

6 PRESET VALUES FOR DIFFERENT FLIGHT PHASES

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6-1. TAKE-OFF

All the presettings below are valid for

- Aircraft mass: 11,000 lbs.
- Temperature: ISA
- Wind: none

Values will vary for different masses and meteorological conditions.

6-1 TAKE-OFF

Pressure altitude: 500 ft

Vertical Speed: 2800 ft/min

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs)	RPM	Pitch θ°
Down	Up	140	2230	2000	17°

Table 6.1: Preset Values for Take-Off

6-2 CLIMB

Pressure altitude: 2000 ft

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°	Vert. Speed (ft/min)
Normal Climb						
Up	Up	140	2000	2000	14°	2350
Climb at V_Y (best rate of climb)						
Up	Up	121	2230	2000	19°	3000

Table 6.2: Preset Values for Climb

6-3 CRUISE

Pressure altitude: 10,000 ft.

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°
Up	Up	235	2230	1800	0°

Table 6.3: Preset Values for Cruise

6-4 DESCENT

Pressure altitude: 6200 ft.
Vertical speed: -900 ft./min

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°
Up	Up	235	1650	1800	-2°

Table 6.4: Preset Values for Descent

6-5 HOLD

Pressure altitude: 5000 ft.

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°
Up	Up	163	1100	1700	3°

Table 6.5: Preset Values for Hold

6-6 APPROACH

Pressure altitude: 2500 ft
Vertical speed: -600 ft/min

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°
Down	approach	140	640	1900	-1.5°

Table 6.6: Preset Values for Approach

6-7 LANDING

Pressure altitude: 1000 ft

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°
Down	down	120	650	2000	0°

Table 6.7: Preset Values for Landing

6-8 CLIMB WITH ONE ENGINE INOPERATIVE

Pressure altitude: 2000 ft

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°	Vert. Speed (ft/min)
Climb at V_Y (best rate of climb)						
Up	Up	121	2230	2000	10°	1000

Table 6.8: Preset Values for Climb N-1

6-9 CRUISE WITH ONE ENGINE INOPERATIVE

Pressure altitude: 10,000 ft.

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°
Up	Up	180	2230	1900	1°

Table 6.9: Preset Values for Cruise N-1

6-10 DESCENT WITH ONE ENGINE INOPERATIVE

Pressure altitude: 6000

Vertical speed: -800

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°
Up	Up	180	1380	1900	-1°

Table 6.10: Preset Values for Descent N-1

6-11 HOLD WITH ONE ENGINE INOPERATIVE

Pressure altitude: 3000 ft.

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°
Up	Up	160	1770	1900	2°

Table 6.11: Preset Values for Descent N-1

6-12 APPROACH WITH ONE ENGINE INOPERATIVE

Pressure altitude: 2000 ft
Vertical speed: -700 ft/min

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°
Down	Approach	130	1000	1900	-3.5°

Table 6.12: Preset Values for Approach N-1

6-13 LANDING WITH ONE ENGINE INOPERATIVE

Pressure altitude: 1000 ft.

Landing Gear	Wing Flaps	IAS (kts)	Torque (lbs.)	RPM	Pitch θ°
Down	Down	110	1200	2000	-1°

Table 6.13: Preset Values for Landing N-1