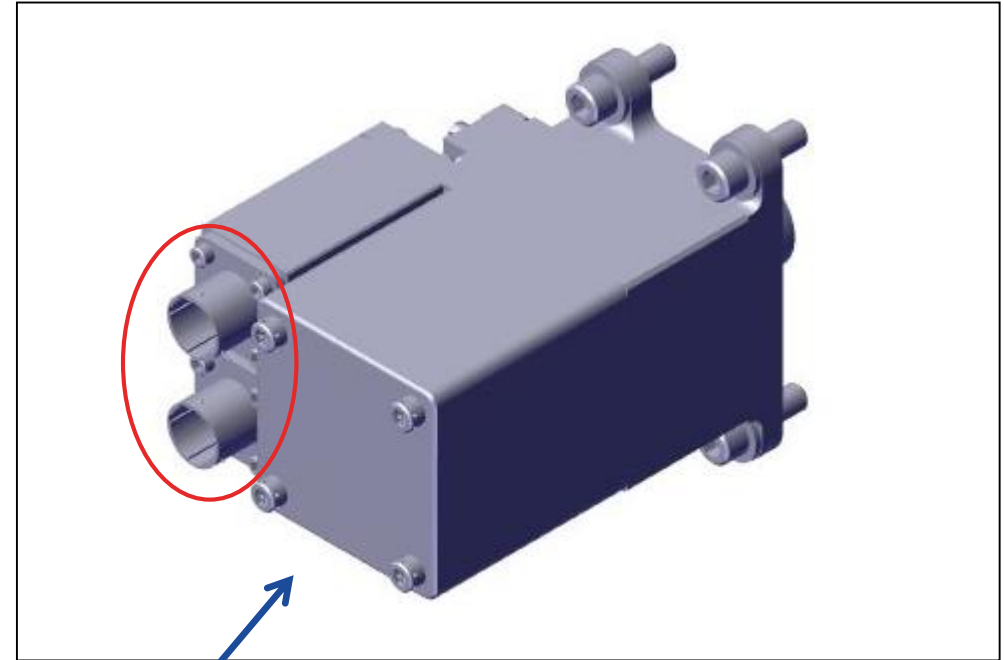

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RTW 2023

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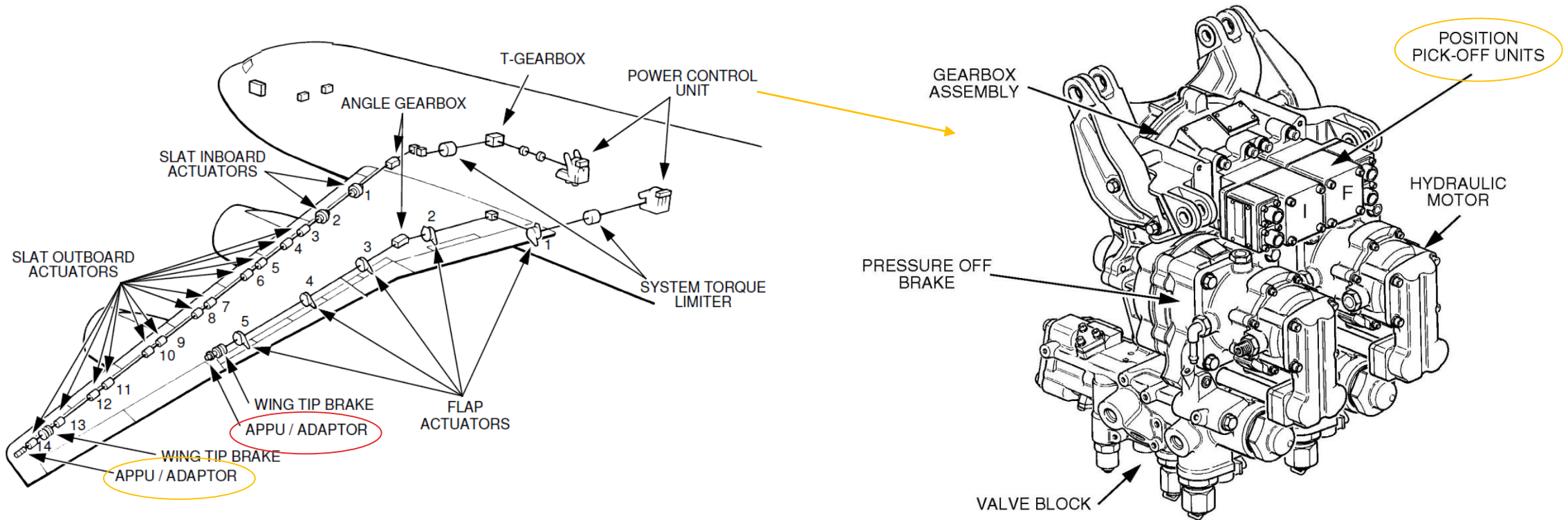
Liebherr - Aerospace

