

canadair challenger

AIRPLANE FLIGHT MANUAL

RAG-600-101 Issue 2

**MODEL CL-600-1A11
[WINGLETS]**

41,250 lb MTOW & 41,100 lb MTOW

This airplane must be operated in compliance with the
LIMITATIONS prescribed herein.

CANADAIR LIMITED

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CANADA H3C 3G9**

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PRODUCT SUPPORT PUBLICATION NO. 600-1 (US)

LOG OF REVISIONS

The Airplane Flight Manual is valid only when all the issued revisions are incorporated. Insert each revision, as issued, and record incorporation in the column provided.

Rev	Pages Affected	DOT Approval	Description of Revision	Date In-Corporated Signature
1	LIMITATIONS - CONTENTS Page ii LIMITATIONS Pages 29 and 30	D.F. Heakes 19 Oct 84	Revises Thrust Reverser LIMITATIONS	
2	EMERGENCY PROCEDURES, Pages 4, 18, 19 NORMAL PROCEDURES, Page 35 ABNORMAL PROCEDURES, Pages 29, 44, 48 PERFORMANCE - CONTENTS, Pages ii, vi PERFORMANCE, Pages 128, 129, 130, 131	G.F. Marsters 19 Dec 1984	Revises landing distances to account for improved method of calculating landing distances and updates actual landing distance factors used for system failures.	
3	ABNORMAL PROCEDURES - CONTENTS, Page iii ABNORMAL PROCEDURES - Pages 43, 44, 44A	J.F. Mew 4 Jan 1985	Revised NOTE relating to nose wheel steering after manual landing gear release.	
4	INTRODUCTION, Page 2	J.F. Mew 8 Jan 1985	Introduces procedures for use of auto deployed ground spoilers.	

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4	<p>LIMITATIONS Pages 1, 27</p> <p>NORMAL PROCEDURES - CONTENTS, Page ii</p> <p>NORMAL PROCEDURES, Pages 27, 28, 29, 46, 47, 56, 58</p> <p>ABNORMAL PROCEDURES - CONTENTS, Page ii</p> <p>ABNORMAL PROCEDURES, Pages 30, 47</p>			
5	<p>INTRODUCTION, Pages 1, 2</p> <p>LIMITATIONS, Page 15</p> <p>EMERGENCY PROCEDURES, Page 3</p> <p>NORMAL PROCEDURES - CONTENTS, Page i</p> <p>NORMAL PROCEDURES, Pages 20, 21, 22, 22A, 26, 53, 55, 58 59</p> <p>ABNORMAL PROCEDURES - CONTENTS, Page ii</p> <p>ABNORMAL PROCEDURES, Pages 19, 20, 26, 26A 37</p>	<p>G.F. Marsters 23 Jan 1985</p>	<p>APU Starting limitations revised.</p> <p>Corrects APU procedures and introduces revised procedures related to APU starting and stopping in cold weather and operation with APU fuel heat exchanger removed.</p>	<p>LGH 15 Feb 85</p>

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6	INTRODUCTION, Page 2 LIMITATIONS - CONTENTS, Page ii LIMITATIONS, Pages 25, 26A	G.F. Marsters 28 Mar 1985	Introduces effect of Canadair Service Bulletin 600-0447, Modification - DC Power Generation - TRU 3 Replacement	
7	LIMITATIONS, Page 14	G.F. Marsters 27 May 1985	Introduction of additional fuel additive.	
8	INTRODUCTION, Page 2 LIMITATIONS, Pages 4, 5 NORMAL PROCEDURES, Page 28	M. Khouzam 12 Jun 1985	To add reference to Canadair Service Bulletin 600-0486.	
9	LIST OF SUPPLEMENTS, Page 1 SUPPLEMENT 4 - CONTENTS, Page i SUPPLEMENT 4, Pages 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	G.F. Marsters 14 Jun 1985	Introduces Reduced Engine Power Take-off Procedures for the CL600 Airplane powered by Lycoming ALF502L-2 engines as Supplement 4 to the Airplane Flight Manual.	
10	ABNORMAL PROCEDURES, Page 43	G.F. Marsters 11 Jul 1985	To advise flight crew of hydraulic HI TEMP warning after manual landing gear extension.	

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11	INTRODUCTION Page 2 LIMITATIONS, Pages 24, 28 EMERGENCY PROCEDURES, Page 12 NORMAL PROCEDURES - CONTENTS, Pages i NORMAL PROCEDURES, Pages 19, 20, 20A ABNORMAL PROCEDURES- CONTENTS, Page i ABNORMAL PROCEDURES, Pages 5, 6, 6A, 18	G.F. Masters 22 Aug 1985	Introduction of data relating to Canadair Service Bulletin 600-0462, Modification - Autopilot System - Improvement.	
12	INTRODUCTION Pages 1, 2 NORMAL PROCEDURES, Page 46 PERFORMANCE, Pages 45, 51, 57, 65 67, 77, 85, 87, 89, 93, 95, 117, 119, 127	M. Khouzam 13 Sep 1985	NOTE added relating to anti-skid FAIL light during landing gear retraction.	
13	INTRODUCTION, Page 2 ABNORMAL PROCEDURES - CONTENTS, Page i ABNORMAL PROCEDURES, Pages 10, 10A, 10B	S.R. Didrikson 17 Sep 1985	Introduction of procedure relating to ACU pressure regulator valve failure.	

