LOGANAIR

OPERATIONS MANUAL

SHORTS SD3-60

FLYING

Part 9

9.5.0 ATRCRAFT CHECKLISTS

9.5.4 First Flight Checks

ALL PROP FUNCTION CHECKS MUST BE CARRIED OUT INTO WIND ± 45°.

Auto-Feather Test

CHECKED

Power Levers

Flight Idle

Prop Levers

Taxi

Auto Feather

Test and hold

Check Auto Feather EI's L & R on and Anti-Ice Vanes running: Prop RPM decrease significantly and hunt.

Auto Feather

Release

Check conditions revert to pre-test.

Note: If torque too high, select Air Conditioning to achieve test.

Figure 1 Checklists - First Flight Checks - Autofeather Test

After Start	
Hydraulics	Check
Start master	Normal
Ignition	Off
Electrical Master	Internal
Generators	On
Shedding Bus L & R	Normal
External Supply	Removed
EI's	Vertical
EHSI CB's	Internal
Emergency Light Switch	Arm
Avionics Master	On
Flaps	Set & Checked
De-Ice Boots	Check
Warning Lights	Control & Pitot
Altimeters	Check, Set QNH
GPU	Clear

Taxi	
Emergency Brake	Off
Taxi Light	On
Brakes	Check
Trims	Set
Flaps	Set
Fuel	Check
Electrics	Check
Anti-Icing	On
Reserve Power	Arm
Oil T's & P's	Check
Harnesses	Locked
Flight Instruments	Checked
Flight Systems	Set
Bug Speeds	Set
Take Off Brief	Review
Cabin Attd's Report	Received
Engine Checks	As Required
ATC Clearance	Received
Transponder	Set

Entering Runway	7
Attendant's Call	Press Twice
Air Conditioning	Off
Flying Controls	Unlock
FDR	DDI
Strobes	On

Take Off (From Men	nory)
Landing Lights	On
Power Levers	Flight Idle
Prop Levers	Max
Fuel levers	Flight
Stop Watch	Run
Igniters	A/R

Gear	Up
Flaps	Up
Stall Warning Heaters	On
Reserve Power	Off
Igniters	Off
Landing & Taxi Light	Off
Cabin Signs	As Required
Air Conditioning	As Required

SHORTS SD360 PRE DEPARTURE AND SERVICE INSPECTION

	SECTION	NO.	DESCRIPTION
F.	L/H POWERPLANT INCLUDING NACELLE	*1	Inspect power plant cowlings for general condition and damage. Special attention to:-
	the first base of the graphs	#2	Security of latches
		+3	Air intakes - blanks removed
		***	Fire bottle thermal discharge indicators - check that four green pressure relief discs have not been expelled
		*5	Excessive fluid leakage
		*6	Pan drains for fluid leakage
		*7	Freedom from snow/frost - deice as required annotate tech. log page

	BECTION	NO	DESCRIPTION
L.	R/H POWER PLANT INCLUDING NACELLES	*1	Inspect power plant cowlings for general condition and damage. Special attention to:-
		*2	Security of latches
		*3	Air intakes - blanks removed
			Fire bottle thermal discharge indicators. Check that four green pressure relief discs have not been expelled
		5	Excessive fluid leakage
		*6	Pan drains for fluid leakage
		*7	Freedom from snow/frost - deice as required annotate tech log page.

Figure 3 Checklists – Pre Departure and Service Inspection

OPERATIONS MANUAL

SHORTS SD3-60 FLYING

Part 9

9.4.0 Aircraft Handling

9.4.2 Ground Handling

PARKING

When parked, the aircraft will require protection against prevailing weather and climatic conditions. The extent of the protection required will depend on the duration of parking and local conditions, but the following instructions must be carried out.

A. Parking Procedure

- (1) Position the aircraft and centralise the nosewheel.
- (2) Fit all three ground locking (Gear) Pins. (See Fig 1).

Note: Main gear pins must be removed before the aircraft is loaded (pax or freight) as compression of the suspension causes the mainwheel tyre to obstruct the pin removal.

- (3) Chock the main wheels, fore and aft.
- (4) Ensure the flight control gust lock is engaged.
- (5) Apply the parking and emergency brakes.
- (6) Fit and secure propeller strops. (See Figure 5).

WARNING: On no account are propellers to be moored to ground anchorage.

- (7) Close all doors and windows.
- (8) Engine covers and bungs should be fitted if available. (See Figure 2).

<u>WARNING</u>: All covers and bungs should be prominently pennented to ensure that they are not overlooked during take-off preparations.

<u>PRECAUTION:</u> If the wind is stronger than 30 knots the aircraft should be hangared or moored.