OVERVIEW

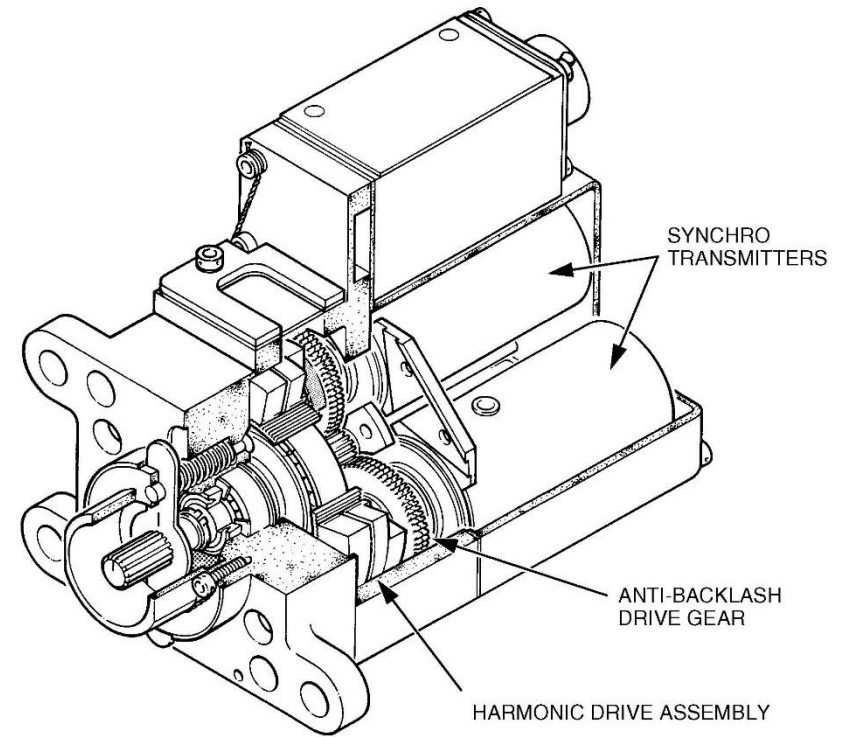
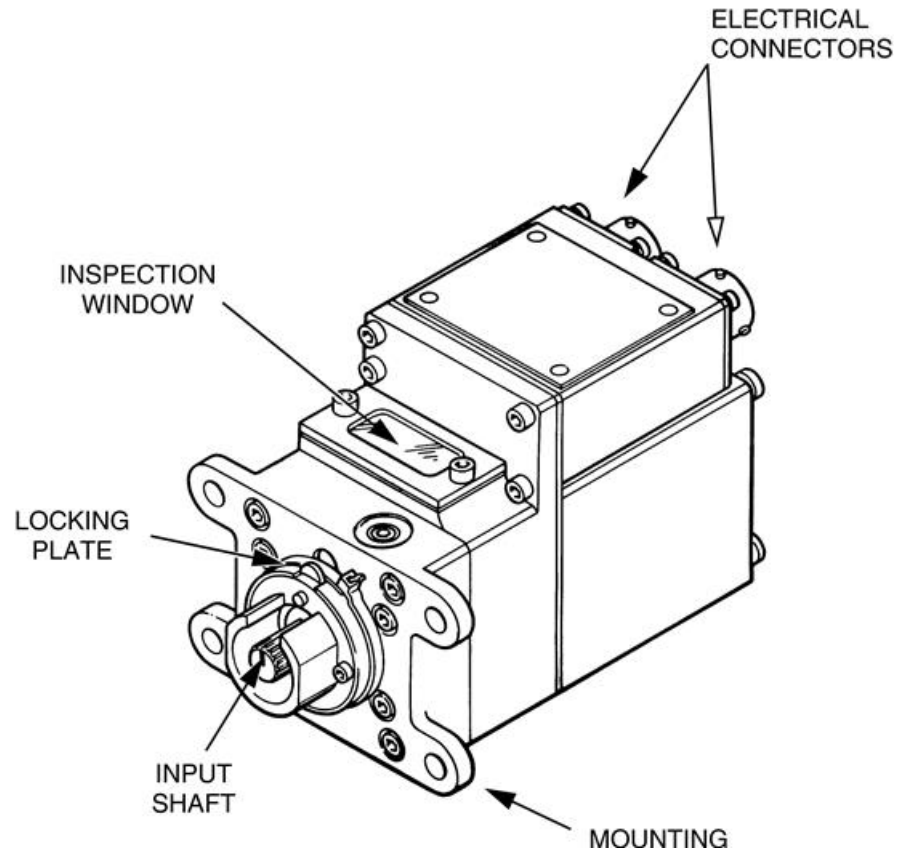