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14	INTRODUCTION, Page 2 EMERGENCY PROCEDURES, Page 13 NORMAL PROCEDURES, Pages 19, 20	J.F. Mew 23 Sep 1985	Introduces effect of Canadair Service Bulletin 600-0475, Modification - Autopilot System - AFCS Flashing Light.	
15	LIMITATION, Page 8	S.R. Didrikson 8 Nov 1985	Clarification of maximum number of occupants.	
16	LIMITATIONS, Page 29 EMERGENCY PROCEDURES, Page 4 ABNORMAL PROCEDURES - CONTENTS, Page iii ABNORMAL PROCEDURES, Pages 5, 6, 30, 36, 38, 39, 40, 40A, 40B 41, 48, 49 PERFORMANCE - CONTENTS, Pages ii, vi PERFORMANCE, Pages 128, 129, 130, 131, 132, 133	S.R. Didrikson 6 Feb 1986	Landing distance chart included to account for auto deployed ground spoilers. Instructions included regarding the use of landing distance charts in the event of system failures.	
17	NORMAL PROCEDURES, Page 15	D.F. Heakes 6 Mar 1986	Revises Windshield Anti-Ice Test to cater for new controller.	

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18	INTRODUCTION, Page 2 EMERGENCY PROCEDURES, Page 9 NORMAL PROCEDURES - CONTENTS, Page 1 NORMAL PROCEDURES, Pages 15, 16, 17, 18, 18A, 18B, 57 ABNORMAL PROCEDURES, Page 15	G.F. Marsters 21 Apr 1986	Introduces effect of Canadair Service Bulletin 600-0495, Modification - Windshield Anti-icing and Demisting - Dual Heat Control	
19	INTRODUCTION, Page 2 LIMITATIONS - CONTENTS, Page 11 LIMITATIONS, Pages 28, 29	B.J. Wormworth 30 May 1986	Introduction of data regarding Canadair Service Bulletin 600-0508, Modification - Aft Fuselage Fuel Tank - Provision and Installation.	
20	NORMAL PROCEDURES - CONTENTS, Page 11 NORMAL PROCEDURES, Pages 28, 29, 30, 30A and 30B ABNORMAL PROCEDURES, Page 30	D.F. Heakes 12 June 1986	Operation of auto deployed ground spoilers system clarified.	
21	EMERGENCY PROCEDURES, Page 9 NORMAL PROCEDURES, Page 41	G.F. Marsters 18 July 1986	Operation of oxygen system clarified.	

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22	ABNORMAL PROCEDURES - CONTENTS, Page iv ABNORMAL PROCEDURES, Pages 15, 50	G.F. Marsters 18 Sep 1986	Procedure added for windshield outer face ply failure. Procedure added regarding use of continuous ignition following cowl anti-ice failure.	
23	LIMITATIONS - CONTENTS, Page ii LIMITATIONS, Pages 1, 22, 30 NORMAL PROCEDURES, Page 7 PERFORMANCE - CONTENTS, Pages ii, v, vi PERFORMANCE, Pages 46, 66, 67, 78, 79, 81, 82, 82A, 82B, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127 SUPPLEMENT 4, Page 11	B.J. Wormworth 23 Oct 1986	Limitation regarding N ₁ Trim System deleted. Data regarding VMCA versus airplane weight added. PERFORMANCE charts revised to correct 1% performance reduction information and. VMCA of 114 KIAS. Rotation speed data revised to cater for minimum rotation speed of 119 KIAS. Take-off distance data revised and reformatted for anti-ice corrections.	
24	ABNORMAL PROCEDURES, Pages 43, 44	B.J. Wormworth 5 Nov 1986	Procedure for manual extension of landing gear expanded	

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25	NORMAL PROCEDURES, Pages 1, 2, 3, 4, 54	B.J. Wormworth 4 Dec 1986	Check of scavenge ejectors lights added.	
26	LIMITATIONS, Page 28 EMERGENCY PROCEDURES, Page 14 NORMAL PROCEDURES, Pages 11, 12, 13, 14, 26, 33, 34, 41 55, 56, 57 ABNORMAL PROCEDURES, Pages 23, 47 PERFORMANCE, Pages, 128, 129, 130, 131	B.J. Wormworth 22 May 1987	Miscellaneous changes. Landing distance charts revised to cater for VMCA change.	
27	INTRODUCTION, Page 2 LIMITATIONS, Page 8 EMERGENCY PROCEDURES, Pages 10, 25, 26 TEMPORARY REVISION, 600-1/4-1 NORMAL PROCEDURES - CONTENTS, Page i, iii NORMAL PROCEDURES, Pages 10, 10A, 10B, 15, 16, 32, 49, 58, 59	L.T. Farrell 20 July 1987	Definition of icing conditions added. Reference to Service Bulletins A600-0122, A600-0245 and A600-0372 deleted. Effect of Canadair Service Bulletin 600-0542 added. Checking of ACUs added to Cabin Low Pressure procedure. Engine Shutdown procedure revised. NOTE added to establish minimum fuel quantity for go-around procedure.	

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27	ABNORMAL PROCEDURES - CONTENTS, Page iii ABNORMAL PROCEDURES, Pages 15, 40, 40A, 40B, 50			
28	LIMITATIONS, Pages 9 EMERGENCY PROCEDURES, CONTENTS, Page ii EMERGENCY PROCEDURES, Pages 18, 19 NORMAL PROCEDURES, Page 19 ABNORMAL PROCEDURES, Page 31	B.J. Wormworth 17 Sept 1987	Note added regarding engine bleed above 40,000 feet. Stall protection system failure procedure corrected and clarified. AFCS normal procedure corrected. Pitch trim channel failure procedure revised regarding Mach trim.	
29	LIMITATIONS, Page 28 NORMAL PROCEDURES - CONTENTS, Page ii NORMAL PROCEDURES, Pages 30A, 30B ABNORMAL PROCEDURES - CONTENTS, Page iii, iv ABNORMAL PROCEDURES, Pages 34A, 34B, 35	L.T. Farrell 8 Oct 1987	To introduce the effect of Canadair Service Bulletin 600-0543, Powered Fuel Crossfeed	

