

NOTICE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

N 7110.183

Cancellation
Date: 1/28/99

SUBJ: AIRCRAFT TYPE DESIGNATORS

1. PURPOSE. This notice updates Appendix A, Aircraft Information, of Order 7110.65, Air Traffic Control, to introduce changes to aircraft designators agreed between the Federal Aviation Administration (FAA), International Civil Aviation Organization (ICAO), NAV CANADA and Eurocontrol. These changes will also be published in the ICAO document 8643/26.

2. DISTRIBUTION. This notice is distributed to select offices in Washington headquarters, regional offices, FAA Technical Center, FAA Aeronautical Center, all air traffic control facilities, international aviation field offices, and interested aviation public.

3. ACTION.

a. Beginning November 5, 1998, use Appendix A to this notice in lieu of Order 7110.65, Appendix A, until Change 2 is issued to Order 7110.65.

b. Implement procedures to encourage use of only 'new' aircraft designators beginning November 5, 1998.

4. EFFECTIVE DATE. This notice is effective November 5, 1998

5. BACKGROUND. In November 1997, the United States implemented ICAO document 8643/25, Aircraft Type Designators. Due to the lack of time to prepare for implementation, a transition period of one year was identified, during which both 'old' and 'new' aircraft designators were accepted within the National Airspace System (NAS). After implementation, the FAA worked with ICAO, NAV CANADA, Eurocontrol, union representatives, regional offices and industry organizations to address issues raised by the new designators, and to obtain necessary changes. This notice incorporates those and other changes, and terminates the transition period.

6. EXPLANATION OF CHANGES. Changes to information in Appendix A are identified by **bold** typeface and by change lines in the margin. The information contained in this notice will be incorporated into Order 7110.65. The Briefing Guide contained in Appendix B to this notice may be used to assist in local training.

a. Changes to ICAO designators agreed between the FAA, ICAO, NAV CANADA and Eurocontrol have been implemented.

- b. New aircraft have been added where requested by field facilities, or where these aircraft are or will be flying in the NAS.
- c. New designators have been added for Stage 3 aircraft, using the fourth character 'Q'. These are for use within the NAS only, and will not be recognized in Canadian airspace or other airspace outside the United States.
- d. Since the 'old' designators will no longer be valid after November 5, 1998, the column 'Old Designator' has been removed. The column 'New Designator' has been replaced by 'Type Designator'.
- e. The aircraft have been sorted alphabetically by designator within manufacturer, except where it made sense to keep two designators adjacent because one was a variant of the other; e.g., PA32 and P32R (PA32 with retractable gear).
- f. Duplicated designators have been eliminated. The ICAO implementation in November 1997 combined some models of aircraft into a single designator. These were still showing as separate aircraft in Appendix A, with the same designator. They have been combined into a single record with one designator; e.g., Beech King Air 100A and Beech King Air 100B have been combined into one record for the BE10, Beech King Air 100.
- g. Clarification of the Weight Category S+ as it applies to Class B airspace rules has been added to the appendix introduction.
- h. Additional information on climb and descent rates have been added where available.

Jeff Griffith
Program Director for
Air Traffic Operations

APPENDIX A. AIRCRAFT INFORMATION

TYPE ENGINE ABBREVIATIONS

P	piston
T	jet/turboprop
J	jet

CLIMB AND DESCENT RATES

Climb and descent rates based on average en route climb/descent profiles at median weight between maximum gross takeoff and landing weights.

SRS

SRS means "same runway separation;" categorization criteria is specified in para , SAME RUNWAY SEPARATION.

MANUFACTURERS

Listed under the primary manufacturer are other aircraft manufacturers who also make versions of some of the aircraft in that group.

AIRCRAFT WEIGHT CLASSES

Heavy. Aircraft capable of takeoff weights of more than 255,000 pounds whether or not they are operating at this weight during a particular phase of flight.

Large. Aircraft of more than 41,000 pounds, maximum certificated takeoff weight, up to 255,000 pounds.

Small. Aircraft of 41,000 pounds or less maximum certificated takeoff weight.

STAGE 3 AIRCRAFT DESIGNATORS

Stage 3 aircraft designators such as B72Q, B73Q, DC8Q, DC9Q are only for use within the US. These designators will not be recognized in Canadian airspace or any other airspace outside the US.

** Denotes singlepiloted military turbojet aircraft or aircraft to receive the same procedural handling as a singlepiloted military turbojet aircraft.*

**** Denotes amphibian aircraft.*

+ Denotes aircraft weighing between 12,500 lbs. and 41,000 lbs. For Class B Airspace rules, these aircraft are "large, turbine-engine powered aircraft".

Fixed Wing Aircraft

AERONCA (USA - see Bellanca)

AERO SPACELINES (USA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Super Guppy, <u>Super Turbine Guppy</u> Super Turbine Guppy	SGUP	4T/L	1,500	1,500	III

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AEROSPATIALE (France)

(Also MORANE-SAULNIER, PZL-OKECIE, SOCATA, SUD, SUD-EST, TBM)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Rallye, Rallye Club Rallye Club, Super Rallye, Super Rallye, Rallye Commodore, Rallye Commodore, Minerva, Minerva (MS-880 to 894) (MS-880 to 894)	RALL	1P/S	750	750	I
Caravelle SE 210	S210	2J/L	2,300	2,000	III
Corvette SN601	S601	2J/S+	2,500	2,000	III
Tampico TB-9	TAMP	1P/S	600	700	1
TBM TB-700	TBM7	1T/S	1700	1500	1
Tabago TB10C/200	TOBA	1P/S	700	700	1
Trinidad TB-20/ 2121	TRIN	1P/S	850	700	1

AEROSPATIALE/AERITALIA (France/Italy)

(Also ATR, ALENIA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
ATR-42-200/300/320 ATR-42- 200/300	AT43 AT43	2T/L 2T/L	2,000 2,000	2,000 2,000	III III
ATR-42-400 ATR-42-400	AT44 AT44	2T/L 2T/L	2,000 2,000	2,000 2,000	III III
ATR-42-500 ATR-42-500	AT45 AT45	2T/L 2T/L	2,000 2,000	2,000 2,000	III III
ATR-72 ATR-72	AT72 AT72	2T/L	2,000	2,000	III

AEROSPATIALE/BRITISH AEROSPACE (France/UK)

(Also BAC, SUD, SUD-BAC)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Concorde	CONC	4J/H	5,000	5,000	III

AIRBUS INDUSTRIES (International)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
A300B2 A300-B	A30B A30B	2J/H 2J/H	3,500 3,500	3,500 3,500	III III
A300B4 - 600 A300-60	A306A A306	2J/H 2J/H	3,500 3,500	3,500 3,500	III III
A310	A310	2J/H	3,500	3,500	III
A319	A319	2J/L	3,500	3,500	III
A320	A320	2J/L	3,500	3,500	III
A321	A321	2J/L	3,500	3,500	III
A330	A330	2J/H	3,500	3,500	III
A340	A340	4J/H	3,500	3,500	III

AIR TRACTOR , INC. (USA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
AIR TRACTOR 401/301	AT3P	1P/S	1,000	-	I

ALON, INC. (USA)

(Also AIR PRODUCTS, ERCO, FORNAIRE, FORNEY, MOONEY)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Aircoupe A2/F-1	ERCO	1P/S	630	630	I

ASTRA JET (USA- see ISRAEL AIRCRAFT INDUSTRIES)

AVIONS MUDRY ET CIE (France) (Now called MUDRY)

(Also CAARP)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Cap 10	CP10	1P/S	1,500	2,000	I
Cap 20	CP20	1P/S	1,500	2,000	I

BEAGLE AIRCRAFT (UK)

(Also BEAGLE-AUSTER)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
B.206 Basset Series	BASS	2P/S	1,200	1,300	II
B.121 Pup Series	PUP	1P/S	575	750	I

BEECH AIRCRAFT COMPANY (USA)

(Also CCF, COLEMILL, DINFIA, EXCALIBUR, FUJI, HAMILTON, JETCRAFTERS, RAYTHEON, SWEARINGEN, VOLPAR)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Beech 1900/C-12J	B190	2T/S+	2,400	2,400	III
Super King Air 350	B350	2T/S+	3,000	3,000	III
King Air 100 A/B (U-21F Ute) A/B (U-21F Ute)	BE10	2T/S	2,250	2,250	II
Stagger Wing 17 (UC-43 Traveler)	BE17	1P/S	1,375	1,375	I
Twin Beech 18 /Super H18/ Super H18	BE18	2P/S	1,400	1,000	II
Sport 19, Musketeer Sport	BE19	1P/S	680	680	I
Super King Air 200, 1300 1300	BE20	2T/S+	2,450	2,500	II
Sundowner 23, Musketeer 23	BE23	1P/S	740	800	I
Sierra 24, Musketeer Super	BE24	1P/S	1,000	1,000	I
Super King Air 300/ 300LW 300LW	BE30	2T/S+	3,000	3,000	III
Bonanza 33, Debonair (E-24)	BE33	1P/S	1,000	1,000	I
Bonanza 35	BE35	1P/S	1,200	1,200	I
Bonanza 36	BE36	1P/S	1,100	1,100	I
Beechjet 400/T-1 Jayhawk	BE40 BE40	2J/S+	3,300	2,200	III
Twin Bonanza 50	BE50	2P/S	1,600	1,600	II