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OVERVIEW

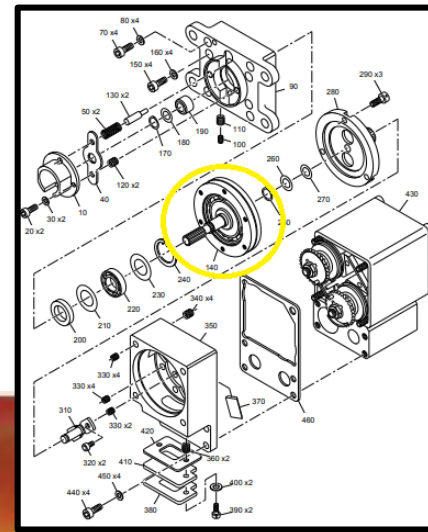
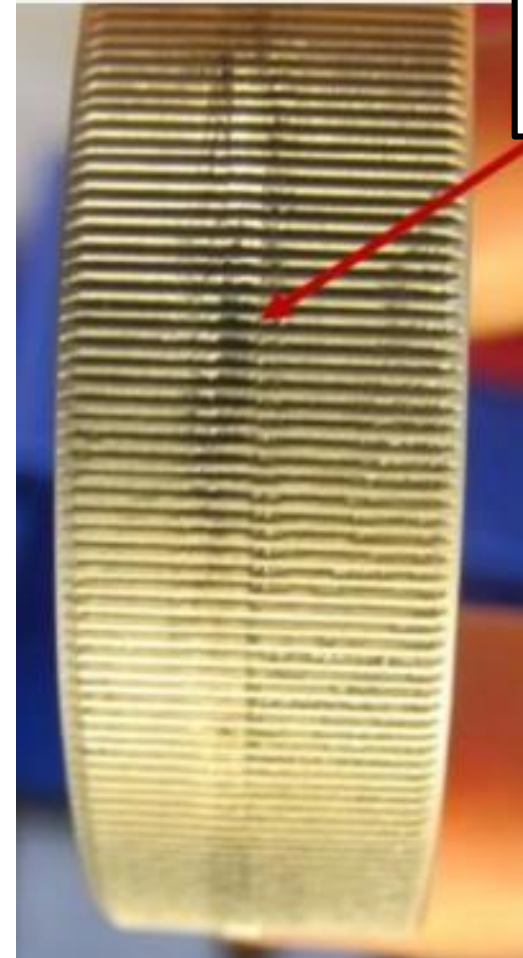