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30	<p>LIMITATIONS, CONTENTS, Page ii</p> <p>LIMITATIONS, Pages 28, 29, 30</p> <p>TEMPORARY REVISION NO. 600-1/1, Pages 1, 2, 3, 4, 5, 6, 7, 8</p> <p>NORMAL PROCEDURES, Pages 33, 46, 47, 48</p>	L.T. Farrell 9 Oct 1987	<p>Usable fuel quantities corrected and clarified. Instructions added regarding use of nose wheel steering on airplanes not incorporating Canadair Service Bulletin 600-0380</p> <p>Deletion of TR 600-1/1</p>	
31	<p>LIMITATIONS - CONTENTS, Page i</p> <p>LIMITATIONS, Pages 9, 10, 14</p> <p>PERFORMANCE- CONTENTS, Pages ii, iv, v, vi</p> <p>PERFORMANCE, Pages 50, 51, 52, 52A, 52B, 53, 54 54A, 54B, 55, 56 56A, 56B, 57, 58, 58A, 58B, 59, 60 60A, 60B, 61, 62, 62A, 62B, 63, 64, 64A, 64B</p>	L.T. Farrell 29 Oct 1987	Introduction of data related to ALF 502L-2C engines.	

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32	LIMITATIONS, Page 6 NORMAL PROCEDURES, Pages 7, 9, 46, 47 56, 57 ABNORMAL PROCEDURES, Page 5	K.J. Mansfield 3 Nov 1987	Reference to RELIGHT removed and replaced by statement on ignition.	
33	LIMITATIONS, Pages 16, 30 EMERGENCY PROCEDURES, Page 3 NORMAL PROCEDURES, Pages 12, 13, 14, 33	L.T. Farrell 8 Feb 1988	APU bleed air extraction limit clarified. Limitations amended to permit take-off with one or both thrust reverser(s) inoperative. APU fire procedure revised to cater for dormant failure. Error Correction: WOW O/P FAIL light reference deleted from LDG GEAR test in normal procedures, before taxiing.	
34	EMERGENCY PROCEDURES, Pages 1, 2	B.J. Wormworth 14 Mar 1988	Add positive statement on stowage of ADG manual deploy handle. Revision to engine fire drill.	
35	ABNORMAL PROCEDURES, Page 1	B.J. Wormworth 13 May 1988	New Note 1 added to Engine Failure/Shutdown procedures regarding anti-ice isolation valve.	

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36	LIMITATIONS- CONTENTS, Page ii LIMITATIONS, Pages 16, 27, 28, 29 EMERGENCY PROCEDURES, Pages 1, 2, 4, 4A, 4B, 6, 7, 8, 9, 10, 12, 14, 17, 20 ABNORMAL PROCEDURES Pages 22, 31, 40, 40B, 42, 46, 47 PERFORMANCE, Page 46	B.J. Wormworth 20 Dec 1988	Miscellaneous changes	
37	NORMAL PROCEDURES, Pages 33, 46, 48	B.J. Wormworth 10 July 1989	Mechanical nose wheel steering system operation clarified.	
38	INTRODUCTION, Page 2 NORMAL PROCEDURES- CONTENTS, Pages ii, iii NORMAL PROCEDURES, Pages 27, 28, 29, 32, 33, 34, 36, 44, 45, 53, 54, 55 ABNORMAL PROCEDURES, CONTENTS, Page i ABNORMAL PROCEDURES, Pages 3, 4 TEMPORARY REVISION 600-1/3-1	L.T. Farrell 25 Sept 1989	Effect of Canadair Service Bulletin 600-0561, Modification - Nose Gear Doors - External Ground Operation added. Flight controls check deleted. Stall protection system check revised. Title of Engine Failure Before Achieving V ₁ procedure changed.	

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39	LIMITATIONS- CONTENTS, Page ii LIMITATIONS, Pages 28, 30 NORMAL PROCEDURES- CONTENTS, Page ii NORMAL PROCEDURES, Pages 41, 56, 58 TEMPORARY REVISIONS 600-1/7, 600-1/9	K.J. Mansfield 13 July 1990	Data of TR 600-1/7 and TR 600-1/9 incorporated.	22.08.90 <i>Amg</i>
40	INTRODUCTION, Page 1 LIMITATIONS - CONTENTS, Page i LIMITATIONS, Pages 18, 21 EMERGENCY PROCEDURES, Page 24 NORMAL PROCEDURES - CONTENTS, Page i NORMAL PROCEDURES, Pages 1, 2, 10A, 11, 12, 14, 53 TEMPORARY REVISIONS 600-1/5, 600-1/8	K.J. Mansfield 25 Sept 1990	Reference to SB 600-0086, SB 600-0213 and SB 600-0308 deleted. Procedure for using APU to provide cabin air conditioning revised. Data from TR 600-1/5 and TR 600-1/8 incorporated.	23.11.90 <i>D. Nadon</i>

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41	EMERGENCY PROCEDURES- CONTENTS, Page ii EMERGENCY PROCEDURES, Pages 27, 28 ABNORMAL PROCEDURES- CONTENTS, Page i ABNORMAL PROCEDURES, Pages 1, 2, 3, 4, 5, 6, 6A, 6B	B.J. Wormworth 9 Nov 1990	Engine failure or rejected take-off before V ₁ procedure moved to Emergency Procedures. Engine failure shutdown procedure clarified.	04.02.91 D. Naden
42	EMERGENCY PROCEDURES, Pages 2, 3, 8, 14 NORMAL PROCEDURES, Pages 22A, 59 ABNORMAL PROCEDURES, Pages 19, 20, 38, 40, 40B	B.J. Wormworth 11 Feb 1991	Miscellaneous changes.	03.06.91 Gisèle L.
43	LIMITATIONS - CONTENTS, Page ii LIMITATIONS, Pages 6, 20, 29 EMERGENCY PROCEDURES, Pages 2, 5, 6, 10 NORMAL PROCEDURES, Page 55 ABNORMAL PROCEDURES, Pages 1, 4, 7, 32	B.J. Wormworth 27 Mar 1991	Miscellaneous changes.	26.06.91 D. Naden

