

Figure 7. Installation of quick disconnect and APS 136 torque requirements

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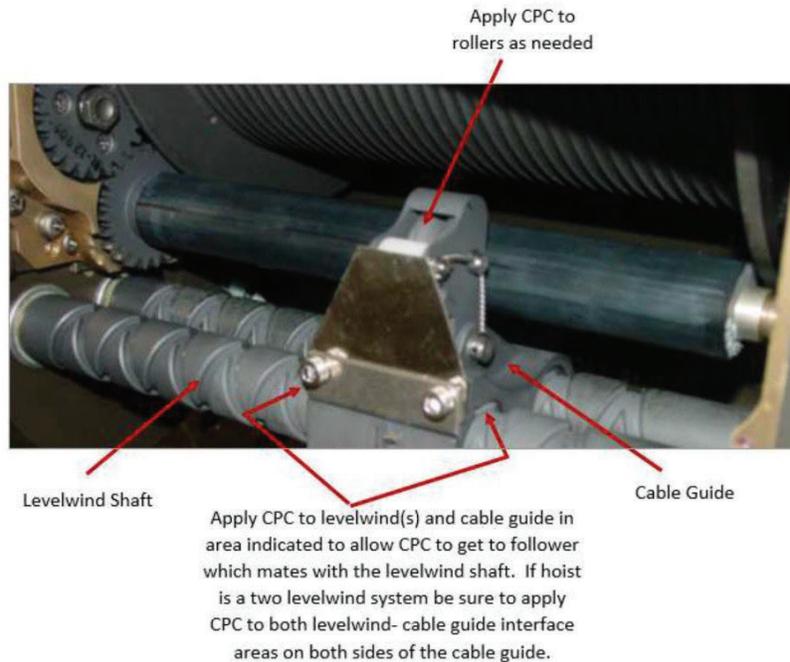
Corrosion Control for the External Hoist

The question is often asked about corrosion control on the Breeze-Eastern BL-29900-30-1 external rescue hoist.

In general, questions related to cleaning and corrosion control for aircraft can be found in TM 1-1500-344-23-2, Cleaning and Corrosion Control, Volume 2, Aircraft. This can also be found in EM 0151 and 0053. Chapter 2 of that publication deals with cleaning and lubrication, and Chapter 8 deals with preservation.

Under the topic of corrosion control, we turn our attention to Corrosion Preventive Compounds (CPCs). Compounds that meet the standards defined in MIL-PRF-81309 are considered ultra-thin film, water displacing CPCs and, according to this TM, should be used as a general-purpose CPC whenever a CPC “is called for but no specification is referenced.”

Based on dwell time, MIL-PRF-81309 CPCs provide indoor protection for approximately 30 days and outdoor protection for approximately 14 days. These CPCs should be reapplied as required.



There are a number of off-the-shelf products that meet the MIL-PRF-81309 specification, but only one has undergone testing by Breeze-Eastern to ensure that it does not interfere in any way with the tensioning system. The product is called “Corrosion X.” The manufacturer recommends applying Corrosion X to exposed gearing, level wind shafts, drum, cable guide, and roller housing assemblies during the 30-day Operational Check (when most of the drum will be exposed) and any time a cable is changed (when the entire drum will be exposed).

The compound should be applied by spraying onto surfaces and then evenly distributing with an acid brush or clean cloth. Care should be taken not to spray directly onto the adiprene tension roller. If that happens, simply wipe off the overspray or allow it to dry before use. Do not attempt to use the hoist with Corrosion X on the tension roller in a wet condition as this may interfere with the action of the tensioning system.

The familiar product “WD-40” is a water displacement compound but does not meet the dwell-time requirements of MIL-PRF-81309. However, it works great as a CPC for the hook assembly as long as it is applied more frequently.