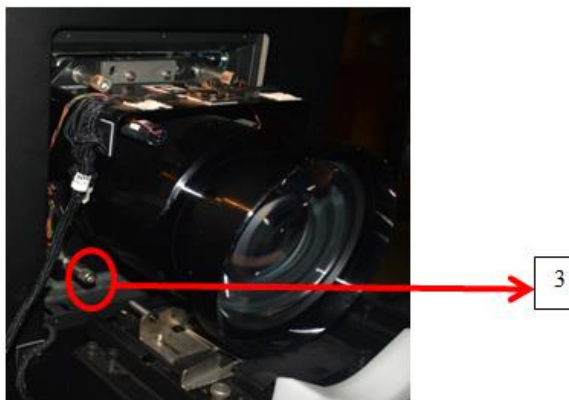


- a. **Change** the projection type to Single 3D.
- b. **Select** Close.

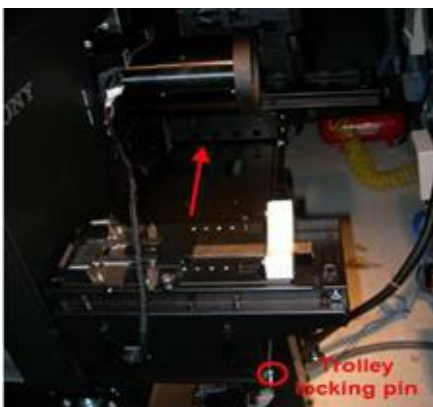
3. **Select Menu > Projector > Projector Control.**
 - a. **Select 'Change Function,' scroll down, then select 'F8[3D] 3D Flat.'**



4. **Turn the lamp off by selecting the 'Lamp Off' button.**
5. **Loosen and remove the #3 bolt using the T-Ratchet Extension tool holding the 2D lens.**



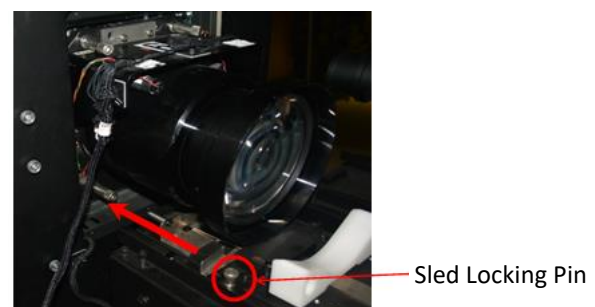
6. **Pull the trolley locking pin out towards the port glass and slide the trolley under the 2D lens until it locks into position.**



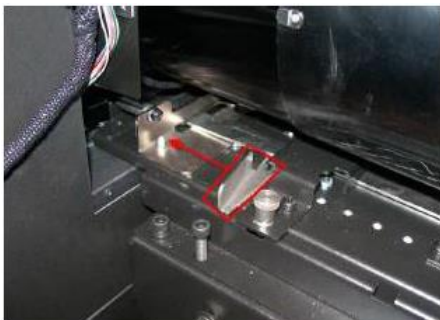
Trolley position when it locks into position under the 2D lens



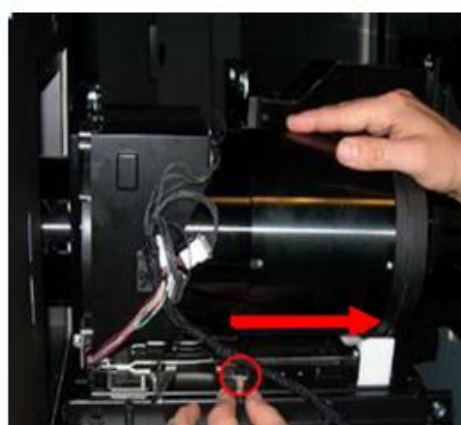
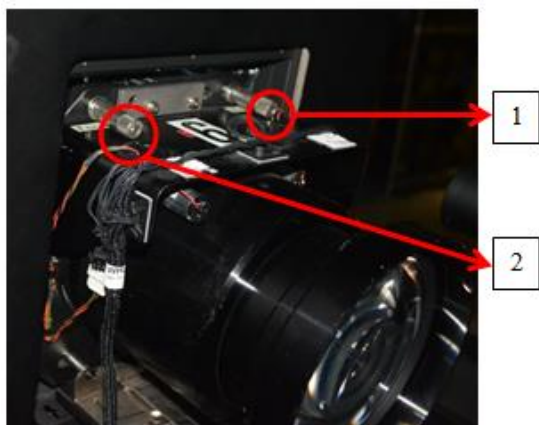
7. **Lift the sled locking pin and slide the sled towards the projector until the locking pin is seated in the rear position and the white lens support block is under the front of the lens.**