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Baron 55/Chochise	BE55	2P/S	1,700	1,700	II
Baron 58, Foxstar	BE58	2P/S	1,730	1,730	II
Duke 60	BE60	2P/S	1,600	1,600	II
Queen Air 65 (U-8F Seminole) <u>65 (U-8F Seminole)</u>	BE65	2P/S	1,300	1,300	II
Duchess 76	BE76	2P/S	1,500	1,500	II
Skipper 77	BE77	1P/S	750	750	I
Queen Air 80	BE80	2P/S	1,275	1,275	II
Travelair 95	BE95	2P/S	1,250	1,250	II
Airliner 99	BE99	2T/S	1,750	1,750	II
King Air 90, A90 to E90 (T-44, V-C6), Taurus 90	BE9L	2T/S	2,000	2,000	II
Beech F90 King Air	BE9T	2T/S	2,600	2,600	II
Starship 2000	STAR	2T/S+	2,650	2,650	III
Mentor T34A/B, E-17	T34P	1P/S	1,150	1,150	I
Turbo Mentor T-34C	T34T	1T/S	1,100 <u>1,100</u>	1,000 <u>1,000</u>	I
Ute	U21	2T/S	2,000	2,000	II

BELLANCA AIRCRAFT (USA)

(Also AERONCA, CHAMPION, DOWNER, HINDUSTAN, NORTHERN)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Aeronca Chief/Super Chief, Pushpak	AR11	1P/S	500	500	I
Aeronca Sedan	AR15	1P/S	500	500	I
Cruisair, Cruismaster 14-19	B14A	1P/S	1,030	1,030	I
Super Viking, Turbo Viking <u>Turbo Viking</u>	BL17	1P/S	1,100	1,100	I
Decathlon, Super Decathlon, Scout 8 <u>Scout 8</u>	BL8	1P/S	1,000	1,000	I
Champion Lancer 402	CH40	2P/S	650	1,000	II
7 Champion <u>7 Champion Citabria, Traveler, Tri-Con, Tri-Traveler, Champ</u> 7AC/7ACA/7BCM/7CC/7CCM/7DC/7EC/7ECA/7FC/7JC <u>7AC/7ACA/7BCM/7CC/7CCM/7DC/7EC/7ECA/7FC/7JC</u>	CH7A <u>CH7A</u>	1P/S <u>1P/S</u>	750 <u>750</u>	750 <u>750</u>	I <u>I</u>
7 Champion	CH7B <u>CH7B</u>	1P/S <u>1P/S</u>	1,100 <u>1,100</u>	1,100 <u>1,100</u>	I <u>I</u>

<u>7GC/7GCA/7GCAA/7GCB/7GCB</u> <u>A/7GCBC/7HC/7KC/7KCAB7</u> Champion Challenger, Citabria, DX'er, Olympia, SkyTrac <u>7GC/7GCA/7GCAA/7GCB/7GCB</u> <u>A/7GCBC/7HC/7KC/7KCAB</u>			0	0	
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BOEING COMPANY (USA)

(Also GRUMMAN, NORTHROP-GRUMMAN, IAI)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Stratofortress	B52	8J/H	3,000	3,000	III
<u>707-100, VC-137707-100, VC-137</u>	<u>B701</u>	<u>4J/H</u>	<u>3,500</u>	<u>3,500</u>	<u>III</u>
<u>707-300, E-8 J-Stars, EC-137</u>	<u>B703</u>	<u>4J/H</u>	<u>3,500</u>	<u>3,500</u>	<u>III</u>
<u>717-200</u>	<u>B712</u>	<u>2J/L</u>	<u>:</u>	<u>:</u>	<u>III</u>
720	B720	4J/L	3,000	3,000	III
<u>727-100 (C-22)</u>	<u>B721</u>	<u>3J/L</u>	<u>4,500</u>	<u>4,500</u>	<u>III</u>
<u>727-200</u>	<u>B722</u>	<u>3J/L</u>	<u>4,500</u>	<u>4,500</u>	<u>III</u>
<u>727 Stage 3 (-100 or -200)</u>	<u>B72Q</u>	<u>3J/L</u>	<u>4,500</u>	<u>4,500</u>	<u>III</u>
<u>737-100</u>	<u>B731</u>	<u>2J/L</u>	<u>3,000</u>	<u>3,000</u>	<u>III</u>
<u>737-200 (Surveiller, CT-43, VC-96)</u>	<u>B732</u>	<u>2J/L</u>	<u>3,000</u>	<u>3,000</u>	<u>III</u>
<u>B737 Stage 3</u>	<u>B73Q</u>	<u>2J/L</u>	<u>3,000</u>	<u>3,000</u>	<u>III</u>
<u>737-300</u>	<u>B733</u>	<u>2J/L</u>	<u>5,500</u>	<u>3,500</u>	<u>III</u>
<u>737-400</u>	<u>B734</u>	<u>2J/L</u>	<u>6,500</u>	<u>3,500</u>	<u>III</u>
<u>737-500</u>	<u>B735</u>	<u>2J/L</u>	<u>5,500</u>	<u>3,500</u>	<u>III</u>
<u>737-600</u>	<u>B736</u>	<u>2J/L</u>	<u>4,000</u>	<u>4,000</u>	<u>III</u>
<u>737-700</u>	<u>B737</u>	<u>2J/L</u>	<u>4,000</u>	<u>4,000</u>	<u>III</u>
<u>737-800</u>	<u>B738</u>	<u>2J/L</u>	<u>4,000</u>	<u>4,000</u>	<u>III</u>
<u>747-100</u>	<u>B741</u>	<u>4J/H</u>	<u>3,000</u>	<u>3,000</u>	<u>III</u>
<u>747-200</u>	<u>B742</u>	<u>4J/H</u>	<u>3,000</u>	<u>3,000</u>	<u>III</u>
<u>747-300</u>	<u>B743</u>	<u>4J/H</u>	<u>3,000</u>	<u>3,000</u>	<u>III</u>
<u>747-400</u>	<u>B744</u>	<u>4J/H</u>	<u>3,000</u>	<u>3,000</u>	<u>III</u>
<u>747SR</u>	<u>B74R</u>	<u>4J/H</u>	<u>3,000</u>	<u>3,000</u>	<u>III</u>
747SP/SUD	B74S	4J/H	3,000	3,000	III
<u>757-200</u>	<u>B752</u>	<u>2J/L</u>	<u>3,500</u>	<u>2,500</u>	<u>III</u>
<u>757-300</u>	<u>B753</u>	<u>2J/L</u>	<u>3,500</u>	<u>2,500</u>	<u>III</u>
<u>767-200</u>	<u>B762</u>	<u>2J/H</u>	<u>3,500</u>	<u>3,500</u>	<u>III</u>
<u>767-300</u>	<u>B763</u>	<u>2J/H</u>	<u>3,500</u>	<u>3,500</u>	<u>III</u>
<u>767 AWACS (E-767)</u>	<u>E767</u>	<u>2J/H</u>	<u>2,500</u>	<u>2,500</u>	<u>III</u>
<u>777-200</u>	<u>B772</u>	<u>2J/H</u>	<u>2,500</u>	<u>2,500</u>	<u>III</u>
<u>777-300</u>	<u>B773</u>	<u>2J/H</u>	<u>2,500</u>	<u>2,500</u>	<u>III</u>
<u>C-135 Stratolifter (EC-135, NKC-</u>	<u>C135</u>	<u>4J/H</u>	<u>2,000</u>	<u>2,000</u>	<u>III</u>

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<u>135, OC-135, TC-135, WC-135)</u>					
<u>Stratotanker KC-135A (J57)</u>	<u>K35A</u>	<u>4J/H</u>	<u>2,500</u>	<u>3,000</u>	<u>III</u>
<u>Stratotanker KC-135D/E (TF33)</u>	<u>K35E</u>	<u>4J/L</u>	<u>5,000</u>	<u>3,000</u>	<u>III</u>
<u>Stratotanker KC-135R/T</u> <u>(CFM56)</u>	<u>K35R</u>	<u>4J/H</u>	<u>5,000</u>	<u>3,000</u>	<u>III</u>

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
<u>RC-135</u>	<u>R135</u>	<u>4J/H</u>	<u>3,000</u>	<u>3,000</u>	<u>III</u>
Stratofreighter	C97	4P/L	2,500	3,000	III
E-3A (TF33)/B/C- TF33 /B/C Sentry	E3TF <u>E3TF</u>	4J/H	3,500	4,000	III
<u>E6 Mercury</u>	<u>E6</u>	<u>4J/</u>	<u>3,500</u>	<u>3,500</u>	<u>III</u>
<u>KE-3</u>	<u>KE3</u>	<u>4J/</u>	<u>3,500</u>	<u>3,500</u>	<u>III</u>
Stearman	ST75	1P/S	840	840	I

BRITISH AEROSPACE (BAe) (UK)

