

Document Title	Manual RHGSE Schedule of Periodic Maintenance			
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Appendix D (M)	Orig	Instructions	Maintenance Tasks	April 29, 2024



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NOTE: It is recommended to replace both the top and bottom Capstans at the same time, because of wear issues so that the RHGSE can work at its best performance. The shelf life of the material used to coat the Capstans, the Exit Roller, and the Encoder Roller in the MagSens head is five (5) years from the date of manufacture (DOM) when stored in a climate-controlled environment: Temperature: 68° F to 77° F (20° C to 25° C) and Humidity: <80% RH. The service life will vary upon level of usage. **(All RHGSE)**

⚠ CAUTION: ALWAYS store the RHGSE in a dry location and NEVER store the RHGSE under a plastic bag, especially in humid or wet weather conditions, as it may trap moisture and cause the capstans to swell. If this occurs the capstans will need to be replaced before operating the RHGSE. **(All RHGSE)**

Manual RHGSE Schedule of Periodic Maintenance Task List		Each Use (Prior or During)	Monthly (estimated depends on usage):	Annually	On Condition
<input type="radio"/>	Check the Rotatub Slip Clutch with a Push/Pull Linear Scale. Static breakaway load should be 2 -3 lbs. (0.9- 1.4 kg) max , adjust as required.	√	√		
<input type="radio"/>	Visually inspect the system for any excessive wear or damage, paying close attention to the capstans and exit roller and the Encoder Wheel on the MagSens <i>(if applicable)</i> .	√			
<input type="radio"/>	Change the Lubridryer Pads before each use. When performing a water rinse, make sure to change the Lubridryer Pads again before retracting the cable back onto the hoist, to prevent the salt residue going back onto the hoist drum.	√			
<input type="radio"/>	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.		√		
<input type="radio"/>	Check capstans diameter and replace as required.		√		
<input type="radio"/>	Grease the fittings on the two (2) swiveling casters with MIL-PRF 81322 grease.			√	
<input type="radio"/>	Adjust drum drive belt and vertical belt to obtain approx. 1/16" deflection at the mid-point using 2 lbs./0.91 kg force.			√	
<input type="radio"/>	Check Capstan Drive Chain.			√	
<input type="radio"/>	Load Display Scaling Check.			√	
<input type="radio"/>	MagSens NiDAQ Check <i>(if applicable)</i> .			√	
<input type="radio"/>	Grease the Rotatub Clutch if an older unit <i>(if applicable)</i> . All newer units have Delrin Pads, and do not need to be greased.			√	
<input type="radio"/>	Measure the Capstans using a 6" micrometer or the Zephyr ZT-029-00 Capstan Measurement Fixture. If the Capstans are worn they need to be replaced. <i>(ZT-029-00 is Included in the optional ZMT-100-1 Maintenance Kit)</i>				√
<input type="radio"/>	Replace the Exit Roller when worn.				√
<input type="radio"/>	Replace the MagSens Encoder Drive Wheel when worn. <i>(if applicable)</i>				√
<input type="radio"/>	Replace the Lubridryer Bushings when worn.				√
<input type="radio"/>	Replace the MagSens Bushings when worn. <i>(if applicable)</i>				√
<input type="radio"/>	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.				√