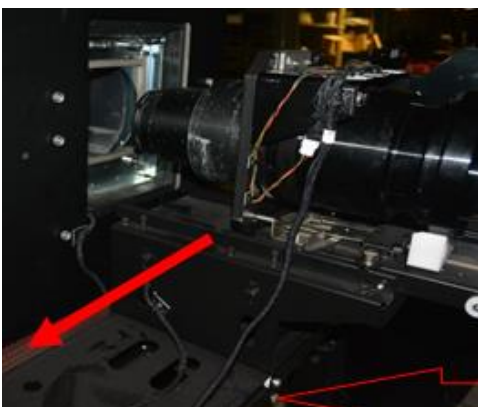
8. **Slide** the silver sled lever towards the projector to lock the lens to the sled.



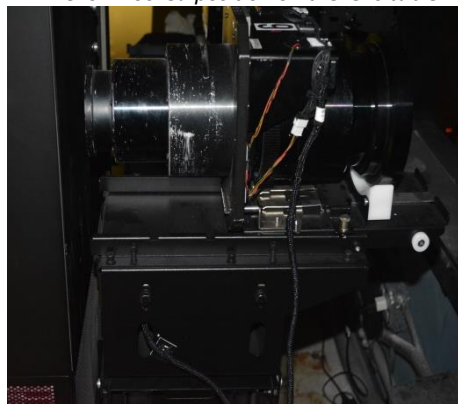
9. **Loosen** and remove the #1 and #2 lens bolts using the T-Ratchet Extension tool.
- Lift** the sled locking pin and **slide** the sled/lens out towards the port glass past the 2nd stop until it locks into place and clears the projector.
 - Lift** the lens from underneath and from the back; **avoid** holding from the front of the lens.



10. **Pull** the trolley locking pin out towards the port glass and **slide** the trolley into the docked position. Make sure to push back against the set pins, but not push on the lens portion itself.



2D lens in locked position on the lens table

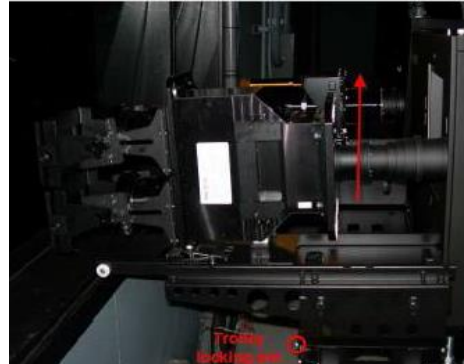




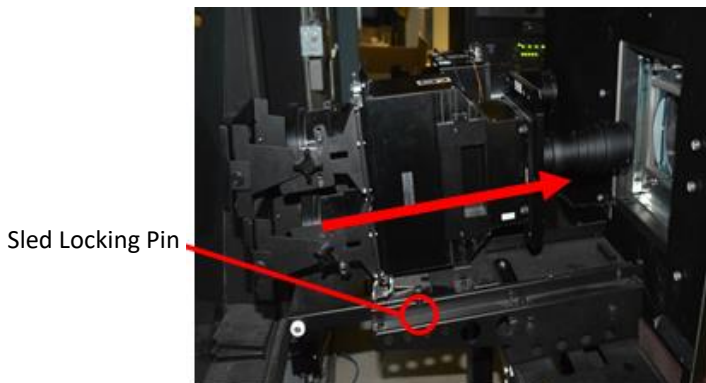
Lens Table Operation

AMC ☒ AMC Classic ☒ AMC Dine In ☒

11. **Walk** to the other side of the projector to the 3D lens.