Figure 4a Aircraft Handling – Ground Handling – Parking Procedure

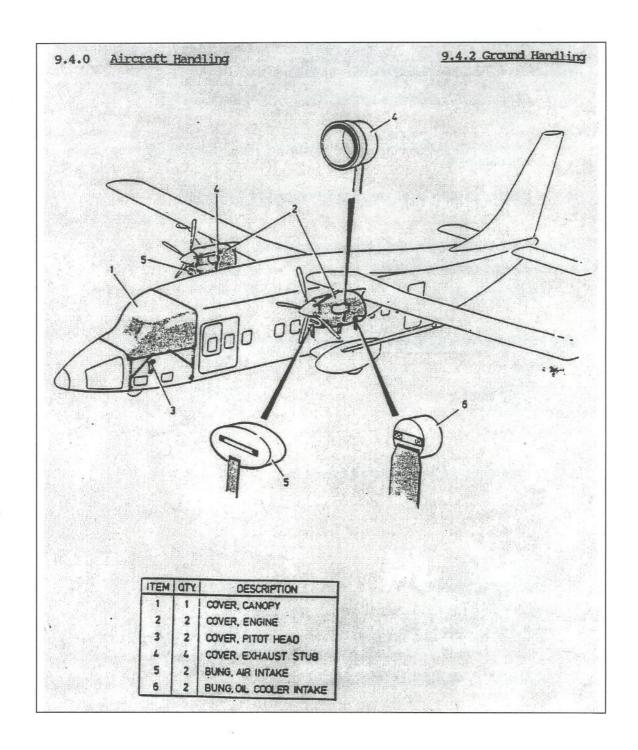


Figure 4b Aircraft Handling – Ground Handling – Equipment

				1 2
		GANAIR	SHORTS SD3-60 QUICK REFERENCE HANDBOOK	2/12
	NOR	MAL ENGINE F	ELIGHTING - NOTE	S
	(1)	When Power Le	ever selepted to Idle, Ge	ear Warning Horn will
•	(2)	Propeller will ur on failed side.	feather in approx 30 se	econds. Drag will increase
	(3)	Start procedure	is the same as for norm	mal ground start.
	If fue	contamination	or blockage is susper	cted:
	> Bo	oster Pump (Fail	ed Side)	LEAVE OFF

	ABOR	RT START PROC	EDURE / ENGINE FAI	LS TO START
1.	• Fu	el Lever	, ************************************	OFF
t	· Pr	opeller Lever	******************	FEATHER

	• Igr	nition Switch	***************************************	OFF
	STAR	T LIGHT REMAIL	NS ON ABOVE 50%ng	
	· St	art Switch		STOP
	• Igr	nition	***********************	OFF
			**********	The state of the s
	If light	remains ON		
	> Ge	enerator (Affected	Side).,	OFF
			e)	
63				CHECK TRANSFER
	Do not	couple busbars	or use battery or genera	ator on affected side.
	See D	C'Busbar Fallure	Drill - Page 4 / 13.	

Figure 5a Quick Reference Handbook – Normal Engine Relighting

SHORTS SD3-60 2/13 LOGANAIR QUICK REFERENCE NORMAL ENGINE RELIGHTING Altitude BELOW 20,000 FT L.P. ValveOPEN (Note 1) Propeller LeverTAXI RPM (Note 2) Shedding Bus Switches (L & R)EMERGENCY Anti-ice Vane (Failed Engine)OFF Start Master SwitchARMED Booster Pump SwitchON (See Note Opposite) Start SwitchSTART (Note 3) Ignition Switch (N, above 10%),.....NORMAL 'Light Up'WITHIN 10 SECS ITTMONITOR (1000°C - 5secs) Start and Ignition LightsOUT (above 50% No.) N_g70 – 72% Hydraulic Pump Inlet ValveOPEN Fuel LeverFLIGHT Prop Lever SET AS REQD Power Lever..... SET AS REQD Flaps SET AS REQD SUBSEQUENT'ACTIONS OVER-LEAF - PAGE 02 / 15

Figure 5b Quick Reference Handbook - Normal Engine Relighting

Part 9

9.7.0 ADVERSE WEATHER CONDITIONS

9.7.6 De-Icing and Anti-Icing

- 9.7.6.1 (a) Anti-icing refers to the preventive treatment applied to aircraft surfaces to prevent accumulation of snow or ice; de-icing refers to the removal of contamination already on the aircraft.
 - (b) Snow, frost and ice adhering to aircraft surfaces will dangerously, even fatally, diminish the flying capability of an aircraft. The weight of such adhesions is less significant than the destruction of the aerodynamic shape. It is the captain's responsibility to ensure that his aircraft is free form all deposits of frost, ice or snow before take-off and to adhere to the instructions in the aircraft manual concerning the use of anti and de-icing equipment when icing conditions are encountered in flight.

Should any doubt arise regarding the necessity of anti or de-icing the aircraft captain's judgement is decisive and his instructions must be followed.

- (c) Ice may appear on aircraft surfaces when an aircraft is parked outside in humid weather with a fall in temperature to 0°C or below. Propeller icing may occur during engine ground runs in humid air close to 0°C. Frost may coat only the upper surfaces of an aircraft parked in the open when air temperatures fall to 0°C overnight. Ice may form on an aircraft towed into freezing air from a heated hangar. Refuelling may melt snow on the wings of fuselage and cause the formation of layer of ice under an upper layer of snow. Pilots should anticipate these less obvious instances of ice formation and be prepared to order de-icing in good time to meet operational requirements.
- (d) Should the captain decide to de-ice the aircraft the following guidelines are to be followed:-
 - 1. The aircraft should be sprayed symmetrically.
 - Fuselage tops sides and under surfaces should be thoroughly treated to avoid run-off and refreezing.
 - All anti or de-icing operations must be carried out under the supervision of an engineer.
 - Kilfrost ABC, ABC-S or Aeroshell Compound 06A is to be used for anti-icing.
 - Kilfrost ABC fluid is to be diluted with water and applied at a temperature of between 90°C and 95°C for de-icing.
 - 6. De-icing should be completed as close to departure time as possible. Should it be necessary to prepare the aircraft some time before departure then it may be necessary to respray immediately before taxying.

Part 9 9.7.6 De-Icing and Anti-Icing ADVERSE WEATHER CONDITIONS (d) contd.. 9.7.6.1 Before spraying ensure that all aircraft doors and windows are closed. Accumulations of loose snow or slush may be removed by sweeping with a soft brush before spraying is started. Care must be exercised to prevent brushed snow or slush from entering intakes, control surface gaps or seals. All engine blanks, pitot covers and air conditioning 9. intake blanks should be in position. Avoid spraying directly onto fuel tank vents, 10. propellers, windows, stall warning vanes and brake Engines must not be operated during de or anti-icing. 11. Particular attention should be given to de-icing doors 12. and emergency exits. After treatment the nose of the aircraft should be 13. wiped down to prevent excess fluid from blowing back onto cockpit windows. Passenger windows should also be cleared if time permits.

Figure 6 Procedures – Adverse Weather Conditions (part 2)

Part 9

9.5.0 ATRCRAFT CHECKLISTS

9.5.2 Expanded Normal Checklist

PRE-START CHECKS contd.

