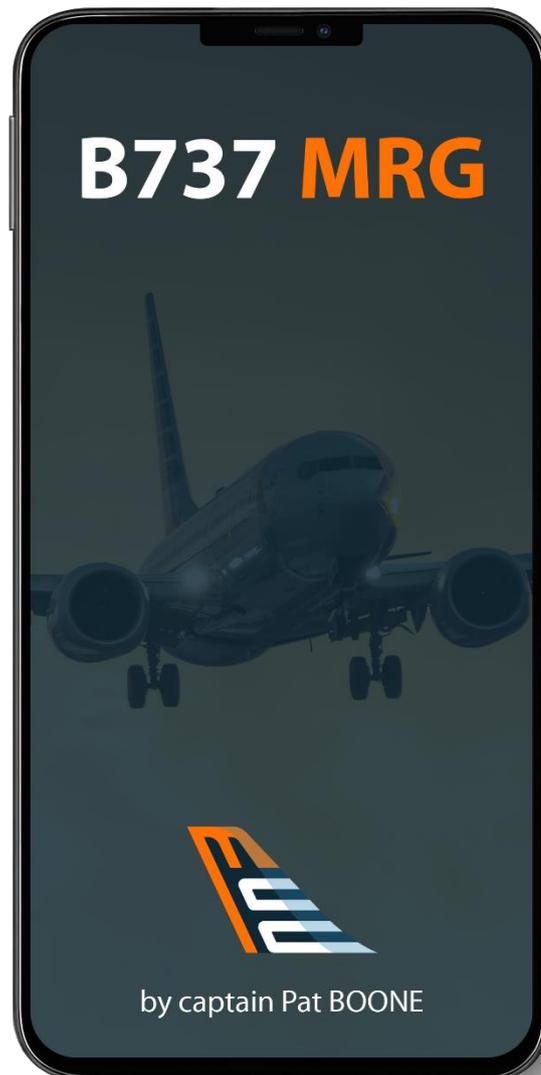


**B737
MRG**

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737-800 PITCH & POWER SETTINGS

Valid for : 63.000 kg 1.013,25 hPa 15 °C
 140,000 lbs 29.92 "Hg 59 °F

wind calm
 engines CFM56-7B26

NORMAL OPERATION – 2 ENGINES

Phase		Body Attitude degrees pitch °	Fuel Flow kg / lbs	Engine N1 % RPM	Speed kts
Takeoff					
Flaps 5		18° - 20°	-	> 90%	V ₂ + 15 to 25 kts
Flaps 5	Reduced	15° - 17°	-	> 85%	V ₂ + 15 to 25 kts
Climb					
Flaps 5		13° - 15°	-	> 80%	V ₂ + 15 to 25 kts
Flaps 5 → UP	1000 fpm	8° → 6°	2300 kg / 5000 lbs	80%	→ 210 kts
Flaps UP	1000 fpm	8°	1900 kg / 4200 lbs	75%	210 kts
FL050		11°	2400 kg / 5300 lbs	80% - 85%	250 kts
FL100		9°	2400 kg / 5300 lbs	80% - 85%	250 kts
FL200		7°	2400 kg / 5300 lbs	80% - 85%	300 kts
Level Flight					
Flaps UP	FL100	1°	1200 kg / 2600 lbs	62%	300 kts
Flaps UP	FL100	2° - 3°	1000 kg / 2200 lbs	58%	250 kts
Flaps UP	< FL050	5° - 6°	1100 kg / 2400 lbs	60%	210 kts
Flaps 1		5° - 6°	1200 kg / 2600 lbs	62%	190 kts
Flaps 5		5° - 6°	1100 kg / 2400 lbs	60%	170 kts
Flaps 15	Gear Down	6°	1500 kg / 3300 lbs	70%	150 kts
Descent					
Flaps UP	Idle	-1°	400 kg / 900 lbs	idle	300 kts
Flaps UP	Idle	1°	400 kg / 900 lbs	idle	250 kts
Flaps UP	1000 fpm	4°	600 kg / 1300 lbs	40% - 45%	210 kts
Flaps 1	1000 fpm	3°	600 kg / 1300 lbs	40% - 45%	190 kts
Flaps 5	1000 fpm	2°	600 kg / 1300 lbs	40% - 45%	170 kts
3° Glide Slope					
Flaps 30	Gear Down	1° - 2°	1000 kg / 2200 lbs	55%	V _{REF30} + 5 kts
Flaps 40	Gear Down	0°	1200 kg / 2600 lbs	65%	V _{REF40} + 5 kts
Go-around					
Flaps 15	Gear Up	13° - 15°	2500 kg / 5500 lbs	85%	V _{REF} + 15 kts

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ONE ENGINE OUT – OPERATION

Phase		Body Attitude degrees pitch °	Fuel Flow kg / lbs	Engine N1 % RPM	Speed kts
Engine Failure at V1					
Flaps 5		12° to 13°	-	> 90%	V ₂
Level Flight					
Flaps 5 → UP		8° → 5°	-	> 90%	V ₂ → 210 kts
Flaps UP		5°	1500 kg / 3300 lbs	70%	210 kts
Flaps 1		5°	2300 kg / 5000 lbs	80%	190 kts
Flaps 5		6°	2300 kg / 5000 lbs	80%	170 kts
Flaps 15	Gear Down	8°	3300 kg / 7300 lbs	92%	150 kts
Descent					
Flaps UP	Idle	0°	400 kg / 900 lbs	idle	250 kts
Flaps UP	1000 fpm	4°	1100 kg / 2400 lbs	55% - 60%	210 kts
Flaps 1	1000 fpm	3°	1100 kg / 2400 lbs	55% - 60%	190 kts
Flaps 5	1000 fpm	2°	1100 kg / 2400 lbs	55% - 60%	170 kts
3° Glide Slope					
Flaps 15	Gear Down	3°	1500 kg / 3300 lbs	70%	V _{REF15} + 5 kts
Go-around					
Flaps 1	Gear Up	12° - 13°	-	>90%	V _{REF15} + 5 kts