Aviation Safety Investigation Report 199802824

Boeing Co B737

21 July 1998

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NOTE: All air safety occurrences reported to the ATSB are categorised and recorded. For a detailed explanation on Category definitions please refer to the ATSB website at www.atsb.gov.au.

<b>Occurrence Number:</b>	199802824	Occurrence Type	: Incident		
Location:	Alice Springs, Aerodrome	e			
State:	NT	Inv Category:	4		
Date:	Tuesday 21 July 1998				
Time:	1815 hours	Time Zone	CST		
Highest Injury Level: None					
Aircraft	Boeing Co				
Manufacturer:					
Aircraft Model:	737-377				
Aircraft Registration:	VH-CZJ			Serial	23662
				Number:	
Type of Operation:	Air Transport Domest Scheduled	ic High Capacity Pa	ssenger		
Damage to Aircraft:	Nil				
<b>Departure Point:</b>	Alice Springs NT				
<b>Departure Time:</b>					
Destination:	Unknown				

Approved for Release: Tuesday, August 18, 1998

When the copilot rotated the aircraft through 17 degrees on the way towards the lift off body angle of 19 degrees the stick shaker activated. Concurrent with the stick shaker activation, the leading edge flaps extend light on the forward panel extinguished and the amber leading edge flaps transit light illuminated.

As soon as the stick shaker activated the rotation was stopped. Almost immediately the leading edge flaps transit light extinguished, the leading edge flaps extend light illuminated, and the stick shaker stopped. The activation period was very brief and occurred at approximately 174 knots.

The takeoff and climb were continued normally and no other discrepancies were noted.

Maintenance investigation disclosed that one of the leading edge slat position micro switches had failed. The failure of the switch caused the logic system to sense that the leading edge slats were retracted rather than extended. This resulted in the stall warning system being reset and the stick shaker to activate at normal takeoff speeeds.

The operator advised that the manufacturer is considering a change that will ensure that failure of only one switch is insufficient to cause the system to be reset.