

Pacific Airways
Passenger Division
Aircraft Reference Manual

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Raytheon 1900D

Takeoff Spec: $V_1 = 105$ KIAS, $V_r = 110$ KIAS, Pitch 10-15 degrees, $V_2 = 115$ KIAS

Climb Rate: 160 KIAS, 80 Torque, 1500 fpm.

Descent Rate: 180 KIAS, 10 Torque, -1500 fpm.

Approach Rate: 150 KIAS, 25 Torque, Flaps Set Appr.

Final Spec: 130 KIAS, 35 Torque, Flaps Set Full

Touch Down: 110 KIAS, 20 Torque, Flaps Set Full

Bombardier Dash 8

Takeoff Spec: De-Ice Off, Flaps 15, $V_1/V_r=99$, $V_2=106$

Climb Rate: 2000 FPM, Flaps Up

Descent Rate: Flaps As Required, 2500 FPM, Power Set as Required

Approach Rate: Flaps 15, $V_{Ref}=105$ KIAS

Final Spec: Flaps 35, $V_{Ref}=97$ KIAS

Touch Down: Flaps 35, 92 KIAS, Full Reverse

Embraer 145

Takeoff Spec: Flaps 18, $V_1 = 132$, $V_r = 136$, $V_2 = 138$

Climb Rate: 1000 AGL Flaps 9, 200 KIAS Flaps up, 250 KIAS to 10000'.

Descent Rate: FL 240 0.75M, FL180 0.65, FL 120 280 KIAS, FL100 250 KIAS

Approach Rate: 210 KIAS Flaps 9, 160 KIAS 18, 155 KIAS Flaps 45

Final Spec: V_{ref} , 130, Flaps 45

Touch Down: 127 KIAS

Bombardier CRJ900

Takeoff Spec: Flaps 20, $V1/Vr = 129$, $V2 = 138$

Climb Rate: 250 KIAS, Speed Mode Selected

Descent Rate: 310 slowing to 250 KIAS, Thrust Set Flight Idle

Approach Rate: 220 KIAS Flaps 8 upon receiving vectors for approach, 160KIAS Flaps 20 & bugs set at Glideslope Intercept

Final Spec: Flaps 45, 143 KIAS is V_{Ref} , Arm Spoilers

Touch Down: 135-140 KIAS, Flaps 45

Airbus A318

Takeoff Spec: $V1 = 120$, $Vr = 135$, $V2 = 135$

Climb Rate: 165 KIAS, 3000 FPM to 5000'. 250 KIAS to 10000', 290 KIAS/2000 FPM thru 10000'.

Descent Rate: 290 KIAS, 3000 FPM.

Approach Rate: 250 to 210 KIAS, Flaps as required.

Final Spec: 141 KIAS, Flaps Full, Speedbrakes Armed

Touch Down: 130-138 KIAS

Airbus A320

Takeoff Spec: Flaps 10, $V1 = 145$ KIAS, $Vr = 150$ KIAS, Pitch 10, $V2 = 155$ KIAS

Climb Rate: 180 KIAS Flaps 2, 210 KIAS Flaps up, FL100 250 KIAS, 280 KIAS

Descent Rate: FL 240 0.75M, FL180 0.65M, FL120 300 KIAS, FL100, 240

Approach Rate: 210 KIAS Flaps 2-10, 180 KIAS 20, 160 KIAS Flaps Down

Final Spec: 150 KIAS Flaps Down Full

Touch Rate: 145 KIAS

Boeing 737-700/800/900

Takeoff Spec: Flaps 5, V1 =145 KIAS, Vr =150 KIAS, Pitch 10 deg, V2 =160 KIAS

Climb Rate: 1000 AGL Flaps 1, 210 KIAS Flaps up, 250 KIAS 1800 fpm, 280 KIAS

Descent Rate: FL240 0.75M, FL180 0.65M, FL120 280 KIAS, FL100, 250 KIAS

Approach Rate: 210 KIAS Flaps 5-10, 180 KIAS Flaps 15-20, 160 KIAS Flaps Down

Final Spec: 145 KIAS Flaps Down Full

Touch Down: 140 KIAS

Boeing 757-200

Takeoff Spec: Flaps 5, V1 =150 KIAS, Vr =155 KIAS, Pitch 10 deg, V2=160 KIAS

Climb Rate: 170 KIAS Flaps 1, 210 KIAS Flaps up, 250 KIAS 1800 FPM.

Descent Rate: FL240 0.75M, FL180 0.70M, FL120 300KIAS, FL100 250 KIAS

Approach Rate: 210 KIAS, Flaps 5-10, 180 KIAS, Flaps 15-20, 160 KIAS Flaps Down

Final Spec: 155 KIAS, Flaps Down Full

Touch Down: 145 KIAS

Boeing 767-300ER

Takeoff Spec: Flaps 5, V1 = 135 KIAS, Vr = 143 KIAS, Pitch 10 deg, V2 = 156 KIAS

Climb Rate: 190 KIAS Flaps 1, 210 KIAS Flaps up, 250 KIAS 1200-1500 FPM

Descent Rate: 1500-2000 FPM at Flight Idle Power, FL100 250 KIAS

Approach Rate: 215 KIAS Flaps 5-15, 200 KIAS Flaps 15-20, 190 KIAS Flaps 20-25

Final Rate: 180 KIAS Flaps Down Full

Touch Down: 140-150 KIAS

Airbus A330-200

Takeoff Spec: $V_1 = 145$ KIAS, $V_r = 150$ KIAS, Pitch 10-15, $V_2 = 160$ KIAS

Climb Rate: 250 KIAS,

Descent Rate: FL240 0.75 M, FL180 0.68M, FL120 300 KIAS, FL100 250 KIAS

Approach Rate: 210 KIAS Flaps 1, 180 KIAS Flaps 2, 160 KIAS Flaps Down

Final Rate: 155 KIAS Flaps Down Full

Touch Down: 145 KIAS

Boeing 747-400

Takeoff Spec: Flaps 10, $V_1 = 165$ KIAS, $V_r = 175$ KIAS, 10 deg. Up, $V_2 = 185$ KIAS

Climb Rate: 200 KIAS Flaps 1, 220 KIAS Flaps up, 250 KIAS below FL100, 300 KIAS

Descent Rate: FL240 0.75M, FL180 0.65M, FL120 300 KIAS, FL100 240 KIAS

Approach Rate: 220 KIAS Flaps 5-10, 200 KIAS Flaps 20, 180 KIAS Flaps down

Final Spec: 170 KIAS Flaps down Full

Touch Down: 160 KIAS

Boeing 777-200

Takeoff Spec: Flaps 5, $V_1 = 155$ KIAS, $V_r = 160$ KIAS, Pitch 10, $V_2 = 165$ KIAS

Climb Rate: 190 KIAS Flaps 1, 210 KIAS Flaps up, 250 KIAS to FL100, 280 KIAS

Descent Rate: FL240 0.75M, FL180 0.65M, FL 120 300 KIAS, FL100 240 KIAS

Approach Rate: 210 KIAS Flaps 5-10, 180 KIAS Flaps 20, 160 KIAS Flaps Down

Final Spec: 155 KIAS Flaps Down Full

Touch Down: 150 KIAS