OVERVIEW



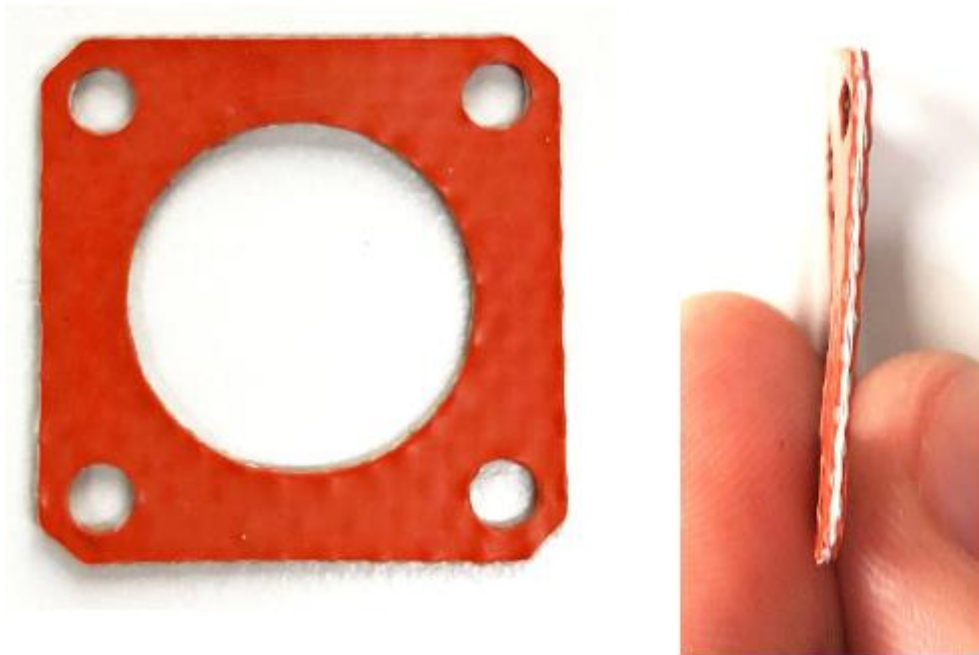
APPU – Ratcheting: Recap

- Flaps locked during approach on A/C delivered since DEC 2016
- ECAM warning F/CTL FLAPS LOCKED
- Root Cause:
 - Seal of (black anodized) connector insufficient
 - Low temp conditions: moisture inside harmonic drive freezes → ratcheting
 - Ratcheting causes offset between electrical vs. mechanical position → asymmetry

