

# Caribbean Airlines



the islands, done right

## Caribbean Virtual Airlines Bombardier Dash-8 Q400 Quick Reference Handbook

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# QUICKLIST

BEFORE SPAWN	TAXI
1. Flight Plan - Copy 2. Server - Select 3. Aircraft/Livery - Select 4. Spawn Location - Select 5. Callsign - Set	1. Flaps - SET for TO (5 or 15) 2. Brakes - CHECKED 3. Taxi to Runway - MAX 25 kts
VERIFY	LINE UP
1. Parking Brake - SET 2. Throttle - IDLE 3. Flaps - UP 4. Spoilers - OFF 5. Nav Lights - ON 6. Flight Plan - Paste 7. Flight Plan - Verify 8. Weight & Balance - SET 9. Trim - SET for TO (20-30%) 10. Seat Belts Sign - ON	1. Beacon Light - OFF 2. Strobe Light - ON
PUSHBACK	TAKEOFF
*If not required, skip section. 1. Pushback Area - CLEAR 2. Pushback - Proceed	1. Landing Lights - ON 2. Throttle - TO Power <ul style="list-style-type: none"> <li>• NTOP: 88% or if req'd, MTOP: 100%</li> </ul> 3. Rotate <ul style="list-style-type: none"> <li>• Flaps 5: 15°</li> <li>• Flaps 15: 10°</li> </ul>
ENGINE START	AFTER TAKEOFF
1. Beacon Light - ON 2. Throttle - IDLE 3. Right Engine (#2) - START 4. Right Engine - VERIFY 18% 5. Left Engine (#1) - START 6. Left Engine - VERIFY 18%	1. Landing Gear - UP 2. 1000 ft AGL <ul style="list-style-type: none"> <li>• Flaps - UP</li> <li>• Pitch - 8° to 10°</li> <li>• Autopilot - SET &amp; ON</li> <li>• Throttle - Climb (78%)</li> </ul>
	CLIMB
	1. Pitch - As Req'd To Maintain 185 KIAS 2. Transition Level: Landing Lights - OFF 1. Pitch - As Req'd To Maintain 210 KIAS 3. 15000 ft MSL: Climb Pitch - 5°
	CRUISE
	<ul style="list-style-type: none"> <li>• HSC: Vmo -10 KIAS</li> <li>• ISC: Vmo -15 to -20 KIAS</li> </ul>
1.0 1.2	

**DESCENT**

1. ROD - 1500 fpm to 2000 fpm
2. Throttle - As Req'd
3. Transition Altitude: Landing Lights - ON

**APPROACH**

1. Spoilers - ARMED
2. 8 NM
  - Speed < 200 KIAS
  - Flaps - 5°
  - Continue slowing to 160 KIAS
4. 5 NM: Gear - DOWN
5. 4 NM
  - Flaps - SET for LDG (15 or 35)
  - Speed - Approach
6. Trim - As Req'd
  - Flaps 15: 25% to 35%
  - Flaps 35: -35% to -15%

**LANDING**

1. Pitch
  - Flaps 15: 0° to 2°
  - Flaps 35: -3° to -5°
2. Max Flare Pitch - 5°

**AFTER LANDING**

1. Vacate Runway
2. Landing Lights - OFF
3. Strobe Lights - OFF
4. Beacon Light - ON
5. Flaps - UP
6. Spoilers - OFF
7. Taxi to Parking