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44	PERFORMANCE, Pages 38, 39, 40, 41, 42, 43 SUPPLEMENT 1, Pages 1, 2	B.J. Wormworth 30 Apr 1991	Altitude position error charts corrected for 41,250 lb MTOW. Supplement 1 revised to include 41,250 lb MTOW and reference to ICAO Annex 16, Chapter 3.	02-07-91 <i>Amg</i>
45	LIMITATIONS, Pages 5(LBA), 6(LBA) EMERGENCY PROCEDURES, Pages 7, 18, 20 NORMAL PROCEDURES - CONTENTS, Page i NORMAL PROCEDURES, Pages 18B, 19, 20, 24	B.J. Wormworth 25 Oct 1991	Miscellaneous changes. Data added for airplanes on the German registry.	27-11-91 <i>p L.</i>
46	INTRODUCTION, Pages 1, 2 LIMITATIONS, Pages 24, 26B, 30 EMERGENCY PROCEDURES, Pages 2, 5, 6, 9, 13, 14, 18 NORMAL PROCEDURES - CONTENTS, Page i NORMAL PROCEDURES, Pages 1, 2, 3, 14, 20B, 22B, 53 ABNORMAL PROCEDURES, Pages 26B, 44B	B.J. Wormworth 01 Nov 1991	Miscellaneous changes.	12-02-92 <i>Amg</i>

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47	LIMITATIONS - CONTENTS, Page ii LIMITATIONS Page 30 APPENDIX 1 - CONTENTS, Page 1 APPENDIX 1, Pages 1, 2, 32-1	B.J. Wormworth 16 March 1992	Configuration Deviation List added as Appendix 1.	19-05-92 ng.
48	LIMITATIONS, Page 6, 6(LBA)	B.J. Wormworth 3 Jun 1992	Removal of requirement for continuous ignition in icing conditions.	09-07-92 ng.
49	EMERGENCY PROCEDURES, Pages 11, 14, 16 NORMAL PROCEDURES, Pages 29, 33 ABNORMAL PROCEDURES, Pages 10, 47	K.J. Mansfield 28 Aug 1992	Jammed rudder control system memory items clarified. Pitch and roll disconnect check deleted. Miscellaneous changes.	02-12-92 ng.
50	LIMITATIONS, Page 6(LBA)	B.J. Wormworth 19 Feb 1993	Reference to extended overwater operations deleted.	23-3-93 ng.
51	ABNORMAL PROCEDURES - CONTENTS, Page iii ABNORMAL PROCEDURES, Pages 34A, 35	L. Galvin 02 Mar 1993	Introduces additional abnormal procedure for airplanes with powered fuel crossfeed.	06-04-93 DL.
52	EMERGENCY PROCEDURES, Pages 25, 26	B.J. Wormworth 23 Jun 1993	Wing anti-ice duct failure procedure revised.	26-8-93 ng.

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53	APPENDIX 1 - CONTENTS, Page 1 APPENDIX 1, Page 23-1	K.J. Mansfield 22 Dec 1993	Static dischargers added to the Configuration Deviation List.	13.01.94 DN
54	NORMAL PROCEDURES - CONTENTS, Page ii NORMAL PROCEDURES, Pages 22B, 23, 24	K.J. Mansfield 28 Jan 1994	Take-off configuration warning system check added for first flight of each day.	13.03.94 DN
55	NORMAL PROCEDURES, Pages 50, 51 PERFORMANCE, Pages 75, 82, 82A, 105, 111, 112, 113	K.J. Mansfield 11 Feb 1994	Buffet boundary data revised re load factor. Performance charts expanded for anti-ice on at 10°C (50°F).	16.05.94 DN
56	LIMITATIONS, Page 6 EMERGENCY PROCEDURES, Pages 5, 10, 14, 16 NORMAL PROCEDURES, Page 37 ABNORMAL PROCEDURES - CONTENTS, Page ii ABNORMAL PROCEDURES, Pages 24, 25, 26	K.J. Mansfield 09 Aug 1994	Types of operation expanded. Reference to ram air vent removed to obtain MMEL relief. Cabin Low Pressure procedure revised regarding use of RATE knob. Rudder Control System Jammed procedure revised to include reference to rudder trim. Fusible plug release data corrected. Miscellaneous electrical system changes.	06.05.95 DN

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57	LIMITATIONS - CONTENTS, Page ii LIMITATIONS, Page 30	K.J. Mansfield 06 Jul 1995	Operation without main landing gear wheel discs.	7.03.95 DV
58	LIMITATIONS, Page 29 EMERGENCY PROCEDURES - CONTENTS, Page i EMERGENCY PROCEDURES, Pages 1, 4B, 14 ABNORMAL PROCEDURES, Page 45	K.J. Mansfield 09 Nov 1995	Correction to fusible plug release data. Addition of Emergency Procedure for low engine oil pressure. Revision of ADG manual deployment procedure. Deletion of TR 600-1/6. Expansion of services inoperative during loss of all normal electrical power. Revision of nose wheel steering failure procedure.	11.18.95 CC
59	EMERGENCY PROCEDURES, Page 14 NORMAL PROCEDURES, Pages 10A, 18B, 20A, 21, 22A, 26, 53, 55, 58, 59 ABNORMAL PROCEDURES, Page 26	K.J. Mansfield 20 Dec 1995	Revision of ADG manual deployment procedure. APU shutdown procedure clarified. Increase time delay for autopilot engagement during AFCS test. Effect of Canadair Service Bulletin 600-0660 added.	30.01.96 D.V.

