


Document Title		RHGSE Schedule of Periodic Maintenance		
Document No.	Rev	Document Type	Release Date	
Appendix D	C	Instructions	January 29, 2019	

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### NOTE

*Always store the RHGSE in a dry location (All RHGSE)*

Plug in charger to charge the batteries after every use and when being stored (*Hydraulic RHGSE only*)

#### During each use


- Check the Rotatub slip clutch with a push/pull linear scale. (*all RHGSE*) Adjust as required if cable starts to twist.
- Visually inspect the system for any excessive wear or damage.
- Check voltage monitor while RHGSE is running
- Change the Lubridryer Pads before each use

#### Monthly (estimated depends on usage)

- Check the Rotatub slip clutch with a push/pull linear scale. (*all RHGSE*) Adjust as required.
- Oil capstan chain by adding a few drops of MIL-L23699 oil on the upper capstan chain through the small hole in the upright bracket base. (*All RHGSE*)
- Check capstans diameter. Replace Capstans as required.
- Check electrical connections, tighten as required.

#### Annually:

- Check electrical power connections. Torque values: (*Hydraulic RHGSE only*)  
 Battery terminal stud nut 108 (in-lbs.) / 12.20 (N-m)  
 Pinch nut 55 (in-lbs.) / 6.21(N-m)  
 Motor 108 (in-lbs.) / 12.20 (N-m)  
 Battery Switch and Receptacle Assembly 120 (in-lbs.) / 13.56 (N-m)
- Grease the fittings on the two (2) swiveling casters with MIL-PRF 81322 grease. (*All RHGSE*)
- Adjust drum drive belt and vertical belt to obtain approx. 1/16" deflection at the mid-point using 2 lbs./0.91 kg force. (*All RHGSE*)
- Check Capstan Drive Chain (*All RHGSE*)
- Load Display Scaling Check
- MagSens NiDAQ Check
- Grease the Rotatub Clutch if an older unit

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On Condition

- Change Lubridryer pads, as required, during water wash or on condition. *(All RHGSE)*
- Measure the Capstans using a 6" micrometer or the Zephyr ZT-029-00 Capstan Measurement Fixture. *(ZT-029-00 is Included in the optional ZMT-100 Maintenance Kit)* If the Capstans are worn they need to be replaced. Capstans have a 5-year shelf life and need to be replaced 5 years from DOM. The service life will vary upon level of usage. *(All RHGSE)*
- Replace the Exit Roller and MagSens Encoder Drive Wheel (if applicable) when worn. These have a 5-year shelf life and need to be replaced 5 years from DOM. The service life will vary upon level of usage. *(All RHGSE)*
- Replace Lubridryer bushings and MagSens bushings (if applicable) when worn. *(All RHGSE)*
- After a salt water mission, the cable should be washed with fresh water, then the Zephyr RHGSE should be washed, avoiding the displays. Use shop compressed air (up to 30 psi) to blow off any water remaining on the RHGSE or towel dry. *(All RHGSE)*
- Change the hydraulic fluid filter when it shows the change filter indication. *(Hydraulic RHGSE only)*
- Replace main batteries every 3-4 years, or if either battery drops below 12 V with the charger disconnected and when in use *(Hydraulic RHGSE only)*.