(Also AIL, AVRO, BAC, BUCURESTI, DE HAVILLAND, HANDLEY-PAGE, HAWKER-SIDDELEY, JETSTREAM, KANPUR, MCDONNELL-DOUGLAS, RAYTHEON, SCOTTISH-AVIATION, VOLPAR)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
BAe HS 748 (Andover, C-91)	A748	2T/L	2,500	2,000	III
Jetstream 61, Advance Turboprop (ATP)	ATP	2T/L	3,000	3,000	III
BAC One-Eleven	BA11	2J/L	2,400	2,400	III
BAe 146, RJ, Quiet Trader, Avroliner	BA46	4J/L	3,500	3,500	III
BAe HS 125 Series 1/2/3/400/600	H25A	2J/S+	2,500	2,000	III
BAe HS 125 Series 700/800	H25B	2J/S+	3,000	4,000	III
BAe HS 125 Series 1000	H25C	2J/S+	3,000	4,000	III
BAe Harrier	HAR*	1J/L	5,000	8,000	III
<u>Jetstream 1</u>	<u>JS1</u>	<u>2T/S+</u>	<u>2,200</u>	<u>2,200</u>	<u>III</u>
<u>Jetstream 200</u>	<u>JS20</u>	<u>2T/S+</u>	<u>2,200</u>	<u>2,200</u>	<u>III</u>
<u>Jetstream 3</u>	<u>JS3</u>	<u>2T/S+</u>	<u>2,200</u>	<u>2,300</u>	<u>III</u>
<u>BAe-3100 Jetstream 31</u>	<u>JS31 JS31</u>	2T/S+	2,200 , <u>2,300</u>	2,200 , <u>2,300</u>	III
<u>BAe-3200 Jetstream Super 31</u>	<u>JS32</u>	<u>2T/S+</u>	<u>2,600</u>	<u>2,600</u>	<u>III</u>
<u>BAe-4100 Jetstream 41</u> Jetstream-41, 4100,	<u>JS41 JS41</u>	2T/L	2,200	-	III

BRITTEN NORMAN LTD. (a subsidiary of Pilatus Aircraft LTD.) (UK)

(Also AVIONS FAIREY, BAC, BUCURESTI, DE HAVILLAND, HAWKER-SIDDELEY, IRMA, PADC, ROMAERO, VICKERS)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
BN-2A/B Islander, Defender	BN2P	2P/S	1,250	1,250	II
BN-2T Turbine Islander, Turbine Defender	BN2T	2T/S	1,500	1,500	II
Trident	TRID	3J/L	3,000	3,000	III
BN-2A Mark III Trislander	TRIS	3P/S	1,200	1,000	III
VC-10	VC10	4J/H	1,900	2,000	III
Viscount	VISC	4T/L	1,200	1,500	III

BUSHMASTER AIRCRAFT CORP. (USA)
(Now AIRCRAFT HYDRO-FORMING)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Bushmaster 2000	BU20	3P/S+	2,000	2,000	III

CAMAIR AIRCRAFT CORP. (USA)

(Also RILEY, TEMCO)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Twin Navion 480, 55, D-16	TNAV	2P/S	1,800	2,000	II

CANADAIR BOMBARDIER LTD. (Canada)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
REGIONAL JET	CARJ	2J/L	3,000 3,000	-	III
CL600/610 Challenger	CL60	2J/L	2,250	3,000	III

CESSNA AIRCRAFT COMPANY (USA)

(Also AVIONES-COLOMBIA, COLEMILL, DINFIA, ECTOR, FMA, FUJI, REIMS, RILEY, SUMMIT, WREN)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Dragonfly 318E	A37*	2J/S	3,370	3,000	III
Cessna 120	C120	1P/S	640	640	I
Cessna 140	C140	1P/S	640	640	I
Cessna 150	C150	1P/S	670	1,000	I
Cessna 152	C152	1P/S	750	1,000	I
Cessna 170	C170	1P/S	690	1,000	I
Skyhawk 172/Cutlass/Mescalero	C172	1P/S	650	1,000	I
Cutlass RG, 172RG	C72R	1P/S	650 650	1,000 1,000	I
Skylark 175	C175	1P/S	850	1,000	I
Cardinal 177	C177	1P/S	850	1,000	I
<u>Cardinal RG, 177RG</u>	<u>C77R</u>	<u>1P/S</u>	<u>850</u>	<u>1,000</u>	<u>I</u>
Skywagon 180 (U-17C)	C180	1P/S	1,130	1,130	I
Skylane 182	C182	1P/S	890	1,000	I
Skylane RG, Turbo Skylane RG, R182, TR182	C82R	1P/S	890	1,000	I
Skywagon 185 (U-17A/B)	C185	1P/S	1,000	1,000	I
AGWagon/AGTruck/AGHusky 188	C188	1P/S	1,000	1,000	I
Cessna 190	C190	1P/S	1,090	1,090	I
Cessna 195	C195	1P/S	1,200	1,200	I
Super Skywagon/Super Skylane	C205	1P/S	965	1,000	I
Stationair 6, Turbo Stationair 6	C206	1P/S	975	1,000	I
Stationair/Turbo Stationair 7/8	C207	1P/S	810	1,000	I
Caravan 1- 208,(Super) Cargomaster, Grand Caravan (U27)	C208	1T/S	1,400	1,400	I
Centurion 210, Turbo Centurion	C210	1P/S	900	1,000	I
<u>Pressurized Centurion</u>	<u>P210</u>	<u>1P/S</u>	<u>1,000</u>	<u>1,000</u>	<u>I</u>
Crusader 303	C303	2P/S	3,500	3,000	II
Cessna 310 / Riley 65, Rocket	C310	2P/S	2,800	2,000	II
Skyknight 320	C320	2P/S	2,900	2,000	II
Cessna 335	C335	2P/S	2,200	2,000	II
Skymaster 336	C336	2P/S	1,340	1,340	II
Super Skymaster 337	C337	2P/S	1,250	1,500	II
Pressurized Skymaster T337G, P337	P337	2P/S	1,250	1,500	II
Cessna 340	C340	2P/S	2,900	2,000	II

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Cessna 401, 402 402, Utiliner, Businessliner	C402	2P/S	2,500	2,000	II
Titan 404	C404	2P/S	2,600	2,000	II
Caravan 2 - F406	F406	2T/S	1,850	-	II
Cessna 411	C411	2P/S	2,800	2,000	II
Chancellor 414, Rocket Power	C414	2P/S	2,300	2,000	II
Golden Eagle 421	C421	2P/S	3,200	2,000	II
Corsair/Conquest I-425	C425	2T/S	3,500	2,500	II
Conquest/Conquest 2 - 441	C441	2T/S	4,200	3,000	II
Citation 1	C500	2J/S	3,100	3,500	III
Citation 1-SP	C501 C501	2J/S	4,300	3,000	III
Citationjet C525	C525	2J/S	3,000	-	III
Citationjet C526	C526	2J/S	3,000	-	III
Citation 2/-S2	C550	2J/S+	5,300	3,000	III
Citation 2-SP	C551 C551	2J/S 2J/S	5,300	3,000	III
Citation 5	C560	2J/S+	6,000	3,500	III
Citation 3/6/7	C650	2J/S+	3,900	4,000	III
<u>Citation 10</u>	<u>C750</u>	<u>2J/S+</u>	<u>3,500</u>	<u>3,500</u>	<u>III</u>
Bird Dog 305/321	O1	1P/S	1,150	1,150	I
Cessna 318	T37*	2J/S	3,000	3,000	III

CHAMPION (USA-see Bellanca Aircraft)

CONSTRUCCIONES AERONAUTICAS (CASA) (Spain)

(Also NURTANIO, NUSANTARA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
C-212 Aviocar	C212	2T/S+	900	900	III

CHRISTEN INDUSTRIES, INC. (USA)

(Also AVIAT)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
A-1 Huskey	HUSK	1P/S	1,500	1,500	I

COLEMILL (USA) (See BEECH, PIPER, CESSNA)

CURTIS-WRIGHT CORP. (USA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Commando C-46 (CW-20)	C46	2P/L	600	700	III

DASSAULT-BREGUET (France)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Falcon 10, Mystere 10	FA10	2J/S+	2,300	1,600	III
Falcon 20, Mystere 20 (T-44) Falcon 20, Mystere 20 (T-11)	FA20	2J/S+	2,000	2,200	III
Falcon 50, Mystere 50 (T-16)	FA50	3J/S+	1,800	1,600	III
Falcon 900, Mystere 900 (T-18)	F900	3J/L	2,000	1,700	III
Falcon 2000	F2TH	2J/S+	2,500	1,500	III

DEHAVILLAND (Canada/UK)

(Also AIRTECH, HAWKER-SIDDELEY, OGMA, RILEY, SCENIC)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Comet DH-106 Comet DH-106	COMT	4J/L	2,900	2,000	III
Chipmunk DHC-1	DHC1	1P/S	900	1,000	I
Beaver DHC-2	DHC2	1P/S	840	1,000	I
Turbo Beaver DHC-2T	DH2T	1T/S	1,220	1,000	I