Anti-Ice Panel
Ice spotlight switch
Ice detector switch
Anti-ice vane switches

Intake heat switches Propeller heat switches Wings and tail bleed

Timer switch

Windshield heat switches

Pitot/Static heater switches

CHECKED & OFF

Off Off

On. Check Normal disappears and Anti Ice appears after 20 secs then Off

On. Check EI then Off. On. Check EI then Off.

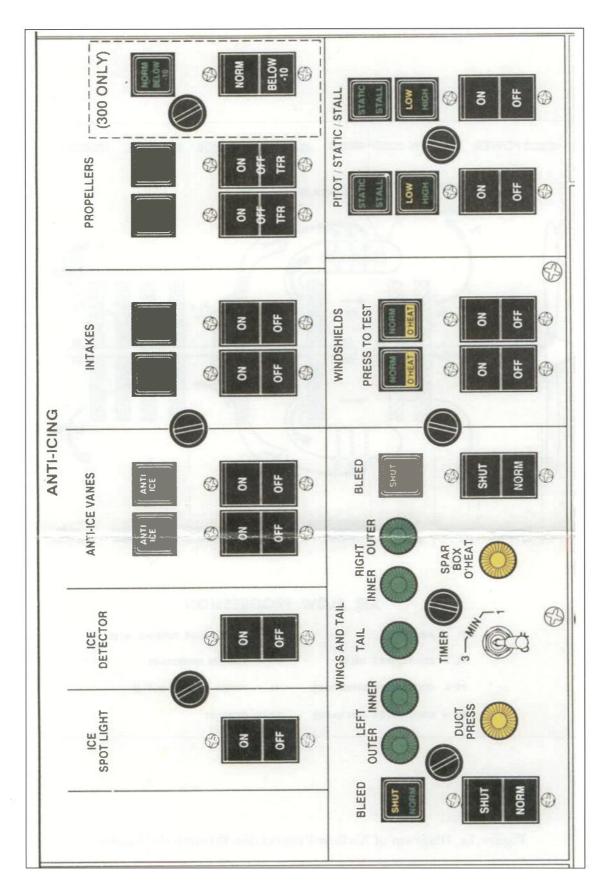
Norm.

On. Check EI Norm. When caption goes

out press EI and check EI display

O'Heat then Off.

On. Check pitot warning lights out, Static and Stall caption on EI, Low on stall warning heater EI then off.



Appendix 2 Diagram of Overhead Anti-Icing Panel

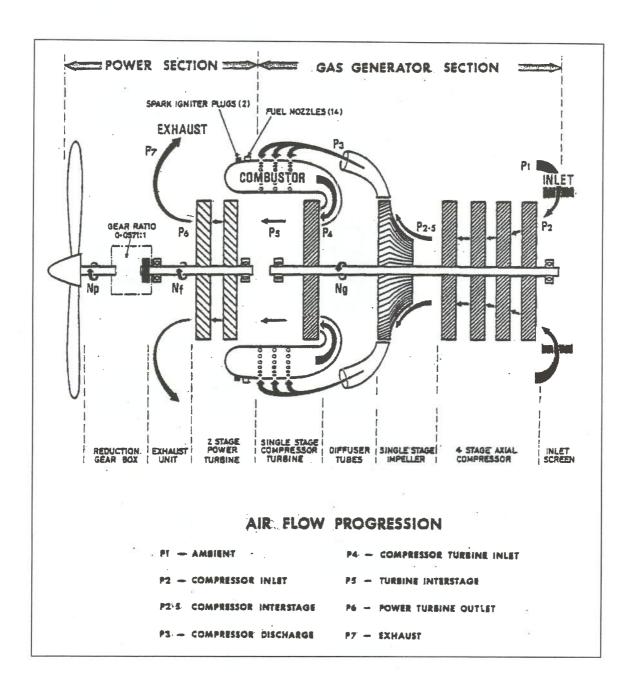
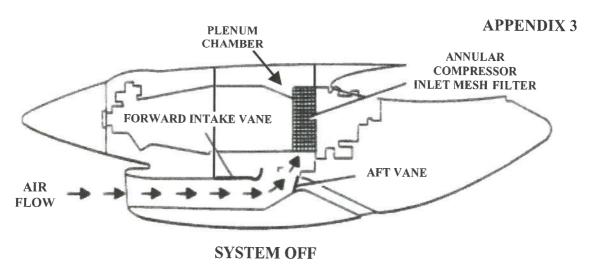


Figure 1a Diagram of Airflow Progression through the Engine

MAIN GAS FLOW THROUGH ENGINE

Appendix 3, Figure 1b Main Gas Flow Through Engine



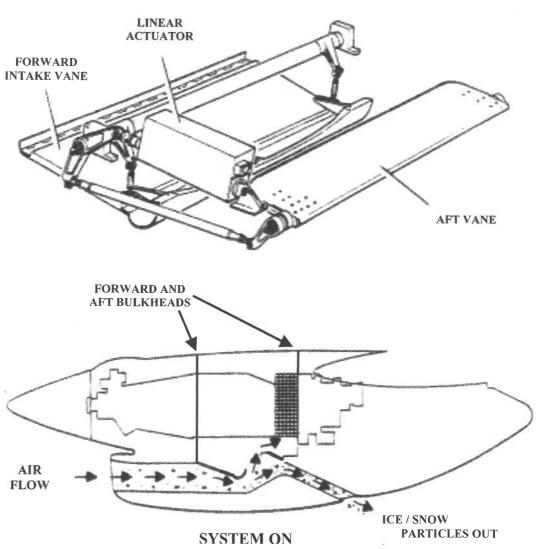


Figure 2 Cross-Section of Engine Nacelle Showing Intake Inertial Anti-Ice Vane System

