



**Metroliners – Engine Control Cable
Replacement**

AWB 76-001 Issue : 1
Date : 12 September 2006

1. Applicability

Fairchild / Swearingen Metroliner Aircraft Models SA226 and SA227 – All variants.

2. Purpose

This AWB recommends replacement of old SA226 / SA227 engine throttle cables as these cables can suddenly fail due to ageing and fatigue, resulting in loss of engine control.

3. Background

CASA has received two Service Difficulty Reports (SDR) in 2005 and one SDR in 2006 reporting failure of throttle cables installed on SA 227 Metroliner aircraft. As a matter of luck, throttle cables failed while aircraft were on ground and safety was not jeopardized. Failure of engine control cables in flight may lead to loss of engine control which in turn may compromise the safety of aircraft and its occupants.

The common characteristics noted between reported events were:

- a) All the cables failed between power lever and cable joint, in the area near pedestal.
- b) None of the failures carried any warning / impending failure signs. These failures could not have been predicted.
- c) The service statistics for aircraft (and the cable) were:

Year of Occurrence	Aircraft hours total since new (TSN)	Aircraft cycles since new (CSN)	Make of the cable
2005	30,000	38,000	Teleflex
2005	24,000	38,000	Controlex
2006	23,000	36,000	Controlex

4. Recommendation

To avoid unanticipated loss of power during a critical phase in flight, CASA recommends replacement of engine power cables with more than 35,000 cycles since new (CSN) with new engine power cables.



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5. Service Difficulty Reporting Program

Failure of engine power cables and relevant details should be reported to CASA through SDR program available on the CASA website
<http://www.casa.gov.au/airworth/sdr/index.htm>

6. Enquiries

Enquiries about the content of this Airworthiness Bulletins should be made via the direct link e-mail address: AirworthinessBulletin@casa.gov.au

Or in writing, to:

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New Technologies Office,
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