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Otter DHC-3	DHC3	1P/S	750	1,000	I
Caribou DHC-4	DHC4	2P/S+	1,350	1,000	III
Buffalo DHC-5D/E	DHC5	2T/L	2,000	1,500	III
Twin Otter DHC-6 (all series)	DHC6	2T/S	1,600	1,800	II
Dash 7 DHC-7	DHC7	4T/L	4,000	4,000	III
<u>Dash 8, DHC8 - 100</u>	<u>DH8A</u>	<u>2T/S+</u>	<u>1,500</u>	<u>1,500</u>	<u>III</u>
<u>Dash 8, DHC8 - 200</u>	<u>DH8B</u>	<u>2T/S+</u>	<u>1,500</u>	<u>1,500</u>	<u>III</u>
<u>Dash 8, DHC8 - 300</u>	<u>DH8C</u>	<u>2T/L</u>	<u>1,500</u>	<u>1,500</u>	<u>III</u>
<u>Dash 8, DHC8 - 400</u>	<u>DH8D</u>	<u>2T/L</u>	<u>2,500</u>	<u>2,500</u>	<u>III</u>
Dove DH-104	DOVE	2P/S	1,420	1,420	II
Heron DH-114	HERN	4P/S+	1,075	1,075	III

DIAMOND (Canada)

(Also HOAC)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
DV-20 Katana, <u>DA-22 Speed Katana</u>	DV20	1P/S	730	-	I

DORNIER GmbH (FRG)

(Also CASA, HINDUSTAN)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Do 228-100/ <u>200-200</u> Series	D228	2T/S+	2,000	2,000	III
Do 328 Series	D328	2T/S+	2,000	2,000	III
Do 27	DO27	1P/S	700	800	I
Do 28 A/B (Agur)	DO28	2P/S	1,500	1,500	II
Do 28D/D-1/D-2, 128-2 Skyservant	D28D	2P/S	1,000 1,000	-	II
Do-28D-6, 128-6 Turbo Skyservant	D28T	2T/S	1,500 1,500	-	II

EMBRAER (Brazil)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Bandeirante EMB-110/111	E110	2T/S+	1,500	1,500	II
Brasilia EMB-120	E120	2T/S+	2,300	2,300	III
EMB-145	E145	2J/L	2,350	-	III

EXTRA (Germany) EXTRA (Germany)

<u>Model</u>	<u>Type Designator</u>	<u>Description</u>	<u>Performance Information</u>		
			<u>Number & Type Engines/Weight Class</u>	<u>Climb Rate (fpm)</u>	<u>Descent Rate (fpm)</u>
<u>Extra 200</u>	<u>E200</u>	<u>1P/S</u>	<u>1,000</u>	<u>1,000</u>	<u>I</u>
<u>Extra 230</u>	<u>E230</u>	<u>1P/S</u>	<u>1,500</u>	<u>1,500</u>	<u>I</u>
<u>Extra 300, 350</u>	<u>E300</u>	<u>1P/S</u>	<u>2,500</u>	<u>1,500</u>	<u>I</u>
<u>Extra 400</u>	<u>E400</u>	<u>1P/S</u>	<u>1,500</u>	<u>1,500</u>	<u>I</u>

FAIRCHILD INDUSTRIES (USA-includes Swearingen Aviation)

(Also CONAIR, FAIRCHILD-HILLER, FLEET, FOKKER, KAISER, PILATUS, SWEARINGEN)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Thunderbolt II	A10*	2J/L	6,000	5,000	III
Flying Box Car	C119	2P/L	750	750	III
Provider	C123	2P/L	890	1,000	III
Friendship F27, F227 <u>F227</u> , Troopship, Maritime, Firefighter	F27	2T/L	3,000	3,000	III
Cornell	FA62	1P/S	650	650	I
Pilatus/Peacemaker/Porter	PC6P	1P/S	580	600	I
Turbo Porter	PC6T	1T/S	580	600	I
Merlin 2	SW2	2T/S	2,350	2,500	II
Merlin 3	SW3	2T/S+	2,350	2,500	III
Metro, Merlin 4	SW4	2T/S+	2,400	2,500	III

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FOKKER BV (Netherlands)

(Also FAIRCHILD, FAIRCHILD-HILLER)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Friendship F27, Troopship, Maritime, Firefighter	F27	2T/L	3,000	3,000	III
Fellowship F28	F28	2J/L	4,650	2,000	III
Fokker 50, Maritime Enforcer	F50	2T/L	3,500	3,500	III
<u>Fokker 60</u>	<u>F60</u>	<u>2T/L</u>	<u>3,500</u>	<u>3,500</u>	<u>III</u>
<u>Fokker 70</u>	<u>F70</u>	<u>2J/L</u>	<u>4,500</u>	<u>3,000</u>	<u>III</u>
Fokker 100	F100	2J/L	3,500	3,500	III

GATES LEARJET CORP. (USA)

(Also LEAR JET, LEARJET, SHIN MEIWA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Learjet 23	LJ23	2J/S	4,500	4,000	III
Learjet 24	LJ24	2J/S+	4,500	4,000	III
Learjet 25	LJ25	2J/S+	4,500	4,000	III
Learjet 28, <u>2929</u>	LJ28	2J/S+	4,500	4,000	III
Learjet 31	LJ31	2J/S+	4,500	4,000	III
Learjet 35, <u>3636</u>	LJ35	2J/S+	4,500	4,000	III
Learjet 55	LJ55	2J/S+	5,000	4,000	III
Learjet 60	LJ60	2J/S+	5,000	4,000	III

GENERAL DYNAMICS CORP. (USA)

(Also BOEING CANADA, CANADAIR, CANADIAN VICKERS, CONSOLIDATED, CONVAIR, FOKKER, KELOWNA, LOCKHEED, LOCKHEED MARTIN, MITSUBISHI, SABCA, SAMSUNG, TUSAS)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Canso/Catalina***	CAT	2P/S+	600	600	III
Convair 990	CV99	4J/L	2,500	2,500	III
Convair 240/ 340/440, Liner, Samaritan <u>340/440, Liner, Samaritan</u>	CVLP	2P/L	1,000	800	III
Convair 540/580/ 600/640 <u>600/640</u>	CVLT	2T/L	1,500	1,500	III
F-111/FB-111	F111*	2J/L	5,000	5,000	III
Fighting Falcon	F16*	1J/L	8,000	5,000	III
Valiant	VALI	1P/S	600	750	I

GOVERNMENT AIRCRAFT FACTORIES (Australia) (Now GAF)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
N2/22/24 <u>N2/22/24</u> Nomad	NOMA	2T/S	1,300	1,100	II

GREAT LAKES (USA) GREAT LAKES (USA)

<u>Model</u>	<u>Type Designator</u>	<u>Description</u>	<u>Performance Information</u>		
			<u>Number & Type Engines/Weight Class</u>	<u>Climb Rate (fpm)</u>	<u>Descent Rate (fpm)</u>
<u>Sport Trainer, Sport, 2T-1</u>	<u>G2T1</u>	<u>1P/S</u>	<u>1,000</u>	<u>800</u>	<u>I</u>

GROB (Germany)

GROB (Germany)

<u>Model</u>	<u>Type Designator</u>	<u>Description</u>	<u>Performance Information</u>		
			<u>Number & Type Engines/Weight Class</u>	<u>Climb Rate (fpm)</u>	<u>Descent Rate (fpm)</u>

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<u>G109 Ranger (Vigilant)</u>	<u>G109</u>	<u>1P/S</u>	<u>600</u>	<u>600</u>	<u>I</u>
<u>G115 A/B/C/D, Bavarian (Heron)</u>	<u>G115</u>	<u>1P/S</u>	<u>1,200</u>	<u>1,100</u>	<u>I</u>

GRUMMAN AEROSPACE CORP. (USA)

(Also AERO MOD, AMERICAN GENERAL, GRUMMAN AMERICAN, GULFSTREAM AMERICAN, MID-CONTINENT, NORTHROP GRUMMAN, SERV-AERO)

Model	Type Designator	Description	Performance Information		
	New Designator		Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Intruder, Prowler	A6*	2J/L	7,500	5,000	III
AA1 Trainer, Yankee, TR/TS-2, T-Cat, Lynx AA1 Trainer, Yankee, TR/TS-2, T-Cat, Lynx	AA1	1P/S	850	1,250	I
Cheetah AA-5, Traveller, Tiger	AA5	1P/S	660	1,000	I
Greyhound	C2	2T/L	1,000	2,200	III
Hawkeye, Daya	E2	2T/L	2,690	3,000	III
Tomcat	F14*	2J/L	6,000	4,000	III
Model G-164 Ag-Cat, Super Ag-Cat, King Cat	G164	1P/S	1,500	1,500	I
Model G164 Turbo Ag-Cat	G64T	1T/s	1,500	1,500	I
Goose/Super Goose	G21	2P/S+	1,000	1,000	III
Widgeon/Super Widgeon	G44	2P/S+	1,000	1,500	III
Mallard***	G73	2P/S+	1,600	1,600	III
Cougar GA-7	GA7	2P/S	1,600	1,500	II
Albatross***	U16	2P/S+	1,500	1,500	III
Mohawk	V1	2T/S+	2,100	1,300	I