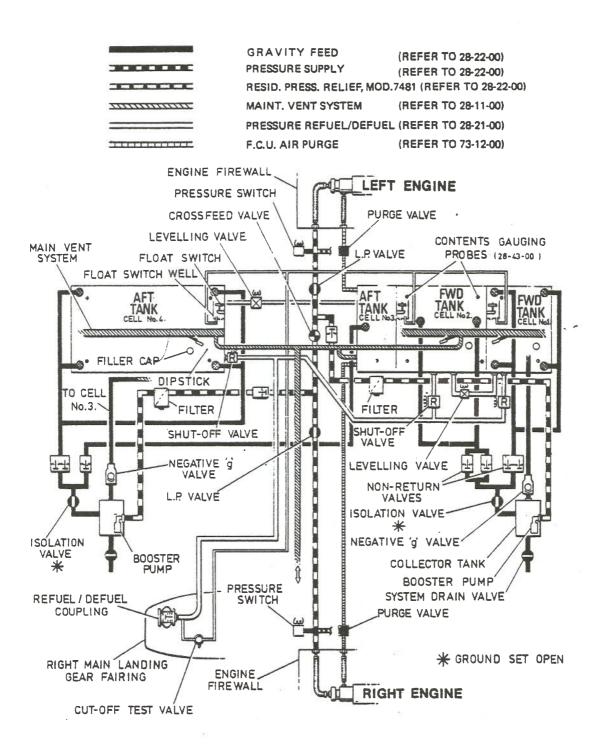


Figure 3 Shorts SD3-60 Fuel System Schematic

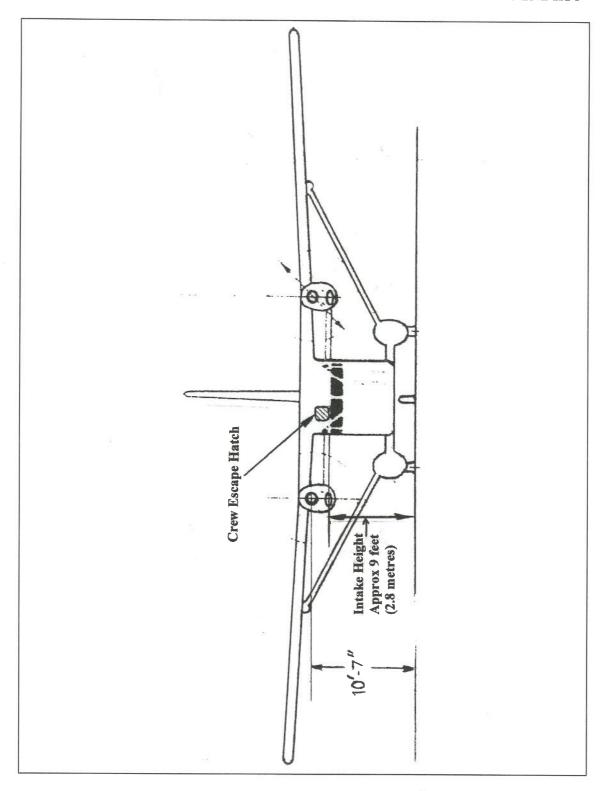


Figure 4 Shorts SD3-60 Intake Arrangement and Location of Crew Emergency Escape Hatch

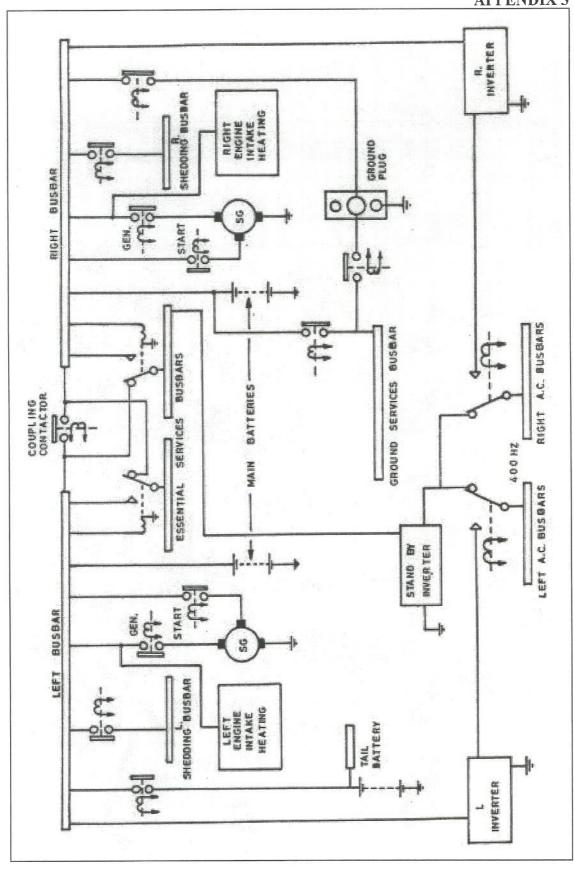


Figure 5 Shorts SD3-60 Electrical System Schematic

ırks		IK IK	i,					Z	Z	Z				z	z				z	z
Remarks		REGR	REGR					RESN	RESN	RESN				RESN	RESN				RESN	RESN
ONH	(mb)	993	993	993	994	994	994	994	995	995	995	966	966	966	266	266	266	866	866	666
Temp/	Dewpoint (°C)	01/M00	01/M00	00/M00	00/M00	00/M00	00/M00	00/M00	00/M01	M00/M00	M00/M01	M01/M01	M01/M01	M01/M02	M00/M02	M00/M02	M00/M02	00/M03	00/M03	01/M03
		FEW008 BKN010 BKN016		BKN008		BKN008			FEW004 BKN009 BKN014					BKN018		BKN024	BKN022	BKN035		
Cloud		BKN010	BKN010	SCT007	SCT006	SCT005	BKN009	BKN009	BKN009					SCT012	SCT016	SCT018	SCT010	SCT026	BKN030	BKN035
		FEW008	FEW005 BKN010	FEW004 SCT007	SCT004	SCT004 SCT005	FEW004 BKN009	FEW004 BKN009	FEW004	////A	////A	////A	////A	FEW007	FEW010	FEW012	FEW008	FEW009	FEW007	FEW007
Wx		NS-	-SN	NS-	SN	SN	SN	NS-	NS-	NS-	SN	SN	SN	NS-	NS-	NS-	NS-	SG	-SHSN	-SHSN
IRVR	(m)				24/1300	24/1200	240900		24/1000	1500 24/1100	24/0650	24/0550	24/P1500	24/1000						
 K	T)				06/1000	06/1000	06/1300		06/1300	06/P1500	0080/90	0060/90	06/1200	06/1200						
vis	(m)	4100	1900	1600	1100	800	1100	2100	1300	700	500	009	800	1000	2100	4700	3800	6666	6666	6666
Wind	(kt)	04023G36	03024G37	03024G37	03020	04024G37	04022G32	04023G33	04020G31	1	04021G31	04020G31	04020G30	04023G34	04022G35	03021G38	04021	03020G33	03019G30	03020
Time		0020	0020	0120	0150	0220	0250	0320	0350	0420	0450	0520	0550	0620	0650	0720	0750	0820	0920	0920
OBS		MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT

APPENDIX 4, Figure 1 Automated Meteorological Records - Edinburgh Airport - 27 February 2001. (Page 1 of 2)

S						T		Т				Т	П				
Remarks			RERA	RERA													
ONH	(qm)		666	666	1000	1000	1000	1000	1000	1001	1001	1001	1001	1002	1002	1002	1002
Temp/	Dewpoint	(°C)	01/M03	01/M03	02/M03	02/M03	02/M03	02/M03	02/M03	02/M03	02/M03	02/M03	02/M04	02/M04	02/M03	02/M03	02/M03
Cloud					SCT080	BKN080					BKN080	BKN070		BKN070	BKN080	BKN080	BKN080
			BKN035	BKN045	FEW035	FEW040	FEW035	FEW035	FEW035	FEW090	FEW040	SCT040	BKN070	FEW040	FEW040	SCT040	SCT045
Wx																	
IRVR	(m)													G.			
vis	(m)		6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666
Wind	(kt)	i.	03017	03020G32	03019	03017	03017G29	03016	03017	03017G27	03017	03016	03017	03016	03017	03017G27	03016
Time			1020	1050	1120	1150	1220	1250	1320	1350	1420	1450	1520	1550	1620	1650	1720
OBS			MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT

APPENDIX 4, Figure 1 Automated Meteorological Records - Edinburgh Airport - 27 February 2001. (Page 2 of 2)

Time (UTC)	0020	0020	0120	0150	0220	0250	0320	0320	0450	0450	0520	0550	0620	0650	0720	0220	0850
Wind Direction (degM)	040	030	030	030	040	040	040	040	XXX	040	040	040	040	040	030	040	030
Mean Wind (kt)	23	24	24	20	24	22	23	20	XX	21	20	20	23	22	21	2.1	20
Gust Wind (kt)	36	37	37		37	32	33	3.1		31	3.1	30	34	35	38		33
Visibility (metres)	4,100	1,900	1,600	1,100	800	1,100	2,100	1,300	700	200	009	800	1,000	2,100	4,700	3,800	10,000
INVN NW24 (metres)				1,300	1,200	006		1,000	1,100	650	220	1,500	1,000				
Moderate Snow																	
Light Snow																	Ī
Snow Grains																	on the same
Recent Rain																	
No Precipitation																	
Temperature (degC)	-	-	0	0	0	0	0	0	0	0	7	-	7	0	0	c	0
Dew Point (degC)	0	0	0	0	0	0	0	-1	0	-1	+	-1	-2	-2	-5	, 7	, e,
Time (UTC)	0920	0980	1020	1050	1120	1150	1220	1250	1320	1350	1420	1450	1520	1550	1620	1650	1720
Wind Direction (degM)	030	030	030	030	030	030	030	030	030	030	030	030	030	030	030	030	030
Mean Wind (kt)	19	20	17	20	6	17	17	9	17	17	17	9	17	9 6	17	17	S "
Gust Wind (kt)	30			32			29			27	:	2	:	2	:	27	2
Visibility (metres) IRVR RW24 (metres)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Light Snow																	
Snow Grains																	
Light Snow Showers																	
Recent Rain No Precipitation																	
Temperature (degC) Dew Point (degC)	o °.	- ن	٠ ٠	د ن	ر د د	ر ب.	۶ ۳.	ر د د	ଧ ଙ୍	ଧ ଦ	7 %	رم بن	2 -4-	2 -4	2 %	ر د د	4 °
					all a second												

