

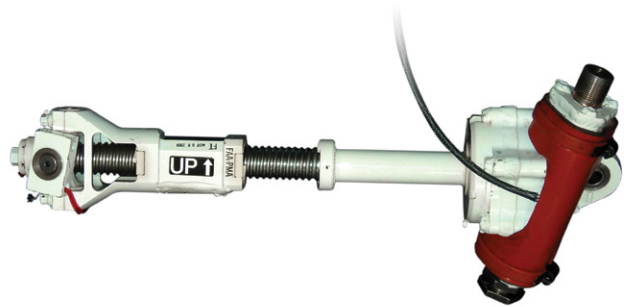
G16831-1 Flap actuator heating system

Reduce overall load on flap actuator system – The flap actuator system on the CRJ200 has been plagued by overloading due to cold temperatures. Airworthin Directives are costly and do not solve the root cause of system failures.

The Rockwell Collins system provides controlled heat to the actuator housing via a custom designed heater, increasing the operating temperature at lower ambient temperatures. This heater reduces system torque dramatically.

The system is controlled by a cockpit annunciator, turned on at the start of operation. The system automatically regulates itself in relation to measured ambient temperature.

Long-term plans include application to provide an alternate means of compliance (AMOC) to Airworthiness Directives 2009-06-12 (FAA) and CF-2007-10 (TCCA) regarding the failure of the flap system, which may result in some relief to the requirements of the subject Airworthiness Directives.



SPECIFICATIONS

Applicability	Manpower	Kit contents	Weight	Certification	Delivery
CRJ200 aircraft	Approximately 150 man-hours*	<ul style="list-style-type: none"> > 8 actuator heaters > Heater controller assembly > Replacement glareshield panel and annunciator > Wiring assembly and components 	Approximately 3.5 lbs. increase	<ul style="list-style-type: none"> > FAA: STO3032NY > Transport Canada: SA11-54 > EASA: STC Pending 	F.O.B. Winnipeg, Canada

FEATURES & BENEFITS

- > Reduces overall load on flap actuator system
- > Reduces chance of system overload, and flap failure events
- > Reduces temperature fluctuation of the actuator housing, the amount of air expansion/contraction, and the lubricant contamination

**Hours can vary greatly due to amount of available access to aircraft; installation during regular maintenance checks is recommended.*

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