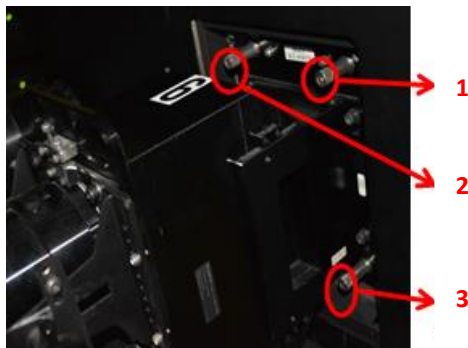


- Lift** the sled locking pin and **slide** the sled towards the port glass past the 2nd stop until the rear lens clears the projector and locks into place.
 - Pull the trolley locking pin out towards the port glass and **slide** the trolley into the manual position.
12. **Lift** the sled locking pin and **slide** the sled towards the projector past the 2nd stop until it is fully mounted against the projector.



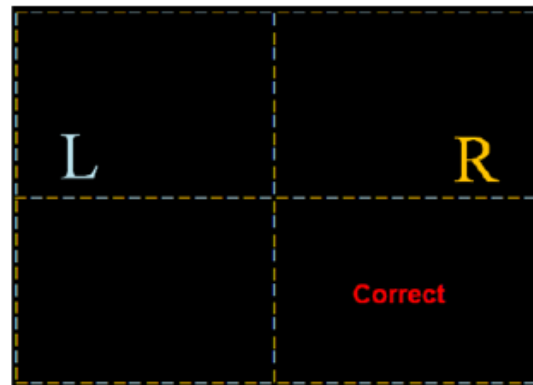
13. **Install** all 3 lens bolts and **tighten** with your fingers. Using the T-Ratchet Extension tool, **tighten** the lens bolts using the 1-2-3 sequence. When the extension begins to bend the proper tension has been achieved. **Do not over tighten the lens bolts.**

Proper tension achieved when extension bends





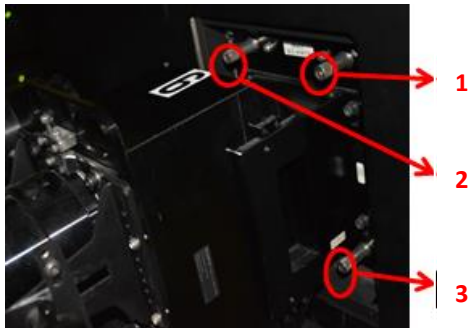
14. Turn on the lamp. **Select** Menu > Projector > Projector Control. **Wait** 40 seconds for the projector to recover.



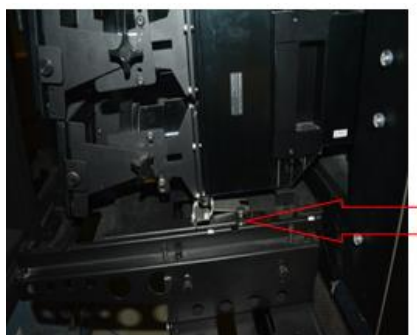
15. Turn on the convergence test pattern.
 - a. **Select** Menu > Projector > Adjustment.
 - b. **Select** Test Patterns.
 - c. **Select** Convergence Adjust.
 - d. **Verify** that the image is converged properlyⁱ.

TRANSITION FROM 3D TO 2D LENS

1. Turn off the lamp.
 - a. **Select** Menu > Projector > Projector Control.
 - b. Turn off the lamp by selecting the "Lamp Off" button.
2. Loosen and remove all the 3 lens bolts using the T-Ratchet Extension tool.



3. Lift the sled locking pin and pull the lens towards the glass past the 2nd stop until the rear lens clears the projector and locks into position. Be sure to hold the lens from underneath while pulling the lens.





Lens Table Operation

AMC ☒

AMC Classic ☒

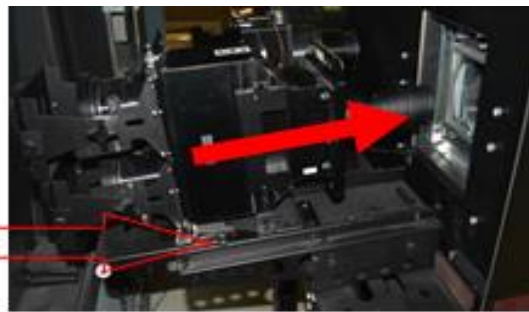
AMC Dine In ☒

4. **Pull** the trolley locking pin out towards the port glass and slide the trolley into the docked position.