APPENDIX 4, Figure 2 Graphical Presentation of Recorded Weather Observations

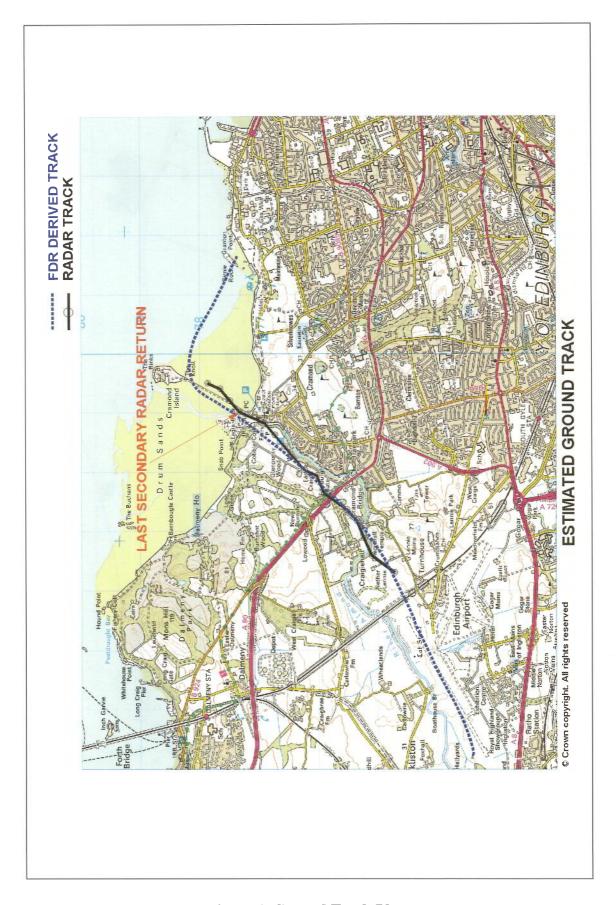


Figure 1 Ground Track Plots

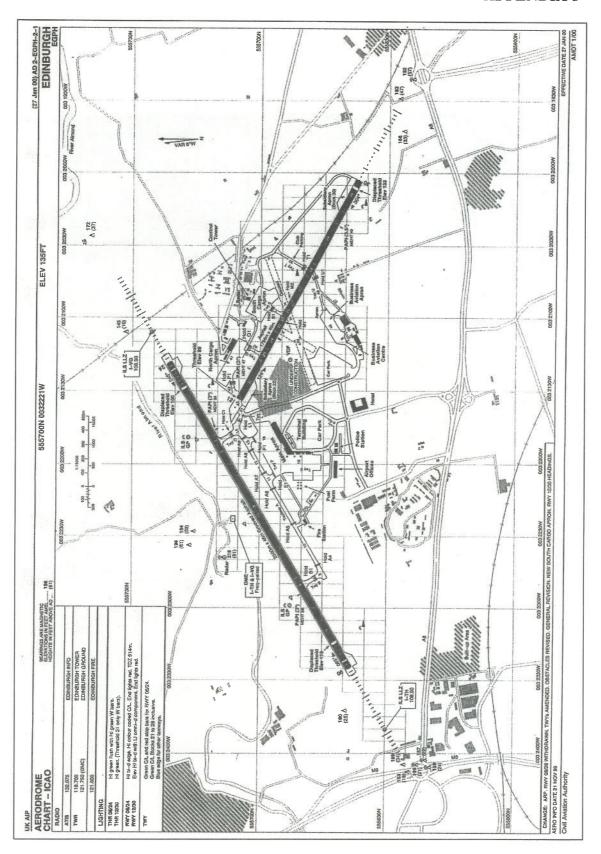


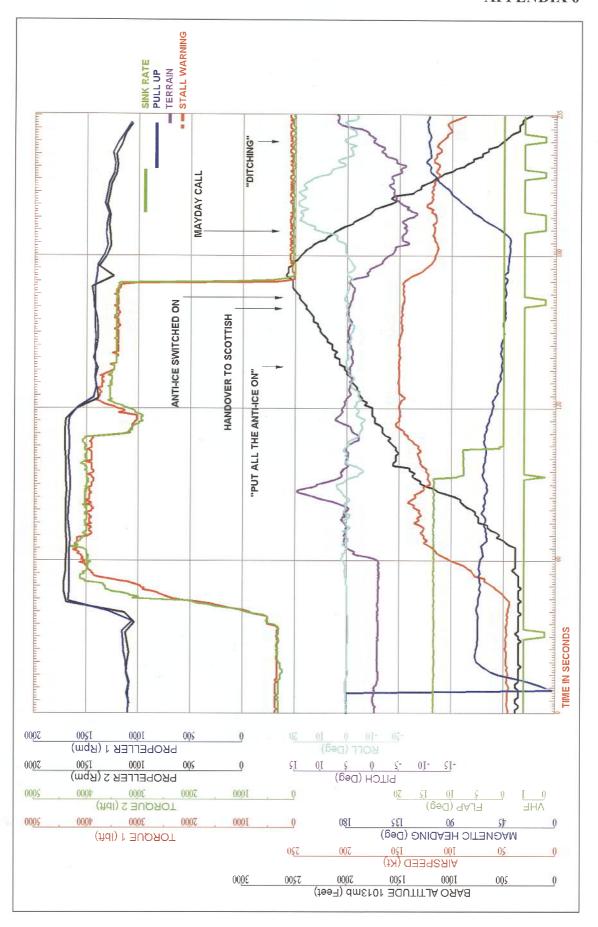
Figure 2 Edinburgh Airport Chart



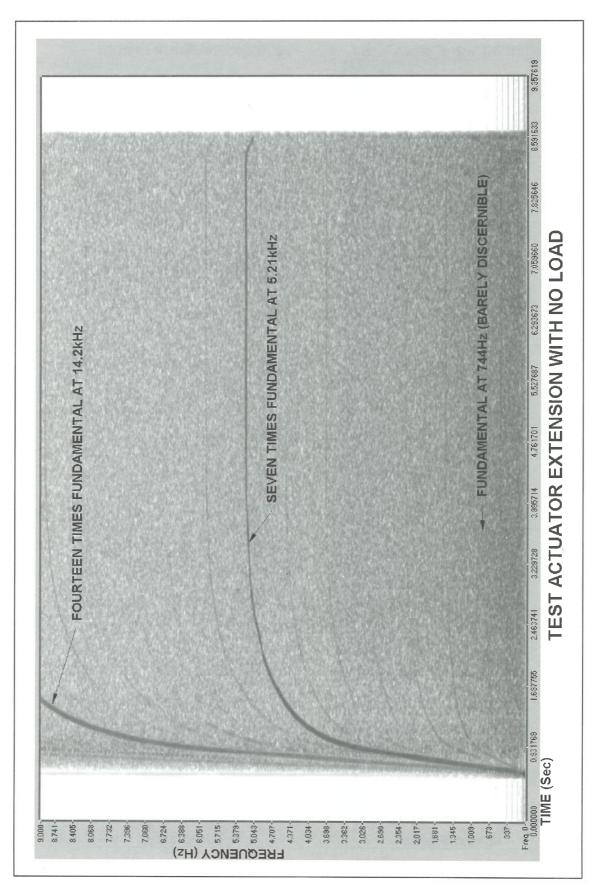




Figure 3 Snow Deposits in Engine Intakes of other Aircraft at Edinburgh during the morning of 27 February 2001