GULFSTREAM AEROSPACE CORP. (USA)

(Also GRUMMAN, GRUMMAN AMERICAN, GULFSTREAM, GULFSTREAM AMERICAN)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
GAC 159-C, Gulfstream 1	G159	2T/S+	2,000	2,000	III
Gulfstream 2	GLF2 GLF2	2J/L	5,000	4,000	III
Gulfstream 3	GLF3 GLF3	2J/L	5,000	4,000	III
<u>Gulfstream 4</u>	<u>GLF4</u>	<u>2J/L</u>	<u>5,000</u>	<u>4,000</u>	<u>III</u>
<u>Gulfstream 5</u>	<u>GLF5</u>	<u>2J/L</u>	<u>5,000</u>	<u>4,000</u>	<u>III</u>

HAMBURGER FLUGZEUBAU (FRG) (Now HFB)

(Also MBB)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
HFB-320 Hansajet	HF20	2J/S+	4,500	4,500	III

HANDLEY PAGE (UK)

(Also BRITISH AEROSPACE, JETSTREAM, SCOTTISH AVIATION, VOLPAR)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Jetstream HP-137 <u>Jetstream 1/ Super 31</u>	JS31 <u>JS1</u>	2T/S+	2,200 <u>2,100</u>	2,100 <u>2,100</u>	III <u>III</u>
<u>HP-137 Jetstream 200</u>	<u>JS20</u>	<u>2T/S+</u>	<u>2,200</u>	<u>2,200</u>	<u>III</u>

HAMILTON AVIATION (USA)

(Also VOLPAR)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Westwind 2/3, Turbo 18, Turboliner	B18T	2T/S	2,000	2,000	II

HELIO AIRCRAFT COMPANY (USA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Courier, Strato-Courier, Super Courier (H-391/392/395/250/295/700/800) <u>Strato-Courier, Super Courier (H-391/392/395/250/295/700/800)</u>	COUR	1P/S	850	1,000	I
H-550/A Stallion	STLN	1T/S	2,200	2,200	I
H-580 Twin Courier	TCOU	2P/S	1,250	1,500	II

HOWARD (USA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
DG-15P, -15W, -15J	DG15	1P/S	1,000	1,000	I

ILYUSHIN (USSR)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
IL-62	IL62	4J/H	3,500	2,500	III
IL-76 / 78	IL76	4J/H	3,000	2,500	III

ISRAEL AIRCRAFT INDUSTRIES (Israel)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
101 Avara, 102, 201, 202	ARVA	2T/S+	1,300	1,000	III
1123 Westwind	WW23	2J/S+	4,000	3,500	III
1124 Westwind <u>1124 Westwind</u>	WW24	2J/S+	4,000	3,500	III

ISRAEL AIRCRAFT INDUSTRIES & ASTRA JET (Israel/USA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Astra 1125	ASTR	2J/S+	4,000	3,500	III

JETSTREAM (UK – see British Aerospace)

JETSTREAM (UK - see British Aerospace)

LAKE AIRCRAFT (USA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
LA-250/270 (Turbo Renegade/ (Turbo) SeaFury***, Seawolf <u>Turbo Renegade/ (Turbo) SeaFury***, Seawolf</u>)	LA25	1P/S	700	700	I
LA-4/ 200-, 200, Buccaneer***	LA4	1P/S	1,100	1,000	I

LOCKHEED CORP. (USA)

(Also AERITALIA, CANADAI, FIAT, FOKKER, HOWARD, LEAR, LOCKHEED-MARTIN, MBB, MESSERSCHMITT, MITSUBISHI, PACAERO, ROCKWELL, SABCA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Hercules, Spectre	C130	4T/L	1,500	1,500	III
C-141 Starlifter	C141	4J/H	3,500	3,000	III
C-5 Galaxy	C5	4J/H	2,500	2,000	III
Constellation, Super Constellation, Starliner (L-049/749/1049/1649) <u>Constellation, Starliner (L-049/749/1049/1649)</u>	CONI	4P/L	1,700	1,700	III
F-104 Starfighter	F104*	1J/L	5,000	4,000	III
L-1011 Tri-Star (all series)	L101	3J/H	3,500	3,000	III
Lodestar	L18	2P/L	1,800	2,000	III
Electra 188	L188	4T/L	1,850	2,000	III
1329 Jetstar 6/8	L29A	4J/L	4,000	3,500	III
1329-5 Jetstar 2/731	L29B	4J/L	4,000	3,000	III
Orion, Aurora (L-185/285/685/785)	P3	4T/L	1,850	2,000	III
Viking S-3	S3	2J/L	2,000	2,000	III
T-33, T-Bird, F-80 Shooting Star <u>F-80 Shooting Star</u>	T33*	2J/L	2,000	2,000	III
TR-1 Trigull	TR1*	1J/L	6,000	6,000	III
U-2	U2*	1J/S+	6,000	6,000	III

MARTIN COMPANY (Division of Martin Marietta) (USA)

Model	Type	Description	Performance Information
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A-22
Wing

Aircraft Information - Fixed

	Designator	Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)	SRS Cat.

MAULE AIRCRAFT CORP. (USA)

(Also SAASA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
M-4 Strata-Rocket, Astro Rocket, Bee-Dee, Jetasen, Super Rocket	M4	1P/S	1,000	1,000	I
M-5 180C/200/235C Lunar-Rocket, 210TC Strata-Rocket, Patroller	M5	1P/S	1,000	1,000	I
M-6 Super-Rocket	M6	1P/S	1,500	1,000	I
M-7-235, MT-7, MX-7-160/180/235, MXT-7-160/180 Super Rocket, Star Rocket	M7	1P/S	825	-	I
M-7-420, MX-7-420, MXT-7-420 Star Craft	M7T	1T/S	4,500	-	I

MCDONNELL-DOUGLAS CORP. (USA)

(Also ASTA, DOUGLAS, GAF, LISUNOV, MITSUBISHI, ON MARK, SHANGHAI, VALMET)

Model	Type Designator	Description	Performance Information		
	New Designator		Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Skywarrior	A3*	2J/L	5,000	6,000	III
Skyhawk	A4*	1J/L	5,000	5,000	III
Invader	B26	2P/L	1,000	1,000	III
Globemaster 3	C17	4J/H	-	-	III
DC-10 (all series)	DC10	3J/H	2,400	2,000	III
Skytrain (C-47, C-53, C-117 A/B/C, R4D 1 to 7)	DC3	2P/S+	1,200	1,200	III
Super DC-3 (C-117D, R4D 8)	DC3S	2P/S+	1,330	1,330	III
Skymaster	DC4	4P/L	2,300	2,300	III
DC-6/B Liftmaster	DC6	4P/L	1,000	1,000	III
DC-7/B/C Seven Seas	DC7	4P/L	1,250	1,250	III
<u>DC-8-50, Jet Trader</u>	<u>DC85</u>	<u>4J/H</u>	<u>4,000</u>	<u>4,000</u>	<u>III</u>
<u>DC-8-60</u>	<u>DC86</u>	<u>4J/H</u>	<u>4,000</u>	<u>4,000</u>	<u>III</u>
<u>DC-8-70</u>	<u>DC87</u>	<u>4J/H</u>	<u>5,000</u>	<u>4,000</u>	<u>III</u>
<u>DC-8 Stage 3</u>	<u>DC8Q</u>	<u>4J/H</u>	<u>4,000</u>	<u>4,000</u>	<u>III</u>
DC-9, Skytrain 2, Nightingale	DC9	2J/L	3,000	3,000	III

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<u>DC-9 Stage 3</u>	<u>DC9Q</u>	<u>2J/L</u>	<u>3,000</u>	<u>3,000</u>	<u>III</u>
F-15 Eagle	F15*	2J/L	8,000	5,000	III
F/A-18 Hornet	F18	2J/L	8,000	6,000	III
Phantom 2	F4*	2J/L	8,000	6,000	III
MD-11	MD11	3J/H	-	-	III

Model	Type Designator	Description	Performance Information		
	New Designator		Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
MD-80 Series	MD80	2J/L	3,500	3,000	III
MD-90	MD90	2JL	-	-	III

MESSERSCHMITT-BOLKOW-BLOHM (MBB) (FRG)

(Also BOLKOW, HFB, NORD)

Model	Type Designator	Description	Performance Information		
		Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)	SRS Cat.
BO 209 Monsun	B209	1P/S	1,100	1,100	I
HFB 320 Hansa Jet	HF20	2J/S+	3,500	3,000	III
ME 108 Taifun	ME08	1P/S	400	500	III

MITSUBISHI AIRCRAFT INTERNATIONAL INC. (USA/Japan)

(Also BEECH, RAYTHEON)

Model	Type Designator	Description	Performance Information		
		Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)	SRS Cat.
Mitsubishi MU-2, Marquise, Solitaire Marquise, Solitaire	MU2	2T/S	3,500	3,000	II
Mitsubishi Diamond I/MU-300	MU30	2J/S+	3,500	4,000	III

MOONEY AIRCRAFT CORP. (USA)