**SHUTDOWN**

1. Parking Brake - SET
2. Throttle - IDLE for 30 seconds
3. Engines - OFF
4. Seat Belt Signs - OFF

# TAKEOFF TABLES

18,000 kg / 39,600 lbs

	15°	10°	5°	0°
$V_1 / V_R$	100	104	108	
$V_2$	105	110	115	
$V_{FRI}$	107	110	116	
$V_{CLIMB}$				130

18,500 kg / 40,700 lbs

	15°	10°	5°	0°
$V_1 / V_R$	100	104	108	
$V_2$	105	110	115	
$V_{FRI}$	107	110	117	
$V_{CLIMB}$				130

19,000 kg / 41,800 lbs

	15°	10°	5°	0°
$V_1 / V_R$	100	104	108	
$V_2$	105	110	114	
$V_{FRI}$	107	110	118	
$V_{CLIMB}$				130

19,500 kg / 42,900 lbs

	15°	10°	5°	0°
$V_1 / V_R$	100	104	108	
$V_2$	104	110	114	
$V_{FRI}$	108	110	119	
$V_{CLIMB}$				130

20,000 kg / 44,000 lbs

	15°	10°	5°	0°
$V_1 / V_R$	100	104	108	
$V_2$	104	109	114	
$V_{FRI}$	109	112	120	
$V_{CLIMB}$				131

20,500 kg / 45,100 lbs

	15°	10°	5°	0°
$V_1 / V_R$	100	104	108	
$V_2$	104	109	113	
$V_{FRI}$	110	114	122	
$V_{CLIMB}$				133

21,000 kg / 46,200 lbs

	15°	10°	5°	0°
$V_1 / V_R$	100	104	109	
$V_2$	103	109	114	
$V_{FRI}$	112	115	123	
$V_{CLIMB}$				134

21,500 kg / 47,300 lbs

	15°	10°	5°	0°
$V_1 / V_R$	100	104	111	
$V_2$	103	108	116	
$V_{FRI}$	113	117	125	
$V_{CLIMB}$				135

22,000 kg / 48,500 lbs

	15°	10°	5°	0°
$V_1 / V_R$	101	104	113	
$V_2$	104	109	117	
$V_{FRI}$	115	118	126	
$V_{CLIMB}$				137

22,500 kg / 49,600 lbs

	15°	10°	5°	0°
$V_1 / V_R$	102	106	114	
$V_2$	105	110	118	
$V_{FRI}$	116	119	127	
$V_{CLIMB}$				139

23,000 kg / 50,700 lbs

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	104	107	116	
V <sub>2</sub>	107	111	120	
V <sub>FRI</sub>	117	121	129	
V <sub>CLIMB</sub>				140

23,500 kg / 51,800 lbs

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	105	109	117	
V <sub>2</sub>	108	112	121	
V <sub>FRI</sub>	119	122	130	
V <sub>CLIMB</sub>				141

24,000 kg / 52,900 lbs

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	107	110	119	
V <sub>2</sub>	109	113	122	
V <sub>FRI</sub>	120	123	132	
V <sub>CLIMB</sub>				143

24,500 kg / 54,000 lbs

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	108	112	120	
V <sub>2</sub>	110	114	124	
V <sub>FRI</sub>	121	125	133	
V <sub>CLIMB</sub>				144

25,000 kg / 55,100 lbs

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	109	113	122	
V <sub>2</sub>	111	116	125	
V <sub>FRI</sub>	123	126	134	
V <sub>CLIMB</sub>				146

25,500 kg / 56,200 lbs

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	111	114	123	
V <sub>2</sub>	112	117	126	
V <sub>FRI</sub>	124	127	136	
V <sub>CLIMB</sub>				147

26,000 kg / 57,300 lbs

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	112	116	125	
V <sub>2</sub>	113	118	127	
V <sub>FRI</sub>	125	128	137	
V <sub>CLIMB</sub>				148

26,500 kg / 58,400 lbs

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	113	117	126	
V <sub>2</sub>	115	119	129	
V <sub>FRI</sub>	125	130	138	
V <sub>CLIMB</sub>				150

27,000 kg / 59,500 lbs

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	114	119	128	
V <sub>2</sub>	116	120	130	
V <sub>FRI</sub>	128	131	140	
V <sub>CLIMB</sub>				151

27,500 kg / 60,600 lbs

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	116	120	129	
V <sub>2</sub>	117	121	131	
V <sub>FRI</sub>	129	133	141	
V <sub>CLIMB</sub>				153

**28,000 kg / 61,700 lbs**

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	117	121	131	
V <sub>2</sub>	118	122	132	
V <sub>FRI</sub>	130	134	142	
V <sub>CLIMB</sub>				154

**28,500 kg / 62,800 lbs**

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	118	123	132	
V <sub>2</sub>	119	124	133	
V <sub>FRI</sub>	131	135	143	
V <sub>CLIMB</sub>				155

**29,000 kg / 63,900 lbs**

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	119	124	134	
V <sub>2</sub>	120	125	135	
V <sub>FRI</sub>	132	136	145	
V <sub>CLIMB</sub>				157

**29,500 kg / 65,000 lbs**

	15°	10°	5°	0°
V <sub>1</sub> / V <sub>R</sub>	120	125	134	
V <sub>2</sub>	120	125	135	
V <sub>FRI</sub>	133	137	146	
V <sub>CLIMB</sub>				158

# LANDING TABLES

18,000 kg / 39,600 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	101	105	108	114	124
V <sub>AC</sub>		105	108	109	
V <sub>FRI</sub>		107	110	116	