APPENDIX 6 Flight Data Recorder



APPENDIX 7 CVR Spectral Analysis — Test Actuator

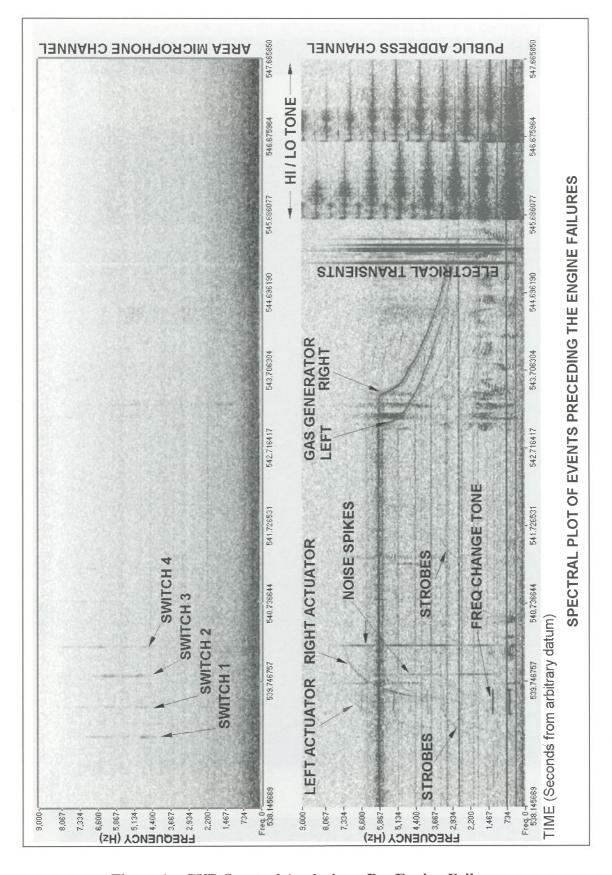


Figure 1 CVR Spectral Analysis — Pre Engine Failures

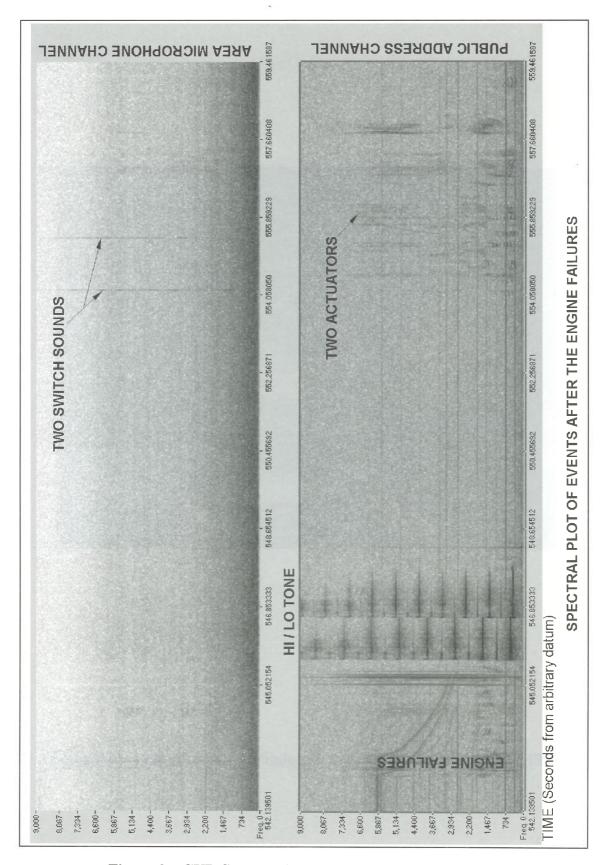


Figure 2 CVR Spectral Analysis — Post Engine Failures



APPENDIX 9 Engine Intake Flow Simulation — Test Rig Fan Arrangement

Manufacturer's All Operator Message Reference SD002/02 Issued 4 March 2002

Through the experience of one operator it has been discovered that failure to install engine intake covers/bungs when parked can allow ice/snow build up in the engine air intake, immediately ahead of the aft vane of the inertial separator and up into the upper plenum area. Heat generated during pre-flight engine running could cause any build-up of ice/snow in the upper plenum areas to melt and fall, creating an accumulation in the lower nacelle where, given the appropriate conditions of near or sub-zero temperatures it may re-freeze.

Simultaneous deployment of the inertial separator vanes onto this accumulated ice/snow could potentially cause a complete and simultaneous double engine power loss. (See note (1) below).

As a result the following procedures should be adopted where there is any doubt surrounding the proper installation of the intake covers/bungs (see note (2) below) in conjunction with the previous presence of either falling snow or sub-zero temperatures:-

Tactile inspections of the engine nacelle intakes must be completed;

Inspection of the intakes must be carried out using either a ladder or raised platform so that the interior of each intake, up to and including the aft vane of the inertial separator, is clearly visible.

A visual inspection of the intake from ground level may NOT identify ice or snow that has formed in the plenum (see Note (3) below). This area MUST be clear before flight, thus:

Presence of Snow/Ice Detected in the Intake

The engine upper access panels must be removed and all snow/ice deposits removed from the compressor intake plenum chamber and lower nacelle intake. Once the panel is replaced, intake bungs must be fitted until immediately prior to engine start and thereafter, Aircraft Flight Manual procedures followed.

Manufacturer's All Operator Message Reference SD002/02 Issued 4 March 2002

No Snow/Ice Detected in the Intake

The engines should be started and run for a minimum of 5 minutes with stabilised oil temperatures (warm up time can be reduced with selection of ground fine or reverse). The anti-ice vanes should be cycled at least twice on each engine throughout this period. Any snow/ice accumulation on the top of the intake mesh is likely to melt or be loosened by vibration and will either enter the engine or drip onto the lower intake and be expelled by operation of the anti-ice vanes. Since the intakes have already been verified as clear of snow/ice prior to the engine run, there should be no build up in the lower intakes likely to disrupt mass flow.