(Also AEROSTAR)

Model	Type Designator	Description	Performance Information		
	New Designator		Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
M-18 Mooney Mite, Wee Scotsman	MITE	1P/S	750	750	I
Mark 10 Cadet	M10	1P/S	800	800	I
<u>M20/A/B/C/D/E/F/G/J/L/R, Mark 21, Ranger, master, Super 21, Chaparral, Executive, Statesman, Ovation, 201, 205, ATS, MSE, PFM.</u>	<u>M20P</u>	<u>1P/S</u>	<u>1,000</u>	<u>1,000</u>	<u>I</u>
<u>Turbo Mooney M20K/M20M, Encore, 231, 252, TLS, TSE</u>	<u>M20T</u>	<u>1P/S</u>	<u>1,500</u>	<u>1,200</u>	<u>I</u>
Mark 22, Mustang	M22	1P/S	1,300	1,300	I

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MUDRY (See AVIONS MUDRY ET CIE)

NAVION RANGEMASTER AIRCRAFT CORP. (USA)

(Also CAMAIR, RILEY, TEMCO)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Rangemaster	RANG	1P/S	1,250	1,500	I
Twin Navion 480, 55	TNAV	2P/S	1,800	1,500	II

NAMC (Japan)

(Also MITSUBISHI)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
YS-11	YS11	2T/L	1,500	1,500	III

NOORDYUN AVIATION LTD. (Canada)

(Also CCF)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Norseman Mk 4/5/6 <u>4/5/6</u>	NORS	1P/S	700	1,000	I

NORD AVIATION (Affiliate of Aerospatiale) (France)

(Also HOLSTE, NORDFLUG, TRANSALL)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Transall C-160	C160	2T/L	2,000	2,000	III
Super Broussard 260	N260	2T/S+	2,500	2,000	III
Mohawk 298, Fregate	N262	2T/S+	2,500	2,000	III
Nortatlas 2501 to 2508	NORA	2P/L	1,500	1,500	III

NORTHERN AVIATION (USA-see Bellanca)

NORTHROP CORP. (USA)

(Also CANADAIR, CASA, AIDC, F+W EMMEN, KOREAN AIR)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Freedom Fighter Tiger II	F5*	2J/S+	8,000	5,000	III
T-38 Talon	T38*	2J/S+	8,000	5,000	III

PARTENAVIA COSTRUZIONI AERONAUTICHE SpA (Italy)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
P66/64 Charlie, Oscar	OSCR	1P/S	800	1,000	I
P68/B/C/-TC,Victor, Observer/P68R	P68	2P/S	1,200	1,000	I

PARTENAVIA & AERITALIA (Italy)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
AP68TP-300 Spartacus	P68T	2T/S	1,500	1,500	II
AP68TP-600, Viator	VTOR	2T/S	1,500	1,500	II

PIAGGIO (Industrie Aeronautiche E Meccaniche Rinaldo Piaggio SpA) (Italy)

(Also PIAGGIO-DOUGLAS, TRECKER)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
P136 Gull***	P136	2P/S	1,250	1,500	II
P166 Portofino***, Albatross	P66P	2P/S	1,350	1,500	II
Vespa Jet PD808	P808	2J/S+	4,000	3,500	III

PILATUS FLUGZEUGWERKE AG (Switzerland)

(Also FAIRCHILD, FAIRCHILD-HILLER)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
PC-6 Porter	PC6P	1P/S	600	600	I
PC-6A/B/C Turbo Porter	PC6T	1T/S	1,250	1,500	I
PC-7 Turbo Trainer	PC7	1T/S	2,800	-	I
PC-12	PC12	1T/S	1,900	-	I

PIPER AIRCRAFT CORP. (USA)

(Also AEROSTAR, AICSA, CHINCUL, COLEMILL, EMBRAER, INDAER CHILE, JOHNSTON, MACHEN, MILLER, NIEVA, SCHAFFER, SEGUIN, PZL-MIELEC, TED SMITH, WAGAERO)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Aero Star 600/700	AEST	2P/S	1,500	1,500	II
J-2 Cub	J2	1P/S	500	500	I
<u>J-3 Cub</u>	<u>J3</u>	<u>1P/S</u>	<u>500</u>	<u>500</u>	<u>I</u>
<u>J-4 Cub Coupe</u>	<u>J4</u>	<u>1P/S</u>	<u>500</u>	<u>500</u>	<u>I</u>
J-5 Cub Cruiser	J5	1P/S	500	500	I
Cub Special	PA11	1P/S	500	500	I
Super Cruiser	PA12	1P/S	600	600	I
Family Cruiser	PA14	1P/S	600	600	I
Vagabond Trainer	PA15	1P/S	500	500	I
Clipper	PA16	1P/S	500	500	I
Vagabond	PA17	1P/S	500	500	I
Super Cub	PA18	1P/S	1,000	1,000	I
Pacer	PA20	1P/S	850	1,000	I
Tri-Pacer, Colt, Caribbean	PA22	1P/S	1,000	1,000	I
Apache 150/160	PA23	2P/S	1,050	1,000	II
Comanche	PA24	1P/S	900	1,000	I
Pawnee	PA25	1P/S	650	650	I
Aztec. Turbo Aztec	PA27	2P/S	1,500	1,500	II
<u>Cherokee, Archer, Warrior, Cadet, Cruiser (PA-28-140/150/151/ 160/161/180/181)</u>	<u>P28A</u>	<u>1P/S</u>	<u>750</u>	<u>1,000</u>	<u>I</u>
<u>Dakota, Turbo Dakota, Charger, Pathfinder (PA-28-201T/235/236)</u>	<u>P28B</u>	<u>1P/S</u>	<u>900</u>	<u>1,000</u>	<u>I</u>
Cherokee Arrow 2/3, Turbo Arrow 3	P28R	1P/S	750	1,000	I

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Cherokee Arrow 4, Turbo Arrow 4	P28T	1P/S	900	1,000	I
Twin Comanche, Turbo Twin Comanche	PA30	2P/S	1,500	1,500	II
Chieftan, Mohave, Navajo, T-1020	PA31	2P/S	1,500	1,500	II
Cherokee Six, Lance, (Turbo) Saratoga	PA32	1P/S	850	1,000	I
Cherokee Lance PA-32R, Saratoga SP, Turbo Saratoga SP	P32R	1P/S	850	1,000	I
Lance 2, Turbo Lance 2	P32T	1P/S	850	1,000	I
Seneca <u>2/32/3</u>	PA34	2P/S	1,300	1,300	II
Brave, Pawnee Brave, Super Brave	PA36	1P/S	800	1,000	I
Tomahawk	PA38	1P/S	750	750	I
Seminole, Turbo Seminole	PA44	2P/S	1,100	1,000	II
Malibu, Malibu Mirage	PA46	1P/S	1,000	1,000	I
<u>Malibu Meridian</u>	<u>P46T</u>	<u>1T/S</u>	<u>1,500</u>	<u>1,500</u>	<u>I</u>
<u>T-1040</u>	<u>PAT4</u>	<u>1P/S</u>	<u>1,300</u>	<u>1,200</u>	<u>I</u>
<u>Chevenne 1</u>	<u>PAY1</u>	<u>2T/S</u>	<u>2,200</u>	<u>2,000</u>	<u>II</u>
<u>Chevenne 2</u>	<u>PAY2</u>	<u>2T/S</u>	<u>2,400</u>	<u>2,000</u>	<u>II</u>
<u>Chevenne 3</u>	<u>PAY3</u>	<u>2T/S</u>	<u>2,400</u>	<u>2,000</u>	<u>II</u>
<u>Chevenne 400</u>	<u>PAY4</u>	<u>2T/S</u>	<u>2,500</u>	<u>2,000</u>	<u>II</u>
Pillan PA-28R-300	PILL	1P/S	750	1,000	I
<u>Voyager, Station Wagon 108</u>	<u>S108</u>	<u>1P/S</u>	<u>800</u>	<u>800</u>	<u>I</u>

PITTS AEROBATICS (Manufactured by Christen Industries, Inc.)(USA)

(Also AEROTEK, AVIAT, CHRISTEN)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
S-1 Special	PTS1	1P/S	1,500	1,500	I
S-2 Special	PTS2	1P/S	1,500	1,500	I

RAYTHEON (See BEECH)

RILEY AIRCRAFT CORP. (USA)

(Also AVIONES, COLOMBIA, CESSNA, COLEMILL)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
M65 Rocket, Turbo Rocket, Super 310	C310	2P/S	1,500	1,500	II

ROCKWELL INTERNATIONAL CORP. (USA)