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60	LIMITATIONS Page 13 NORMAL PROCEDURES - CONTENTS, Pages i, ii NORMAL PROCEDURES, Pages 1, 2, 3, 4, 22B, 30A, 30B, 54 ABNORMAL PROCEDURES - CONTENTS, Page iii ABNORMAL PROCEDURES, Pages 9, 34A, 34B, 35, 46	L.T. Farrell 17 Jan 1996	Fuel grade specifications revised. Effect of Canadair Service Bulletin 600-0651 added. Starting procedure checks expanded. Caution and warning system check clarified. Fuel system malfunctions revised.	Feb. 09/96 D.D.
61	EMERGENCY PROCEDURES, Pages 1, 14	R. Walker 02 Apr 1996	Clarification of ADG manual deployment procedure.	May 21/96 D.V.
62	INTRODUCTION, Page 3 NORMAL PROCEDURES, Pages 22A, 22B, 59	R. Walker 17 Jun 1996	List of Service Bulletins Updated. APU shutdown procedure clarified. Caution and warning system check clarified.	Aug. 01/96 R

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63	EMERGENCY PROCEDURES, Page 12 NORMAL PROCEDURES, Page 19 ABNORMAL PROCEDURES - CONTENTS, Page i ABNORMAL PROCEDURES, Pages 18, 19	L. Farrell 24 Jul 1996	Roll monitor test relocated.	Aug. 15/96 R
64	INTRODUCTION, Pages 1, 2, 3	L. Farrell 30 Jul 1996	Introduction of definition for note, caution and warning.	Sep. 20/96 R
65	NORMAL PROCEDURES, Page 58	W. Jupp 25 Sep 1996	Consolidated check list revised to include shutoff of electric hydraulic pumps.	Oct. 15/96 R
66	LIMITATIONS, Page 7 NORMAL PROCEDURES, Page 16	K.J. Mansfield 28 Oct 1996	Altitude and temperature operating limits revised. Revise anti-ice test to permit verification of isolation valve.	Nov. 18/96 R
67	LIMITATIONS, Page 15	L. Farrell 28 Nov 1996	APU starting limits expanded.	Dec. 18/96 R
68	ABNORMAL PROCEDURES, Pages 34A, 34B, 50	R. Walker 28 Jan 1997	Fuel imbalance procedure clarified. Windshield outer face ply failure procedure expanded.	Feb. 21/97 R

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69	INTRODUCTION, Page 3 LIMITATIONS - CONTENTS, Pages i, ii LIMITATIONS, Pages 6, 6(LBA), 18, 19, 20, 21, 30, 31, 32 TEMPORARY REVISION 600-1/10	W. Jupp 27 Mar 1997	Addition of limitations to include flight in RVSM airspace.	Apr 18/97 D.V.
70	EMERGENCY PROCEDURES - CONTENTS, Pages i, ii EMERGENCY PROCEDURES, Pages 1, 2, 3, 4, 4A, 4B, 15, 16, 20, 21, 22, 22A, 22B, 22C, 22D NORMAL PROCEDURES - CONTENTS, Pages ii, iii NORMAL PROCEDURES, Pages 30A, 56, 57, 58, 59	K.J. Mansfield 12 Aug 1997	Clarification of engine fire indications in the event of a lightning strike. Revision of ditching procedures to include forced landing. Revision of flight control system emergencies to clarify landing. Addition of fuel quantity check in Normal Procedures.	Nov 24/97 MNP
71	NORMAL PROCEDURES, Pages 2, 3, 22, 22A, 54, 59	W. Jupp 06 Jan 1998	Clarification of bleed air requirement for engine starting. Revision of APU procedures.	Feb 27/98

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72	LIMITATIONS, Pages 14, 27 EMERGENCY PROCEDURES - CONTENTS, Page ii EMERGENCY PROCEDURES, Pages 1, 23 NORMAL PROCEDURES, Pages 11, 32	W. Jupp 20 Apr 1998	Revision of oil grade limitations. Clarification of flight spoiler limit. Addition of procedure for excessive asymmetry or loss of braking. Revision of best glide speed for double engine failure. Clarification of cabin pressurization selection before take-off. Deletion of requirement to cycle gear during operation from contaminated runways. Revision of braking procedures for operation from contaminated runways.	May 04/98 MNP
73	LIMITATIONS, Page 15 EMERGENCY PROCEDURES, Page 14	W. Jupp 03 Dec 1998	Revision of APU in-flight start limit.	Dec 16/98 D.Y.

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74	<p>INTRODUCTION, Page 4</p> <p>EMERGENCY PROCEDURES - CONTENTS, Page i</p> <p>EMERGENCY PROCEDURES, Pages 1, 2, 3, 4, 4A, 4B, 6, 7, 8, 9, 10, 14, 27, 28</p> <p>NORMAL PROCEDURES, Page 28</p> <p>ABNORMAL PROCEDURES - CONTENTS, Pages i, iii</p> <p>ABNORMAL PROCEDURES, Pages 1, 2, 3, 7, 9, 44B, 45</p> <p>APPENDIX 1, Page 23-1</p>	<p>W. Jupp 21 Apr 1999</p>	<p>Miscellaneous updates to the emergency and abnormal procedures.</p> <p>Clarification of spoiler check procedure.</p> <p>Clarification of thrust setting during engine vibration.</p> <p>Revision of the nose wheel steering system failure.</p> <p>Revision of the Configuration Deviation List for static dischargers.</p>	
75	<p>INTRODUCTION, Page 4</p>	<p>W. Jupp 21 Sep 1999</p>	<p>Clarification of certification registry coding.</p>	

