

Bulletin No. SVC-FSB-0017 Rev. -

Release Date **11/4/13**

Contact ngceoservice@ngc.com

Product

Lasers with 40 gram desiccant cartridge.

Special Information

MAINTENANCE: This service bulletin is for informational purposes only. It is intended for use by Northrop Grumman Cutting Edge Optronics (NG CEO) employees and is distributed to non-NG CEO employees as a courtesy. NG CEO assumes no liability for any inaccuracy in the content of this document or for any damage caused by the information or advice provided. Please contact NG CEO technical service for further assistance.



WARNING NG CEO recommends that a qualified service technician perform the optical alignment of the Adamirus Laser to avoid any damage.

WARNING Waiting to replace desiccant until all sectors on desiccant cartridge have turned white will result in optical damage.

40 Gram Desiccant Cartridge Service

Purpose

The desiccant cartridge must be periodically serviced to keep the laser dry. It should be checked weekly for exhaustion. Exhaustion is indicated when the 30% level sector has turned a lighter shade of blue and the 15% level has turned light pink. When the color changes occur, the desiccant has absorbed the maximum recommended moisture, and the desiccant beads must be exchanged.

Scope

The 40 gram desiccant cartridge became available in late 2013. The Gigashot Laser was introduced with the 40 gram desiccant. The large desiccant will be used on the Patara-HP after November 2013 and Patara in early 2014.

Safety and Environmental

Turn off the eDrive prior to changing the desiccant cartridge.

Housing Preparation

- Blow off debris outside of laser housing using nitrogen

Bulletin No.	SVC-FSB-0017 Rev. -
Release Date	11/4/13
Contact	ngceoservice@ngc.com

- Wipe the housing clean using TechniSat Pre-wetted wipes.

Supplies Needed

- Desiccant supplies can be purchased from NG CEO, or directly from AGM Container Controls, Inc. telephone number 800-995-5590.
 - Desiccant cartridge NG CEO part no. 42-228
 - Refill part number 643665
 - Refill tool 980412
- No cartridge installation tool is needed. The 40 gram desiccant cartridge is hand tightened.

Procedure

- To exchange the desiccant, remove the desiccant cartridge from the top cover of the laser housing.
- Use the refill tool to remove the retainer ring, and exchange the desiccant.
- The refill package is contains 50 grams of desiccant. Fill the cartridge to the surface that the filter rests on. Do not overfill.
- Make sure that there are no desiccant beads on the surface that the filter rests on. Install the paper filter, then the screen, then the retainer cap.
- Replace the desiccant cartridge immediately to minimize the amount of time that the desiccant cartridge is removed from the laser housing.
- Tighten the desiccant cartridge by hand. DO NOT OVERTIGHTEN.

Maintenance Frequency

The desiccant should be checked weekly and serviced as need when exhausted. The frequency will vary based on site/regional humidity, and frequency of opening the laser top cover. A second desiccator assembly is recommended to reduce the time the desiccator assembly is removed from the Patara Laser cover. Any spare desiccators should be stored in a cool dry area. A nitrogen purged dry box is recommended for storage.

Bulletin No.	SVC-FSB-0017 Rev. -
Release Date	11/4/13
Contact	ngceoservice@ngc.com

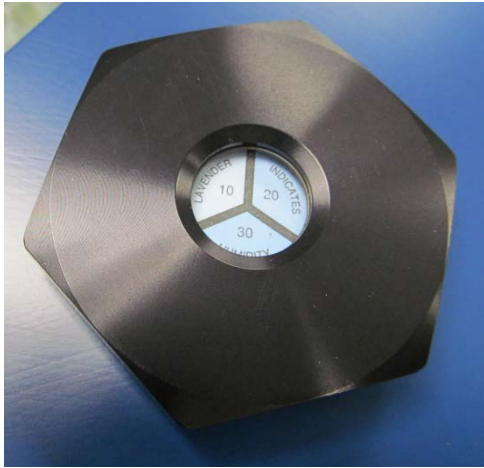


Figure 1 40 Gram Desiccant Cartridge Top

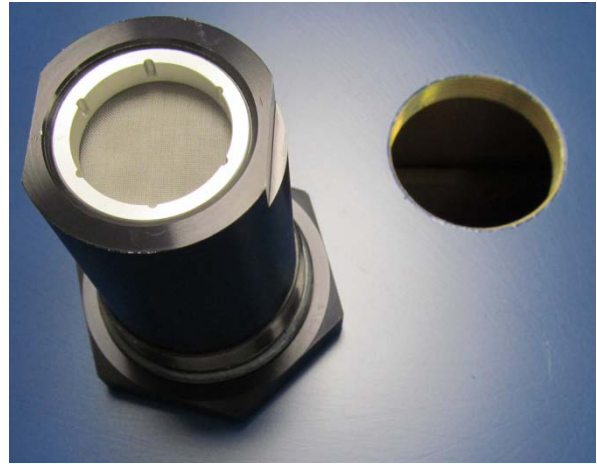


Figure 2 40 Gram Desiccant Bottom



Figure 3 50 Gram Refill and Refill Tool