Notes

- (1) Deployment of anti-icing vanes at low engine power settings with ice/snow contamination present in the region of the bypass door is unlikely to cause adverse effect on engine operation.
- (2) Considerable material may have accumulated in plenum chambers during periods of falling snow before intake covers were fitted and may remain undetected therein after a lengthy period parked with covers/bungs in position.
- (3) Absence of ice/snow on the exterior of the aircraft or in the intake system is NOT a reliable guide to the presence or otherwise of contaminant in the plenum chamber(s).



Flight Operations Department, Aviation House, Gatwick Airport South, Gatwick West Sussex, RH6 0YR

17/2001

IN THIS ISSUE - WINTER OPERATIONS

- 1 DE/ANTI-ICING OF AIRCRAFT
- 2 SLUSH COVERED RUNWAYS FRICTION REPORTS
- 1 DE/ANTI-ICING OF AIRCRAFT
- 1.1 This Communication applies to both ground and flight operations.
- 1.1.1 JAR-OPS and CAP 360 both require operators to establish procedures for de-icing and anti-icing, to ensure aeroplanes are free from ice and snow. The inspection of the aeroplane, following de/anti-icing must ensure that neither degradation of engine performance, aerodynamic characteristics nor any mechanical interference by an accumulation of ice will occur, and that the airframe will remain free of ice for the appropriate holdover time.
- 1.1.2 The AEA (Association of European Airlines) publish a booklet annually, titled "Recommendations for De-icing/Anti-Icing of Aircraft on the Ground". The booklet incorporates definitions and holdover times that are acceptable to the Authority. Revision 15, which was published in September 2001, includes revised holdover times and additional information relating to new de-icing methods. The document may be viewed on the AEA website (www.aea.be and click on Special Publications).
- 1.1.3 An AIC (Pink) is about to be published to include the revised holdover times, and additional information from the following sources;
 - JAA Administrative & Guidance Material Section Four: Operations, Part Three: Temporary Guidance Leaflet 4 "Proposed AMC OPS 1.345 Ice and Other Contaminants Procedures".
 JAA Operational Directive OST 01-3 "Use of thickened de-icing/anti-icing fluid".
 CAA experience from incidents including ice and snow accretion in engine intakes of turbo-prop and low by-pass engined aircraft.
- 1.1.4 Following a fatal accident to one UK registered aircraft and a serious incident to another, a recent Specific Objective Check (SOC 1/2001) was completed to review the manner in which operators address the hazards associated with ice and snow accretion in the air intakes of turbo-prop and low by-pass turbine engines. Analysis of the reports identified that, in some cases, a number of safety-

related issues exist, which should be considered by all operators. These are as follows:

- Operations Manual and Maintenance Management Exposition procedures for de/anti-icing and winter ground handling were inadequate. Operators should review their Operations Manual and Maintenance Management Exposition and amend as necessary to include:
 - Who is responsible for the de/anti-icing of the aircraft;
 - Specific procedures for removal of contaminants from engine intakes, other intakes and undercarriage;
 - 3. Fitting/removal of blanks to engine intakes, and other intakes;
 - Type specific de/anti-icing procedures;
 - 5. Operational guidance on the precautions to be taken when aircraft are moved from a heated hanger to sub-zero conditions; and
 - Instructions relating to the removal of snow and ice from engine and other intakes should be developed.

FLIGHT OPERATIONS DEPARTMENT COMMUNICATION - 17/2001

П	should be allocated to deliver a meaningful syllabus, and the training/competence of contracted organisation staff should also be considered. Ground de/anti-icing procedures should be covered during type related initial and recurrent training of flight and ground crew.
	The procedure for selection of engine de/anti-icing in flight should be reviewed with the support of engine/airframe manufacturers where necessary.
	Flight Safety Programmes fail to highlight winter operations issues to the operators' personnel and contracted organisations' staff. A Flight Safety Programme would be most effective if completed immediately prior to the onset of winter.
	Quality systems should be improved to address de/anti-icing and winter ground handling standards, and must include contracted organisations.
	Ground handling contracts do not include sufficient operator or aircraft type specific information and the transfer of responsibility for snow and ice precautions, between ground staff and flight crew, needs to be clarified.
	Access equipment for intake inspections is not readily available.

- 1.1.5 Operators should therefore review their standards in each of the areas detailed above, and ensure that the revised holdover times are implemented in their Operational documentation.
- 1.1.6 The CAA is grateful for the operators' full and frank contribution to the Special Objective Check, which has resulted in the foregoing recommendations.

2 SLUSH COVERED RUNWAYS FRICTION REPORTS

- 2.1.1 Flight Operations Department Communication (FODCOM) 2/98 gave information regarding operations from runways contaminated by slush. It stated that under certain circumstances an unofficial friction co-efficient would be passed to pilots upon request. This will no longer be the case.
- 2.1.2 The Authority is aware that the runway friction measuring machines currently available do not give a reliably accurate reading in conditions of slush or thin deposits of wet snow. Accordingly, a Notice to Aerodrome Licence Holders (NOTAL 1/99) and an amendment to the Manual of Air Traffic Services have been produced. These state that in conditions of slush, pilots shall be informed that measurements of co-efficients of friction are unreliable and, consequently, braking action assessments are not available. Unofficial readings will not be given.
- 2.1.3 The above practice will continue to place the responsibility upon pilots to decide whether to operate in such conditions. AIC 61/1999 (Pink 195) gives guidance on operations from contaminated runways.
- 2.1.4 FODCOM 2/98 Item 3 Slush Covered Runways Friction Reports. This item is now cancelled.

Captain D J Chapman Head Flight Operations Department 20 October 2001

Recipients of new FODCOMs are asked to ensure that these are copied to their 'in house' or contracted maintenance organisation, to relevant outside contractors, and to all members of their staff who could have an interest in the information or who need to take appropriate action in response to this Communication.