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76	<p>INTRODUCTION, Page 3</p> <p>LIMITATIONS - CONTENTS, Page ii</p> <p>LIMITATIONS, Pages 28, 30, 31</p> <p>EMERGENCY PROCEDURES, Pages 1, 20</p> <p>NORMAL PROCEDURES - CONTENTS, Page ii</p> <p>NORMAL PROCEDURES, Pages 32, 33</p> <p>ABNORMAL PROCEDURES, Pages 33, 34</p> <p>APPENDIX 1 - CONTENTS, Page 1</p> <p>APPENDIX 1 Page 32-1</p>	W. Jupp 07 Feb 2000	<p>Removal of requirement for wheel discs.</p> <p>Revision of limitation to permit take-off with fuel in the auxiliary tank.</p> <p>Revision of target airspeed during double engine failure.</p> <p>Correction of final approach speed for ditching and forced landing.</p> <p>Clarification of fuel failure procedures.</p>	
77	<p>EMERGENCY PROCEDURES - CONTENTS, Page ii</p> <p>EMERGENCY PROCEDURES, Pages 23, 24, 24A, 24B, 24C, 24D</p> <p>NORMAL PROCEDURES, Pages 33, 34, 49</p> <p>ABNORMAL PROCEDURES - CONTENTS, Page iii</p> <p>ABNORMAL PROCEDURES, Pages 40A, 43, 44, 45</p>	W. Jupp 03 Apr 2000	Revision of the landing gear wheel and brake procedures.	

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79	<p>INTRODUCTION, Page 4</p> <p>NORMAL PROCEDURES, Page 1</p> <p>ABNORMAL PROCEDURES - CONTENTS, Page iii</p> <p>ABNORMAL PROCEDURES, Pages 9, 43, 44, 44A, 44B, 45, 46</p>	W. Jupp 28 Mar 2002	<p>Addition of a note regarding ACU selection before engine start.</p> <p>Revision of anti-skid failure procedures.</p>	
80	<p>LIMITATIONS Page 28</p> <p>LIST OF SUPPLEMENTS, Page 1</p> <p>SUPPLEMENT 14 - CONTENTS, Page i</p> <p>SUPPLEMENT 14, Page 1</p>	W. Jupp 20 Jun 2002	<p>Clarification of auxiliary fuel tank limits.</p> <p>Addition of Supplement 14 for operation with airplane systems inoperative.</p>	

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81	LIMITATIONS – CONTENTS, Pages i, ii LIMITATIONS, Pages 13, 14, 15, 16, 25, 26, 26A, 26B ABNORMAL PROCEDURES, Page 22 APPENDIX 1 – CONTENTS, Pages i, ii APPENDIX 1 Pages 1, 2, 23-1, 23-2, 32-1, 33-1, 33-2, 51-1, 51-2, 52-1, 52-2, 52-3, 52-4, 52-5, 53-1, 53-2, 55-1, 55-2, 55-3, 57-1, 57-2, 57-3, 57-4, 57-5, 57-6 TEMPORARY REVISION 600-1/2-3	W. Jupp 25 Oct 2002	Addition of fuel temperature limitations. Update of Configuration Deviation List. Incorporation of TR 600-1/2-3.	

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82	<p>INTRODUCTION, Page 4</p> <p>LIMITATIONS – CONTENTS, Page i</p> <p>LIMITATIONS, Pages 8, 8A, 8B</p> <p>EMERGENCY PROCEDURES, Pages 5, 26</p> <p>NORMAL PROCEDURES – CONTENTS, Pages i, ii</p> <p>NORMAL PROCEDURES, Pages 15, 16, 17, 18, 18A, 30B, 31, 32, 33, 44, 45</p> <p>ABNORMAL PROCEDURES, Pages 2, 15, 16, 17, 50</p> <p>PERFORMANCE – CONTENTS, Pages i, iii, iv, v, vi, vii, viii</p> <p>PERFORMANCE, Pages 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 40A, 40B, 40C, 40D, 41, 42, 43</p> <p>APPENDIX 1 – CONTENTS, Page ii</p> <p>APPENDIX 1, Pages 1, 2, 56-1, 56-2</p> <p>TEMPORARY REVISION 600-1/13-1</p>	<p>W. Jupp 21 Apr 2003</p>	<p>Revision of limitations and procedures for operating in icing conditions.</p> <p>Clarify the Smoke or fire procedures.</p> <p>Revision of stall protection system test.</p> <p>Correction of minimum airspeed with visible ice on wing.</p> <p>Revision of position error correction charts.</p> <p>Revision of general limitations for the Configuration Deviation List.</p> <p>Addition of CDL for p-static probes.</p>	

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83	LIMITATIONS, Page 8B NORMAL PROCEDURES – CONTENTS, Page iii NORMAL PROCEDURES, Pages 46, 47	W. Jupp 30 Sep 2003	Expansion of icing limitations. Addition of CAUTION for resetting nose wheel steering.	
84	EMERGENCY PROCEDURES, Pages 5, 11 SUPPLEMENT 14 – Contents, Page i SUPPLEMENT 14, Page 2	W. Jupp 16 Jan 2004	Revision of procedures using emergency depressurization. Expand supplement of inoperative systems to cover flap PDU.	
85	LIMITATIONS, Page 19 EMERGENCY PROCEDURES – CONTENTS, Page ii EMERGENCY PROCEDURES, Pages 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36 ABNORMAL PROCEDURES – CONTENTS, Pages iii, iv ABNORMAL PROCEDURES, Pages 45, 46, 47, 48, 49, 50, 51, 52, 53, 54 APPENDIX 1 Pages 23-1, 23-2	W. Jupp 16 Jul 2004	Addition of CAUTION regarding maneuvering. Revision of landing gear procedures. Clarification of the CDL for static dischargers.	

