

Docket No. SA-533

Exhibit No. 2-MM

**NATIONAL TRANSPORTATION SAFETY BOARD**


**WASHINGTON, D.C.**

Excerpts from ATR 42 FCOM (Stall Alert and Activation)

(2 Pages)

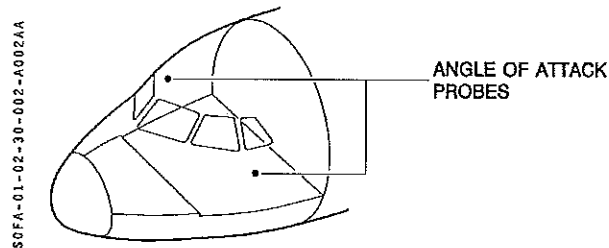
ATTACHMENT

38

 <b>ATR 42</b> <b>F.C.O.M.</b>	<b>CCAS</b>		1.02.30	
			P 2	002
	OPERATION		US	MAR 96

### STALL ALERT

To generate this alert (cricket and stick shaker), aircraft is fitted with two angle of attack probes, one on each side of the forward fuselage.



Angle of attack probe information is directly processed by CCAS.

Critical angle of attack detected by angle of attack probes leads to aural alert (cricket), stick shaker activation, and then stick pusher activation.

Aircraft critical angle of attack	
ALERT and STICK SHAKER ACTIVATION	STICK PUSHER ACTIVATION
12° 5	15°

When selecting horns anti-icing, the aircraft is protected by an earlier stall threshold as follows.

Aircraft critical angle of attack	
ALERT and STICK SHAKER ACTIVATION	STICK PUSHER ACTIVATION
7° 5	15°

Notes : – During and after Take-off the ICING AOA stall alert threshold is initially 8,5° and change over to EN route values occurs, when 5 mn have elapsed after lift off or flaps are retracted to 0 whichever occurs first.

- Stall alarm and stick shaker activation are inhibited when aircraft is on the ground
- Stick pusher activation is inhibited when aircraft is on ground and during 10 seconds after lift off.