

## OAPI/M Payload Installation and Removal S-AB-P-189 Rev A

**Intent:** Use this procedure to install or remove a payload from the OAPI/M in OMEGA EP

**Personnel requirements (for both installation and removal):**

- A qualified operator must be present at all times if an optic is being installed.
- An assistant is required to operate the payload lifting hoist.
- An OMAN representative to monitor payload interferences and inspect the optic after final loading or unloading is complete.

**Material Required:**

- 3/16" Allen wrench
- OAPI/M socket tool
- Clevis tool
- Orange cones for securing the area

**Payload Installation:**

**Prerequisite:**

- Ensure the OAPI/M is on its Workstand.
- Ensure the overhead cover is in place above the OAPI/M and the below the grating.
- Ensure the OAPI/M is in the DISCONNECTED state (on the touch screen)

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If an optic is being installed, establish a secure area above and around the OAPI/M.  
If not already installed, cover the floor grating above the insertion point.

- 1
- Personal may not enter this area during payload installation.

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- 2
- Move the payload shipping container to the upper TAS deck ready to dispense the optic.

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Open the container and attach the lifting fixture using the Clevis tool; then raise the payload to a position above the OAPI/M.

- 3
- Slide the lift trolley over the loading location while securing the hoist service behind the optic; then open workstand cover.
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Slowly guide the payload down and onto the lower front clip of the OAPI/M.

- 4
- Stop at half travel and slightly loosen the upper clamp knobs.

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**Attach Payload**

- Install the top clip to the payload and tighten with the Allen wrench.
  - Rotate the lower clamp release shafts CCW using the OAPI/M socket tool.
  - Rotate the upper spring plunger CW.
  - Turn the upper clamp knobs until they are ‘finger tight’.
- 5
- Visually inspect the optic is seated onto the lower pads
  - Slide workstand cover over optic.

If the payload is the ‘H7X’ ensure the Firewire cable is installed safely on the OAPI/M.

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**Payload Removal:**

**Prerequisite:**

- Ensure the OAPI/M is on its Workstand.
- Ensure the overhead cover is in place above the OAPI/M and the below the grating.
- Ensure the OAPI/M is in the DISCONNECTED state (on the touch screen)

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If an optic is being installed, establish a secure area above and around the OAPI/M.  
If not already installed, cover the floor grating above the insertion point.

- 1
- Personal may not enter this area during payload installation.

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- 2
- Move the payload shipping container to the upper TAS deck ready to receive the optic.

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**Detach Payload**

- Slide workstand cover to uncover optic.
  - Attach clevis to lifting fixture/attach hoist hook to clevis/remove slack in strap.
  - Loosen the upper clamp knobs.
- 3
- Rotate the lower clamp release shafts CW using the OAPI/M socket tool.
  - Rotate the upper spring plunger CCW to its extent.
  - Remove the top clip to the payload using the Allen wrench.

If the payload is the H7X make sure that the Firewire cable is free.

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- 4 If the payload has a lifting frame, use its handles to slowly guide the payload away from the OAPI/M; otherwise steady the payload as it comes up off of the front clip.
- Stop at half travel and finger tighten the upper clamp knobs.
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- 5 Once OAPIM is vertically clear of workstand, secure the hoist services and slide the hoist to a position over the shipping container.
- Move the payload clear of the OAPI/M and slowly lower it into the shipping container. Close the shipping container and transport it to a storage location.
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- 6 If appropriate, unsecure the area.
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(End)

**Document Release:**

**OAPI/M Payload Installation and Removal; S-AB-P-189**

This document is a component of Vol. X, OMEGA EP Subsystem and Component Maintenance, Chapter 4, Beamlines Operating Procedures, S-AB-P-019.

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