18,500 kg / 40,700 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	101	105	108	115	127
V <sub>AC</sub>		105	108	109	
V <sub>FRI</sub>		107	110	117	

19,000 kg / 41,800 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	101	105	109	117	128
V <sub>AC</sub>		105	108	109	
V <sub>FRI</sub>		107	110	118	

19,500 kg / 42,900 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	101	105	110	118	129
V <sub>AC</sub>		105	108	109	
V <sub>FRI</sub>		108	110	119	

20,000 kg / 44,000 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	102	107	112	120	131
V <sub>AC</sub>		105	108	110	
V <sub>FRI</sub>		109	112	120	

20,500 kg / 45,100 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	103	108	113	122	133
V <sub>AC</sub>		105	108	111	
V <sub>FRI</sub>		110	114	122	

21,000 kg / 46,200 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	104	109	115	124	134
V <sub>AC</sub>		105	108	113	
V <sub>FRI</sub>		112	115	123	

21,500 kg / 47,300 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	106	110	116	125	135
V <sub>AC</sub>		105	108	114	
V <sub>FRI</sub>		113	117	125	

22,000 kg / 48,500 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	107	112	117	126	137
V <sub>AC</sub>		105	108	115	
V <sub>FRI</sub>		115	118	126	

22,500 kg / 49,600 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	108	113	118	127	139
V <sub>AC</sub>		105	109	117	
V <sub>FRI</sub>		116	119	127	

23,000 kg / 50,700 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	109	114	120	129	140
V <sub>AC</sub>		105	110	118	
V <sub>FRI</sub>		117	121	129	

23,500 kg / 51,800 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	110	115	121	130	142
V <sub>AC</sub>		106	111	119	
V <sub>FRI</sub>		119	122	130	

24,000 kg / 52,900 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	112	117	122	132	143
V <sub>AC</sub>		107	112	120	
V <sub>FRI</sub>		120	123	132	

24,500 kg / 54,000 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	113	118	124	133	145
V <sub>AC</sub>		108	114	122	
V <sub>FRI</sub>		121	125	133	

25,000 kg / 55,100 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	114	119	125	134	146
V <sub>AC</sub>		109	115	123	
V <sub>FRI</sub>		123	126	134	

25,500 kg / 56,200 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	115	120	126	136	147
V <sub>AC</sub>		110	116	124	
V <sub>FRI</sub>		124	127	136	

26,000 kg / 57,300 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	116	121	127	137	149
V <sub>AC</sub>		111	117	125	
V <sub>FRI</sub>		125	128	137	

26,500 kg / 58,400 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	117	123	129	138	150
V <sub>AC</sub>		113	118	127	
V <sub>FRI</sub>		125	130	138	

27,000 kg / 59,500 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	118	124	130	139	152
V <sub>AC</sub>		114	119	128	
V <sub>FRI</sub>		128	131	140	

27,500 kg / 60,600 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	119	125	131	141	153
V <sub>AC</sub>		115	120	129	
V <sub>FRI</sub>		129	133	141	



28,000 kg / 61,700 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	120	126	132	142	155
V <sub>AC</sub>		116	122	130	
V <sub>FRI</sub>		130	134	142	

>MLW

28,500 kg / 62,800 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	122	128	134	143	155
V <sub>AC</sub>		117	123	131	
V <sub>FRI</sub>		131	135	143	

>MLW

29,000 kg / 63,900 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	122	130	136	145	157
V <sub>AC</sub>		118	124	132	
V <sub>FRI</sub>		132	136	145	

>MLW

29,500 kg / 65,000 lbs

	35°	15°	10°	5°	0°
V <sub>REF</sub>	123	131	136	146	158
V <sub>AC</sub>		119	125	133	
V <sub>FRI</sub>		133	137	146	