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86	LIMITATIONS, Page 8B APPENDIX 1 Pages 23-1, 23-2	W. Jupp 14 Jan 2005	Expand wing anti-icing limitations to include Type III fluids. Revision of the CDL for static dischargers.	
87	LIMITATIONS – CONTENTS, Page i LIMITATIONS, Pages 8C, 8D, 13, 14, 28 ABNORMAL PROCEDURES, Pages 45, 46 TEMPORARY REVISION 600-1/16	W. Jupp 11 Sep 2006	Incorporation of temporary revision to emphasize the requirement for an aerodynamically clean airplane during cold weather operations. Clarification of auxiliary fuel tank limit. Revision of fuel specifications and additives. Revision of nose wheel steering failure procedure.	
88	INTRODUCTION, Page 4 LIMITATIONS, Pages 28, 29	W. Jupp 19 Jan 2007	Addition of fuel system limitations for aircraft with forward auxiliary fuel tank deactivated.	

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90	EMERGENCY PROCEDURES, Pages 25, 26, 27, 30 NORMAL PROCEDURES, Page 49 ABNORMAL PROCEDURES – CONTENTS, Page iii ABNORMAL PROCEDURES, Pages 34, 34A, 34B, 34C, 34D, 34E, 34F, 35, 43, 44, 47, 49	R. W. Walker 14 Oct 2008	Clarification of speed restriction for various flap settings. Clarification of fuel quantity during go-around. Addition of a fuel leak procedure. Revision of associated fuel procedures. Clarification of braking during anti-skid failures. Clarification of landing gear manual extension procedure. Revision of yaw damper failure abnormal procedure.	
91	EMERGENCY PROCEDURES – CONTENTS, Page i EMERGENCY PROCEDURES, Pages 5, 6, 6A, 6B, 6C, 6D, 7	R. W. Walker 26 May 2009	Standardization of smoke/fire/fumes emergency procedures.	

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93	LIMITATIONS, Pages 26, 32 NORMAL PROCEDURES – CONTENTS, Page i NORMAL PROCEDURES, Pages 18A, 18B, 19, 20, 55, 56, 57, 58 ABNORMAL PROCEDURES – CONTENTS, Pages i, iv ABNORMAL PROCEDURES, Pages 6A, 15, 16, 16A, 16B, 17, 51, 52, 53, 54 SUPPLEMENT 15, Page 1 TEMPORARY REVISION 600-1/17	W. Istchenko 05 May 2010	Addition of circuit breaker reset limitation. Clarification of thrust reverser limitations and thrust reverser unlocked procedure. Incorporation of temporary revision to ensure sufficient heat is available for wing anti-icing. Clarification of anti-ice tests in consolidated check list. Addition of windshield anti-ice selection after landing. Correction of reference in go-around procedure. Addition of ice dispersal procedure. Addition of reference to ice dispersal procedure during wing anti-ice failures. Revision of windshield outer face ply failure procedure. Correction of take-off rotation rate in AOA supplement.	

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95	<p>NORMAL PROCEDURES, Pages 2, 3, 4, 54</p> <p>ABNORMAL PROCEDURES, Pages 9, 45, 46</p> <p>APPENDIX 1 Pages 51-1, 51-2, 51-3</p>	W. Istchenko 29 Apr 2011	<p>Addition of information regarding engine starting.</p> <p>Addition of information regarding nosewheel steering failure.</p> <p>Revision of CDL for aerodynamic sealant.</p>	

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96	<p>EMERGENCY PROCEDURES – CONTENTS, Page ii</p> <p>EMERGENCY PROCEDURES, Pages 6, 6A, 6C, 7, 29, 36, 37, 38</p> <p>LIST OF SUPPLEMENTS, Page 1</p> <p>SUPPLEMENT 14 – Contents, Page i</p> <p>SUPPLEMENT 14, Page 2</p> <p>SUPPLEMENT 17 – Contents, Page i</p> <p>SUPPLEMENT 17, Pages 1, 2</p>	W. Istchenko 08 Nov 2011	<p>Addition of emergency evacuation procedure.</p> <p>Addition of reference to emergency evacuation procedure in smoke/fire/fumes, landing gear up/unsafe landing and rejected take-off procedures.</p> <p>Revision of Supplement 14 to add performance penalties for operation with a cracked windshield faceply.</p> <p>Introduction of Supplement 17 for operation with a cracked windshield faceply.</p> <p>Incorporation of temporary revision 600-1/23</p>	
97	<p>INTRODUCTION, Pages 2, 3, 4</p> <p>LIMITATIONS, Page 14A</p> <p>NORMAL PROCEDURES – CONTENTS, Page i</p> <p>NORMAL PROCEDURES, Pages 1, 2, 2A, 2B, 3, 4, 5, 6, 7, 9, 10, 10A, 10B, 49</p>	W. Istchenko 30 Oct 2012	<p>Revision of fuel system icing inhibitor information.</p> <p>Removal of data pertaining to airplanes not incorporating Service Bulletin 600-0356.</p> <p>Deletion of temporary revision 600-1/4-1.</p>	

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98	EMERGENCY PROCEDURES, Page 16	W. Istchenko 19 Apr 2013	Revision of stall recovery procedure.	
99	EMERGENCY PROCEDURES – CONTENTS, Page i EMERGENCY PROCEDURES, Pages 5, 6, 6A, 6B, 6C, 6D, 7 NORMAL PROCEDURES, Pages 6, 7	W. Istchenko 29 Oct 2013	Revision of smoke/ fire/fumes procedures. Addition of step to deactivate fuel pump when dry motoring with one engine operating.	
100	NORMAL PROCEDURES, Page 49 ABNORMAL PROCEDURES – CONTENTS, Page iv ABNORMAL PROCEDURES, Pages 6A, 55, 56	W. Istchenko 19 Oct 2016	Addition of step to disarm thrust reversers during go-around. Addition of procedure for radio altimeter failure.	