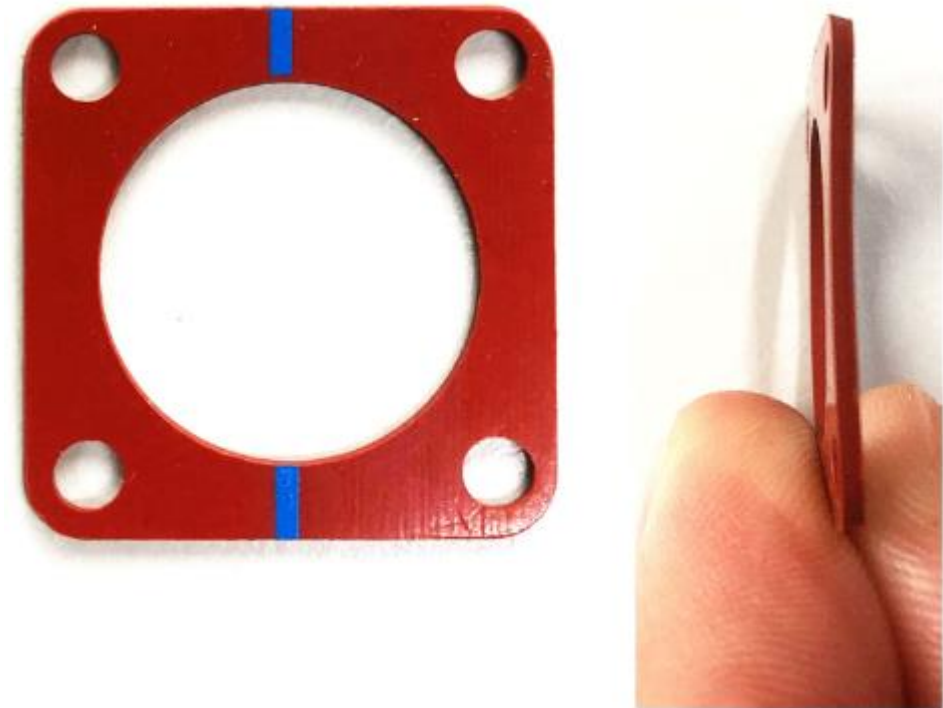


APPU - Ratcheting: Solution

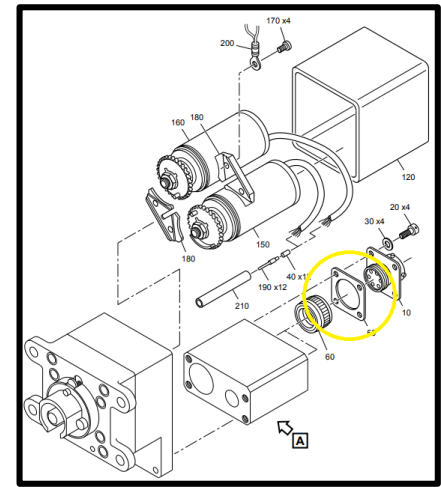
➤ Back to the roots!



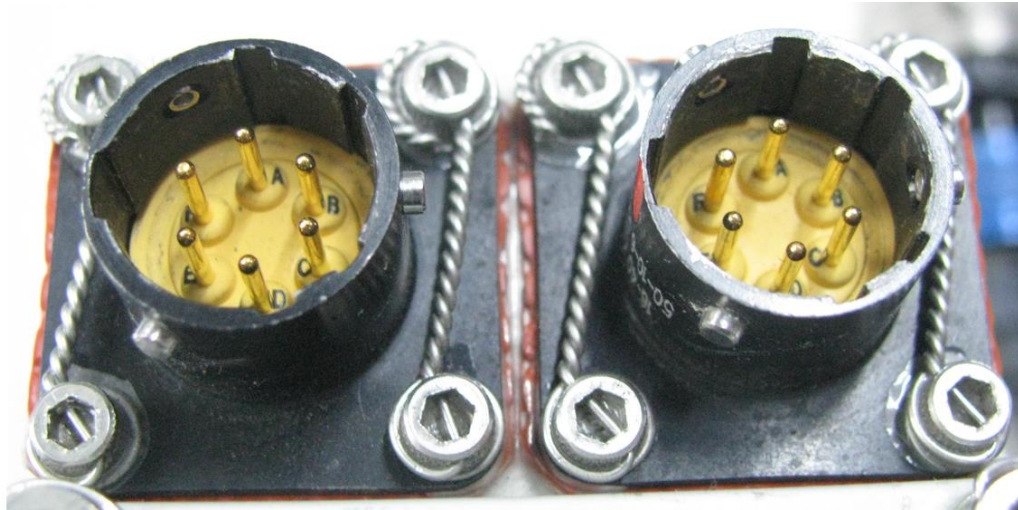
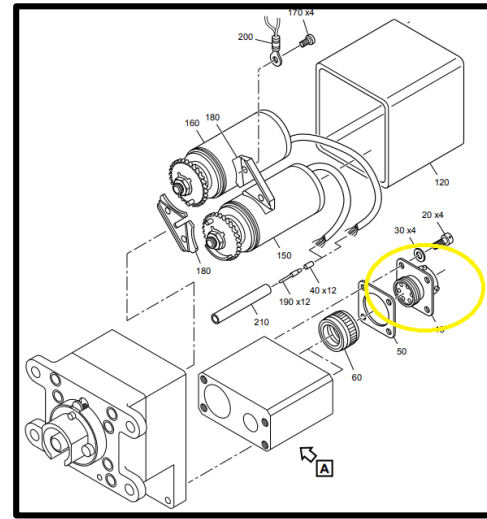
pre-mod connector gasket



post-mod connector gasket



APPU - Ratcheting: Solution



BLACK ANODIZED CONNECTOR
PNR: ASNE0053R10B6PW



NICKEL CONNECTOR
PNR: C23334Z3C7



TIMELINE