(Also AERO COMMANDER, CANADAIR, CCF, COMMANDER, COMMONWEALTH, GULFSTREAM, HAMILTON, MITSUBISHI, NOORDUYN, NORTH AMERICAN PACAERO, PACIFIC AIRMOTIVE, ROCKWELL, RYAN, SUD, TUSCO)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Commander 112 / <u>114</u> <u>112</u> / <u>114</u>	AC11 <u>AC11</u>	1P/S	1,000	1,200	I
Commander 500	AC50	2P/S	1,340	1,500	II
Commander 520	AC52	2P/S	1,340	1,500	II
Commander 560	AC56	2P/S	1,400	1,500	II
Super Commander 680S/E/F/FP	AC68	2P/S	1,375	1,375	II
Grand Commander 685/680FL	AC6L	2P/S	1,250	1,250	II
Alti-Cruiser	AC72	2P/S	1,300	1,300	II
<u>Turbo Commander 680/681 Hawk Commander</u>	<u>AC80</u>	<u>2T/S</u>	<u>2,000</u>	<u>1,500</u>	<u>II</u>
<u>Turbo Commander 690, Commander Jetprop 840/900</u>	<u>AC90</u>	<u>2T/S</u>	<u>2,500</u>	<u>2,500</u>	<u>II</u>
<u>Turbo Commander 695, Commander Jetprop 980/1000</u>	<u>AC95</u>	<u>2P/S</u>	<u>2,500</u>	<u>2,500</u>	<u>II</u>
Lancer	B1*	4J/H	3,000	5,000	III
Mitchell	B25	2P/L	980	980	III
Sabre	F86*	1J/L	4,000	4,000	III
Jet Commander 1121	JCOM	2J/S+	5,000	4,500	III
Lark 100 Commander	LARK	1P/S	700	1,000	I
Commander 200	M200	1P/S	1,400	1,000	I
Navion NA 145/154	NAVI	1P/S	750	600	I
Mustang	P51	1P/S	2,500	2,500	III
Sabreliner 65/40/50/60	SBR1	2J/S+	4,000	3,500	III
Super Sabre F-100	SSAB	1J/L	4,000	4,000	III
Buckeye	T2*	2J/L	5,700	6,000	III
Trojan, Nomair, Nomad	T28	1P/S	2,500	2,500	I

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Texan, Harvard	T6	1P/S	800	800	I
Bronco	V10*	2T/S	2,000	2,500	II
Darter 100	VO10	1P/S	850	850	I

RUSHCMEYER (Germany) RUSHCMEYER (Germany)

<u>Model</u>	<u>Type Designator</u>	<u>Description</u>	<u>Performance Information</u>		
			<u>Number & Type Engines/Weight Class</u>	<u>Climb Rate (fpm)</u>	<u>Descent Rate (fpm)</u>
<u>R90R-90-230FG</u>	<u>R90F</u>	<u>1P/S</u>	<u>1,000</u>	<u>1,000</u>	<u>I</u>
<u>R90R-90-230RG, MF-85</u>	<u>R90R</u>	<u>1P/S</u>	<u>1,000</u>	<u>1,000</u>	<u>I</u>

SAAB & FAIRCHILD INDUSTRIES (Sweden/USA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
SF-340	SF34	2T/L	2,000	2,000	III

SHORT BROTHERS LTD. (UK)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Shorts SC7 Skyvan, Skyliner	SC7	2T/S	1,500	1,500	II
Shorts 330, Sherpa	SH33	2T/S+	1,380	1,380	III
Shorts 360	SH36	2T/S+	1,400	1,400	III

SIAI MARCHETTI SpA (Italy)

(Also AGUSTA)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
SF260TP	F26T	1T/S	1,800	1,100	I
F600, SF-600TP Canguero	F600	2T/S	2,100	-	II

SILVAIRE (USA)

(Also LUCSOME, TEMCO)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Luscombe Silvaire	L8	1P/S	900	1,000	I

SOCATA (See AEROSPATIALE)

STINSON (USA)

(Also PIPER)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
<u>Sentinel V-76, L-5, U-19, OY</u>	<u>L5</u>	<u>1P/S</u>	<u>750</u>	<u>750</u>	<u>I</u>
Reliant (Vultee) V-77	RELI	1P/S	700	700	I
Voyager 10/105	S10	1P/S	750	1,000	I
Voyager/Station Wagon 108	S108	1P/S	750	1,000	I

SUD AVIATION (See Aerospatiale)

SWEARINGEN AVIATION (USA-see Fairchild Industries)

TAYLORCRAFT AVIATION CORP. (USA)

(Also TAYLOR KITS)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
F-15 Tourist, Foursome	TA15	1P/S	800	1,000	I
F-19 Sportsman	TF19	1P/S	800	1,000	I
F-20A Topper, Ranchwagon, Seabird, Zephyr	TA20	1P/S	1,000	1,000	I
F-21, T-Kraft	TF21	1P/S	1,100	1,100	I

TED SMITH AEROSTAR CORP. (USA)

(Also AEROSTAR, AICSA, MACHEN, PIPER)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Aero Star	AEST	2P/S	1,800	1,500	II

VFW-FOKKER (Zentralgesellschaft VFW-Fokker mbH (FRG/Netherlands))

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
VFW 614	VF14	2J/L	3,100	3,000	III

VOUGHT CORP. (USA)

(Also GLOBE, LTV, TEMCO)

Model	Type Designator	Description	Performance Information		
			Number & Type Engines/Weight Class	Climb Rate (fpm)	Descent Rate (fpm)
Corsair A-7, TA-7, EA-7	A7*	1J/L	8,000	6,000	III
Swift	GC1	1P/S	1,000	1,000	I

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ZENAIR (Canada)

(Also ZENITH)

Model	Type Designator	Description	Performance Information		
			Climb Rate (fpm)	Descent Rate (fpm)	SRS Cat.
CH-2000 Zenith	CH2T	1P/S	780	-	I

APPENDIX B. BRIEFING GUIDE

1. BACKGROUND TO CHANGES. The FAA is currently working on a program which will greatly increase the role of automation in the exchange of flight plan data between international controlling agencies. In its end stage, this automation upgrade will eliminate the need to manually pass flight plan data between countries. In order to speed this effort, we need to standardize globally in all possible areas, under the mandate of maintaining or increasing the level of safety. By adopting ICAO methods and procedures, or, in some cases, by convincing ICAO to adopt our way of doing things, we greatly reduce the time and resources needed to standardize our aviation systems.

In June 1997, and again in September 1997, the United States voiced flight safety concerns about revisions to ICAO Doc 8643/25, Aircraft Type Designators. The U.S. recognized ICAO's efforts to update and standardize the assignment of aircraft designators. However, the U.S. took exception to approximately 230 designators based on aircraft performance criteria and other factors. Since U.S. controllers base control instructions on the performance characteristics of aircraft, it is imperative that U.S. controllers be able to distinguish aircraft capabilities from the type designators.

It was decided at the September 1997 meeting that the U.S. would implement ICAO Doc 8643/25 in its entirety. However, the U.S. reserved the right to propose changes based on an evaluation of the safety and efficiency of the new designators. In November 1997 a global implementation of ICAO Doc 8643/25 was effective. Since the implementation, the U.S. has received numerous flight safety complaints and concerns from the systems air traffic controllers and pilots. Additionally, the pilot and controller unions have expressed grave concern with the impact the new designators have on flying safety.

Following implementation of ICAO Doc 8643/25, the U.S. formed a workgroup consisting of FAA, NATCA, NAATS and military representatives to analyze the data supplied by the National Airspace System (NAS) users. This workgroup proposed the addition of one new aircraft type designator and the change of 20 others in ICAO Doc 8643/25. A meeting was held with ICAO in February 1998 to present these U.S. proposed amendments to ICAO Doc 8643/25, Aircraft Type Designators. The changes to aircraft type designators in this training package are a result of this process.

2. DETAILED EXPLANATION OF CHANGES.

a. GENERAL CHANGES. All 'Old Designator' columns were removed, and the 'New Designator' column replaced by 'Type Designator'.

For ease of searching, aircraft were sorted alphabetically by Designator within Manufacturer, except where it made sense to keep two aircraft designators together because one was variant of the other e.g. PA32 and P32R.

b. DESIGNATOR CHANGES.

Manufacturer	From	To	Description	Reason
AEROSPATIALE	ATR	AT43 AT44 AT45 AT72	ATR-42-200/300/320 ATR-42-400 ATR-42-500 ATR-72 All models	Separate aircraft that perform differently. Separation of ATR-42 models requested by France.