High Speed Cruise Chart								
FLIGHT LEVEL	DELTA ISA	18,000 kg 39,600 lb	20,000 kg 44,000 lb	22,000 kg 48,500 lb	24,000 kg 52,900 lb	26,000 kg 57,300 lb	28,000 kg 61,700 lb	29,000 kg 63,900 lb
<100	-20	245	245	245	245	245	245	245
	-10	245	245	245	245	245	245	245
	0	245	245	245	245	245	245	245
	10	245	245	245	245	245	245	245
	20	245	245	245	245	245	245	245
100	-20	282	282	282	282	282	282	282
	-10	282	282	282	282	282	282	282
	0	282	282	282	282	282	282	282
	10	282	282	282	282	282	282	282
	20	276	276	275	274	273	271	270
120	-20	283	283	283	283	283	283	283
	-10	283	283	283	283	283	283	283
	0	283	283	283	283	283	283	283
	10	283	283	282	283	283	281	281
	20	270	270	269	267	266	264	263
140	-20	284	284	284	284	284	284	284
	-10	284	284	284	284	284	284	284
	0	284	284	284	284	284	284	284
	10	279	279	278	277	275	274	273
	20	264	263	262	261	259	257	256
160	-20	285	285	285	285	285	285	285
	-10	285	285	285	285	285	285	285
	0	284	283	282	281	280	278	278
	10	271	270	269	268	266	264	263
	20	256	255	254	252	250	248	246
180	-20	286	286	286	286	286	286	286
	-10	286	286	286	285	283	282	281
	0	276	275	284	273	272	270	269
	10	263	262	261	259	258	255	254
	20	249	248	246	244	242	239	237
200	-20	275	275	275	275	275	275	275
	-10	275	275	275	275	274	272	272
	0	268	267	266	265	263	261	260
	10	256	255	253	252	249	247	245
	20	242	240	239	236	233	230	228
220	-20	264	264	264	264	264	264	264
	-10	264	264	264	264	264	262	261
	0	260	259	258	256	254	251	250
	10	249	247	246	244	241	238	236
	20	235	233	231	228	225	221	218
240	-20	253	253	253	253	253	253	253
	-10	253	253	253	253	253	252	250
	0	252	250	249	247	244	240	239
	10	241	240	238	235	231	227	224
	20	227	225	222	218	214	208	204
250	-20	248	248	245	248	248	248	248
	-10	248	248	248	248	248	245	243
	0	246	245	243	241	237	234	232
	10	236	234	232	229	225	220	217
	20	223	221	217	214	209	202	197

Intermediate Speed Cruise Chart								
FLIGHT LEVEL	DELTA ISA	18,000 kg 39,600 lb	20,000 kg 44,000 lb	22,000 kg 48,500 lb	24,000 kg 52,900 lb	26,000 kg 57,300 lb	28,000 kg 61,700 lb	29,000 kg 63,900 lb
<b>&lt;100</b>	-20	230	231	233	234	235	236	238
	-10	228	230	232	233	233	236	237
	0	228	230	231	232	233	236	237
	10	227	229	230	231	233	235	237
	20	226	228	229	230	232	235	236
<b>100</b>	-20	246	247	248	250	251	255	258
	-10	244	246	248	248	251	254	256
	0	244	245	246	247	251	254	255
	10	243	245	245	247	250	253	254
	20	240	241	241	243	245	246	248
<b>120</b>	-20	243	245	246	249	252	257	259
	-10	242	244	246	248	251	256	258
	0	241	242	244	247	251	255	257
	10	241	242	243	247	250	253	255
	20	234	234	236	239	241	244	246
<b>140</b>	-20	241	243	246	250	254	257	257
	-10	240	242	245	249	253	256	256
	0	239	240	244	248	252	255	256
	10	236	237	240	244	247	249	250
	20	228	228	232	235	238	240	241
<b>160</b>	-20	239	242	246	250	253	254	254
	-10	238	242	245	249	252	253	254
	0	236	239	243	247	249	250	250
	10	229	232	236	239	242	243	243
	20	221	224	228	231	233	235	234
<b>180</b>	-20	239	243	247	249	250	251	252
	-10	237	242	245	248	249	249	249
	0	231	236	239	242	243	243	243
	10	224	229	232	234	236	235	235
	20	216	221	224	226	228	227	226
<b>200</b>	-20	234	237	240	240	242	244	244
	-10	233	236	239	240	241	242	242
	0	228	232	234	235	235	236	236
	10	222	225	227	229	228	228	228
	20	213	217	219	221	220	219	219
<b>220</b>	-20	227	230	231	232	234	235	238
	-10	226	230	231	232	234	235	236
	0	224	226	227	227	228	228	230
	10	218	220	222	221	221	222	223
	20	211	212	214	213	213	213	213
<b>240</b>	-20	220	221	223	225	227	231	233
	-10	219	221	222	224	226	230	231
	0	218	220	220	220	221	224	225
	10	212	214	214	214	214	217	217
	20	204	206	206	205	206	207	204
<b>250</b>	-20	216	217	219	221	224	228	229
	-10	215	217	219	220	225	226	226
	0	214	215	216	216	219	220	220
	10	209	210	210	210	213	213	212
	20	202	203	202	202	204	202	197