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101	LIMITATIONS, Pages 8B, 8D, 13, 14 EMERGENCY PROCEDURES, Pages 1, 2, 14 NORMAL PROCEDURES, Page 49 ABNORMAL PROCEDURES, Page 6A	W. Istchenko 06 Jul 2017	Revision of wing anti-ice limitations. Removal of upper fuselage from critical surface definition for cold weather operations. Revision of Chinese fuel specification. Revision of notes regarding Russian TS-1 fuel. Addition of generator reset during double engine failure. Revision of double engine failure to pull ADG manual deploy handle prior to landing. Addition of check to verify ADG power is established during loss of all normal electrical power. Clarification of generator reset during loss of all normal electrical power. Revision of go-around procedures. Clarification of single engine go-around.	

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102	EMERGENCY PROCEDURES, Page 33	W. Istchenko 08 Jan 2018	Harmonization of wing anti-ice duct failure. Clarification of wait time for wing anti-ice duct failure.	
103	EMERGENCY PROCEDURES – CONTENTS, Page ii EMERGENCY PROCEDURES, Pages 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 ABNORMAL PROCEDURES, Page 14 APPENDIX 1 Pages 51-1, 51-3	W. Istchenko 31 Aug 2018	Addition of procedure for unreliable airspeed. Addition of information to CDL for aerodynamic sealant.	
104	LIMITATIONS – CONTENTS, Page ii LIMITATIONS, Pages 23, 24 ABNORMAL PROCEDURES – CONTENTS, Page i ABNORMAL PROCEDURES, Pages 2, 3, 4	W. Istchenko 22 Apr 2019	Addition of warning to AFCS limitations. Clarification of references. Addition of procedure for engine failure in climb during ALTSEL.	



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105	EMERGENCY PROCEDURES – CONTENTS, Page ii EMERGENCY PROCEDURES, Pages 25, 26, 27, 28, 29, 30, 31 ABNORMAL PROCEDURES, Pages 47, 47A, 47B, 50	A. Hartono 07 Nov 2019	Revision of procedures for gear disagree. Revision of procedure for landing gear lever jammed in the UP position. Addition of information regarding landing gear manual release operation. Addition of information to WOW I/P FAIL procedure.	
106	LIMITATIONS Page 8C, 8D, 8E NORMAL PROCEDURES, Pages 18, 18A, 58	J. Randall 16 Apr 2020	Revises wing anti-ice limitations and normal procedure.	



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	16B	May 05/10		49	Oct 26/09
	17	May 05/10		50	Nov 07/19
	18	Jul 24/96		51	May 05/10
	19	Jul 24/96		52	May 05/10
	20	Feb 11/91		53	May 05/10
	21	Aug 01/84		54	May 05/10
	22	Apr 15/08		55	Oct 19/16
	23	May 22/87		56	Oct 19/16
	24	Aug 09/94			



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				46	Dec 20/88
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	2	Aug 01/84		48	Aug 01/84
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	5	Aug 01/84		51	Oct 29/87
	6	Aug 01/84		52	Oct 29/87
	7	Aug 01/84		52A	Oct 29/87
	8	Aug 01/84		52B	Oct 29/87
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	36	Apr 21/03		68	Aug 01/84
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4. SYSTEMS OPERATION - ANTI-ICE (Cont'd)

C. ICING CONDITIONS DURING FLIGHT

NOTE

Icing conditions exist in flight at a TAT of 10°C (50°F) or below and visible moisture in any form is encountered (such as clouds, rain, snow, sleet or ice crystals), except when the SAT is -40°C (-40°F) or below.

WARNING

Delaying the use of cowl anti-ice may result in engine ice ingestion, resulting in possible severe engine damage and / or flameout.

Delaying the use of wing anti-ice may result in small amounts of ice accumulation on the wing leading edge.

Small accumulations of ice on the wing leading edge can change the stall characteristics, the stall speed and the stall margin provided by the stall protection system.

At or above 22,000 feet, when ice is indicated by the ice detection system,
or

Below 22,000 feet, when in icing conditions, when ice is indicated by the ice detection system, or prior to extending flaps for approach when TAT is 10°C (50°F) or below, accomplish the following:

- (1) Thrust Check 75% N₂ rpm minimum.
- (2) RELIGHT switch ON
- (3) ANTI-ICE, ENGINES, LEFT
switch/light Press in ON light on.

4. SYSTEMS OPERATION - ANTI-ICE (Cont'd)

C. ICING CONDITIONS DURING FLIGHT (Cont'd)

When satisfactory operation of left engine is confirmed:

- (4) ANTI-ICE, ENGINES, RIGHT
switch/light Press in ON light on.
- (5) ANTI-ICE, ISOL OPEN
switch/light Check ISOL OPEN light out.
- (6) ANTI-ICE WING switch AUTO Check L FAIL and R FAIL lights on briefly then out. Check L HEAT and R HEAT lights on and ANTI-ICE, DUCT FAIL, L EDGE OVHT and AUTO FAULT lights out.

NOTE

When wing anti-ice is selected prior to extending flaps for approach when TAT is 10°C (50°F) or below, it may be selected OFF when the L HEAT and R HEAT lights on the anti-ice panel turn on and:

- ICE is not annunciated by the ice detection system, and
- Not in icing conditions.

If L HEAT or R HEAT lights do not come on:

- (7) Thrust Increase Check L HEAT and R HEAT lights on.

If L HEAT or R HEAT lights remain out:

- (8) Leave icing conditions.

NOTE

1. During single engine operation in icing conditions, with wing anti-icing system on, open anti-ice isolation valve to prevent asymmetric anti-icing. N₂ rpm in excess of 75% may be required to maintain L HEAT and R HEAT lights on.
2. Do not extend flaps in icing conditions except as required for take-off, approach and landing.
3. Use of engines and wing anti-ice systems affects engine and airplane performance (refer to PERFORMANCE for applicable factors).
4. If the airplane flies out of icing conditions and the ice detector system senses no ice present, the white ICE lights go out.
5. The ACUs must be off for landing in conditions requiring engines and/or wing anti-ice operation (refer to LIMITATIONS).