Manufacturer	From	To	Description	Reason
AIRBUS	A300	A30B A306	Airbus A300B2 Airbus A300B4 - 600	Separate aircraft models that perform differently. Requested by France.
BEECH	MU30	MU30 BE40	Mitsubishi Diamond Beechjet 400	Revert Beechjet 400 back to BE40.
BELLANCA	AR7	CH7A CH7B	Champion 7 7AC/7ACA/7BCM/7C C/7CCM/7DC/7EC/7E CA/ 7FC/7JC Champion 7 7GC/7GCA/7GCAA/7 GCB/7GCBA/7GCBC/ 7HC/7KC/ 7KCAB	Result of US request to split the single designator into two or more which reflect performance. Split based on engine horsepower. ICAO research led to these designators.
BOEING	B707	B701 B703 E6 KE3	Boeing 707-100 (C-137B) Boeing 707-300 Boeing E-6 Mercury Boeing KE-3	Designate all Boeing aircraft with numeric last character to identify model. No -200 or -400 models flying. New designators for E-6 and KE-3 based on different engines.
BOEING	B727	B721 B722 B72Q	Boeing 727-100 (C-22) Boeing 727-200 Boeing 727 Stage 3 (-100 or -200)	Designate all Boeing aircraft with numeric last character to identify model. B72Q for Stage 3 aircraft will be implemented in the US only.
BOEING	B73A	B731 B732 B73Q	Boeing 737-100 Boeing 737-200 (Surveiller, CT-43, VC-96) Boeing 737 Stage 3 (-100 or -200)	Designate all Boeing aircraft with numeric last character to identify model. Identify Stage 3 with new designator, US use only.
BOEING	B73B	B733 B734 B735	Boeing 737-300 Boeing 737-400 Boeing 737-500	Designate all Boeing aircraft with numeric last character to identify model.
BOEING	B73C	B736 B737 B738	Boeing 737-600 Boeing 737-700 Boeing 737-800	Designate all Boeing aircraft with numeric last character to identify model.
BOEING	B74A	B741 B742 B743 B74R	Boeing 747-100 Boeing 747-200 Boeing 747-300 Boeing 747SR	Designate all Boeing aircraft with numeric last character to identify model. Request to separate SR model from France and Japan
BOEING	B74B	B744	Boeing 747-400	Designate all Boeing aircraft with numeric last character to identify model.
BOEING	B757	B752 B753	Boeing 757-200 Boeing 757-300	Designate all Boeing aircraft with numeric last character to identify model.

Manufacturer	From	To	Description	Reason
BOEING	B767	B762 B763 E767	Boeing 767-200 Boeing 767-300 Boeing 767 AWACS (E-767)	Designate all Boeing aircraft with numeric last character to identify model. E767 only flies in Japanese Airforce. Flies slower due to rotodome.
BOEING	B777	B772 B773	Boeing 777-200 Boeing 777-300	Designate all Boeing aircraft with numeric last character to identify model. -300 is longer.
BOEING	C135	C135 K35A K35E K35R R135	C-135 Stratolifter, EC-135, NKC-135, OC-135, TC-135, WC-135 KC-135A (J57 engines) KC-135D/E (TF33 engines) KC-135R/T, C-135FR (CFM56 engines) RC-135	At DOD request, supported by FAA. Extra designator for KC-135A recommended by ICAO. New Format recommended by ICAO.
BOEING	E3	E3TF E3CF	Boeing E-3A (TF33), E-3B/C Sentry Boeing E-3A (CFM56), E-3-D/F Sentry	An ICAO request due to differences in performance and noise with different engines. Only the E3TF flown in US, and thus incorporated into Appendix A.
BRITISH AEROSPACE	JSTA	JS1 JS20 JS3 JS31 JS32	Jetstream 1 Jetstream 200 Jetstream 3 BAe-3100, Jetstream 31 BAe-3200 Jetstream Super 31	Separate models with different performance. Allow for a sequenced designator for new models as developed.
BRITISH AEROSPACE	JSTB	JS41	Jetstream 41	Allow for a sequenced designator for new models as developed.
CESSNA	C500	C500 C501	CE-500 Citation I CE-500 Citation I-SP	C501 is single-pilot certified and performs differently to the C500.
CESSNA	C550	C550 C551	Cessna 550, S550, 552 Citation 2/S2/Bravo (T-47, OT-47, U-20) Cessna 551 Citation 2SP	C551 is single-pilot certified and is much lighter than the C550.

Manufacturer	From	To	Description	Reason
DE HAVILLAND	DHC8	DH8A DH8B DH8C DH8D	Dash 8 - 100 Dash 8 - 200 Dash 8 - 300 Dash 8 - 400	Give models separate designators because of the differences in weights and performances. (Numeric versions of these designators e.g. DH82, were already in use)
GULFSTREAM	GULF	GLF2 GLF3 GLF4 GLF5	Gulfstream 2 Gulfstream 3 Gulfstream 4 Gulfstream 5	Separate aircraft based on the range of performance characteristics of the models. Also aircraft are in different noise categories.
HANDLEY PAGE	JSTA	JS1 JS20	HP-137 Jetstream 1 HP-137 Jetstream 200	Changes in line with other British Aerospace / Jetstream changes.
MCDONNELL-DOUGLAS	DC8	DC85 DC86 DC87 DC8Q	Douglas DC-8-50, Jet Trader (EC-24) Douglas DC-8-60 Douglas DC-8-70 Douglas DC-8 Stage 3	New ICAO request, based on the different engine performance of the models still flying. Stage 3 designator for US implementation only.
MOONEY	M20	M20P M20T	Mooney 20, Non-Turbocharged Piston Engine Mooney 20, Turbocharged Engine	Separate models by performance.
PIPER	P31T	PAY1 PAY2 PAT4	Piper Cheyenne 1 Piper Cheyenne 2 Piper T-1040	Separate aircraft based on different performance characteristics. Identify Cheyenne's specifically for each model, to avoid confusion with other Piper aircraft.
PIPER	PA28	P28A P28B	Piper Cherokee, Archer, Cadet, Warrior, Challenger, Chief, Cruiser, Flite Liner PA-28-140/150/151/160/161/180/181) Piper Dakota, Charger, Pathfinder (PA-28-201T/235/236)	Separate largest models (Dakota, Charger, Pathfinder) from other models, due to difference in performance, particularly landing distances.
PIPER	PA42	PAY3 PAY4	Piper Cheyenne 3 Piper Cheyenne 400	Identify Cheyenne's specifically for each model, to avoid confusion with other Piper aircraft.

Manufacturer	From	To	Description	Reason
PIPER	PA46	PA46	Piper Malibu, Malibu Mirage	Separate aircraft models based on performance characteristics.
		P46T	Piper Malibu Meridian, Jetprop DLX	
ROCKWELL	AC6T	AC80	Turbo Commander 680/681 models	Separate models by performance. ICAO research led to these three designators.
		AC90	Turbo Commander 690 models	
		AC95	Turbo Commander 695 models.	
ROCKWELL	CM11	AC11	Commander 112, 114	US requested use of AC11 (<i>Aero Commander 112/114</i>) instead of CM11 (<i>Commander 112/114</i>), as AC is more recognizable to controllers than CM.

c. **AIRCRAFT ADDITIONS.** The following new aircraft designators were added to Appendix A.

Manufacturer	New Designator	Reason for Addition
BOEING	B712	New aircraft Boeing 717-200
CESSNA	C77R	ICAO designator for retractable gear C177
CESSNA	P210	ICAO designator for pressurized Centurion
CESSNA	C750	ICAO designator for Citation 10
EXTRA	E200	Requested by field facilities
EXTRA	E230	Requested by field facilities
EXTRA	E300	Requested by field facilities
EXTRA	E400	Requested by field facilities
FOKKER	F60	ICAO designator for Fokker 60
FOKKER	F70	ICAO designator for Fokker 70
GREAT LAKES	G2T1	Requested by field facilities
GROB	G109	Requested by field facilities
GROB	G115	Requested by field facilities
MCDONNELL-DOUGLAS	DC9Q	Stage 3 designator requested by field facilities.
PIPER	J3	ICAO designator for J-3 Cub
PIPER	J4	ICAO designator for J-4 Cub
PIPER	S108	ICAO designator for Piper Voyager, Station Wagon
RUSCHMEYER	R90F	Requested by field facilities
RUSCHMEYER	R90R	Requested by field facilities
STINSON	L5	Requested by field facilities

d. ADDITIONAL INFORMATION. Information on Climb and Descent rates was updated for the following aircraft:

Manufacturer	Designator
BEECH	T34T
BOEING	B757
CANADAIR	CARJ
CESSNA	C72R
DORNIER	D28D
DORNIER	D28T

e. AIRCRAFT DESIGNATOR RECONCILIATION. Reconciliation was required to eliminate duplicate designators within Appendix A.

The ICAO change in November 1997 combined some models of aircraft into a single designator. These were still showing as separate aircraft in Appendix A, with the same designator. They have been combined into a single record with one designator.

For example, prior to November 1997, there were separate designators for the King Air 100A and the King Air 100B. These are now both covered by the one designator, BE10. These two lines were combined into one line showing the one designator for the King Air 100.

Similar reduction was performed on the following designators:

Manufacturer	Designator
AERO SPACELINES	SGUP
AEROSPATIALE	RALL
AEROSPATIALE	TRIN
BEECH	BE10
BEECH	BE18
BEECH	BE20
BEECH	BE30
BEECH	BE65
BELLANCA	BL17
BELLANCA	BL8
CESSNA	C402
DASSAULT	FA20
DEHAVILLAND	COMT
DORNIER	D228
FAIRCHILD	F27
GATES LEARJET	LJ28
GATES LEARJET	LJ35
GENERAL DYNAMICS	CVLP
GENERAL DYNAMICS	CVLT
GOVERNMENT AIRCRAFT FACTORIES	NOMA

Manufacturer	Designator
GRUMMAN	AA1
HELIO	COUR
ISRAEL AIRCRAFT INDUSTRIES	WW24
LAKE	LA25
LAKE	LA4
LOCKHEED	CONI
LOCKHEED	T33
MITSUBISHI	MU2
NOORDYUN	NORS
PIPER	PA34