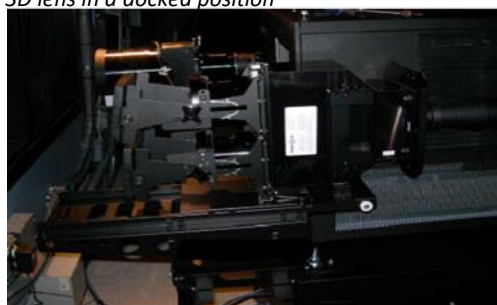
Trolley Locking Pin



Sled Locking Pin

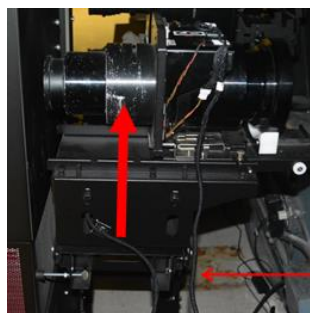


5. **Lift** the sled locking pin up and slide the sled back towards the projector until the sled locks into place.
3D lens in a docked position

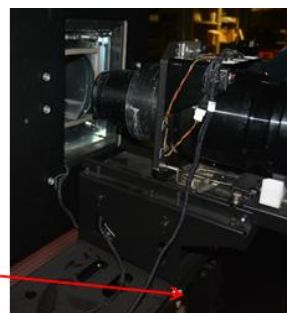


6. **Walk** to the other side of the projector to the 2D lens.
- Pull** the trolley locking pin out towards the port glass.
 - Slide** the trolley into the mount position.

2D Mount Position



Trolley Locking Pin

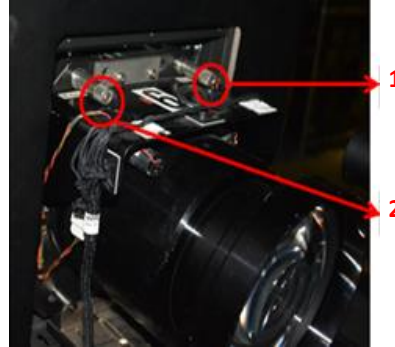
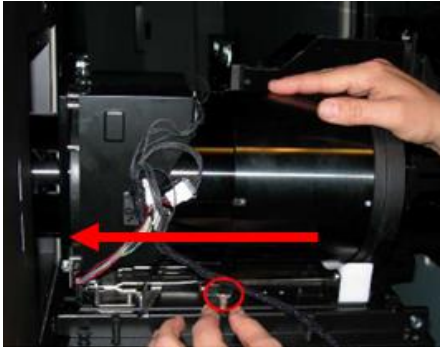




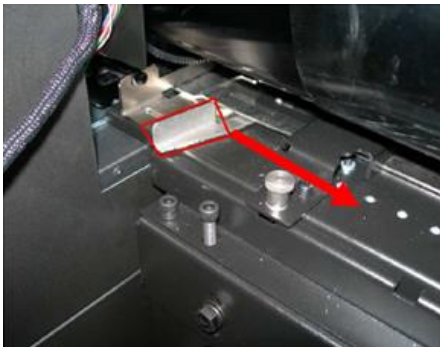
Lens Table Operation

AMC ☒ AMC Classic ☒ AMC Dine In ☒

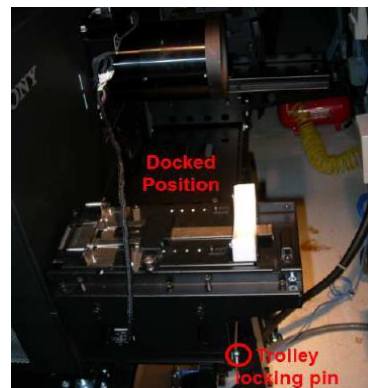
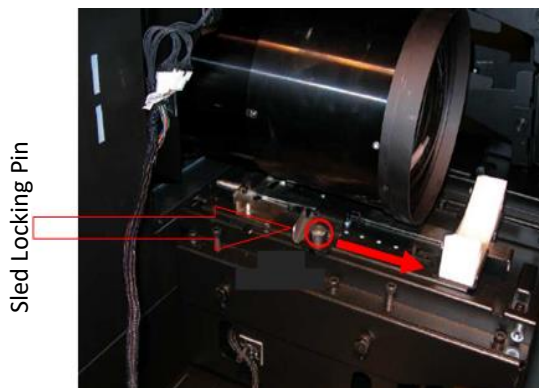
7. **Lift** the sled locking pin and **slide** the sled towards the projector past the 2nd stop until it is fully mounted against the projector. **Insert** the top two lens bolts, finger tight only. When sliding the sled towards the projector, push the full back against the set pins, but not pushing on the lens portion itself rather, the sides or underneath.



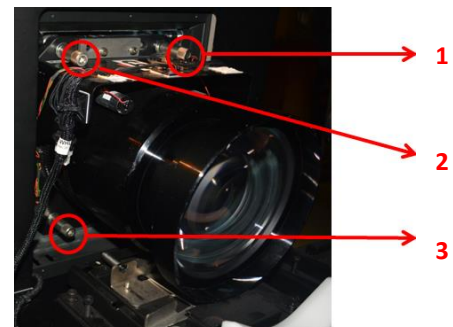
8. **Release** the sled from the lens by sliding the silver sled lever towards the port glass.



9. **Lift** the sled locking pin and **slide** the sled towards the port glass until the white block is no longer under the lens.

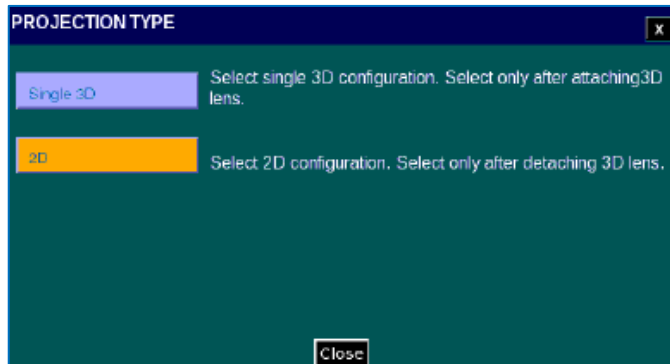


10. **Pull** the trolley locking pin out towards the port glass and **slide** the trolley into the docked position.
11. **Install** the 3rd lens bolt, finger tight. Using the T-Ratchet Extension tool, **tighten** the lens bolts using the 1-2-3 sequence. When the extension begins to bend, proper tension has been achieved.

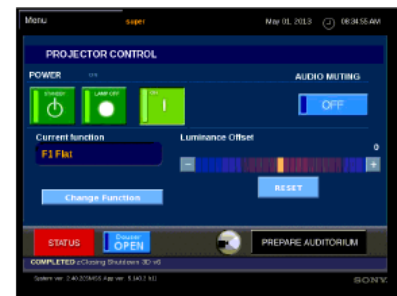
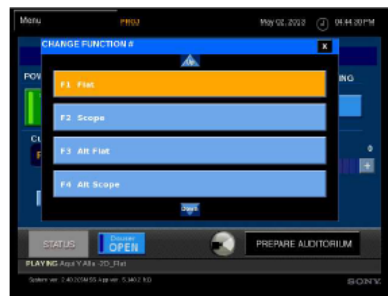




12. **Strike** the lamp using the Prepare Auditorium button. **Wait** 40 seconds after the lamp ignites to proceed.
13. **Select** Menu > Projector > Projection Type.
 - a. **Change** the projection type to 2D.
 - b. **Select** Close.



14. **Select** Menu > Projector > Projector Control.
 - a. **Select** Change Function, **scroll up** and **select** F1 Flat. The function change is complete when “F1 Flat” is shown in the “Current Function” window.



15. **Turn on** the flat test pattern.



- a. **Select** Menu > Projector > Adjustment.
 - b. **Select** Flat.
 - c. **Verify** the image onscreen.
16. **Check** all scheduled SPLs to make sure they contain 2D lens functions. (F1, F2, or F5)

ⁱ [SS-6-25, Projector Image Alignment Check \(Sony 3D\)](#)