

Boeing 777-200ER Quick Reference Guide

Taxi (Dep.)

- Breakaway no more than 35% N1
 - Little thrust required to keep movement going
 - Should roll at idle thrust
 - 90° turns, no more than 10kts GS ~ Sweet spot of 6-8kts
 - Both engines can be started at same time.
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Takeoff

- Flaps 5 (200ER) / Flaps 15 (LR, W, F)
 - Advance PWR to 55% N1 before applying T/O PWR
 - Positive Rate - **Gear up**
 - Initial pitch 15° nose up at a rate of $\approx 2.5^\circ$ /second
 - **Gusty Winds:** A higher takeoff power setting than normal is recommended
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Acceleration Alt. (1000ft AFE)

- Lower nose to 10°
- Retract to Flaps 1
- Set Climb Thrust

Climb

- 250kts to 10,000ft
 - Cruise CLB Spd: 320kts until or @FL280 (2000-3000fpm)
 - >FL280, M0.82 until cruise
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Cruise

- M0.84 – M0.87
- Heavy departures $\geq 662,000$ lbs [300,278kgs] no higher than FL330
- Do not go above FL380 unless lighter than 557,000lbs [252,651kgs]

Fuel Planning

- Hour 1: $\approx 13,000$ lbs [5,897kgs] (higher due to weight and climb to alt)
- Hour 2+: $\approx 12,000$ lbs [5,443kgs]

Descent

- M0.82 until FL280. Reduce to 295kts.
- Reduce to 270kts passing FL180
- Reduce to 250kts below 15,000ft
- Reduce to 240kts below 13,500ft. SPD brakes may be required if heavy

Arrival Planning

- Landings lights ON @ 10,000ft
- Better to be slowed down sooner than later.
- Anticipate aircraft to accelerate with power idle for rates 2000ft/min and greater
- Plan well ahead

Arrival (Configure)

- Downwind or 12nm out and below 255kts, Flaps 1
 - Prior IAF, slow 235kts and Flaps 5
 - ≥ 25 nm, slow 215kts and Flaps 15
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Glideslope Capture

- Base or GS, Gear down, Flaps 20, ARM Speed brake
- Slow to 160kts @ GS Intercept and add Flaps 25/30 (flap preference)
- ≈ 1500 ft AGL, Verify configured for landing

Landing

- Land no slower than 125kts
 - $\approx 58\%$ N1, 1-3° Nose up
 - At 20ft, slightly raise nose to lower descent rate.
 - Hold pitch and slowly reduce power to idle.
 - Power idle at "10 feet" callout
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Reversers & Taxi (Arr.)

- @80kts, Reduce to Idle.
- @60kts, Reversers Stowed
- Clean up flaps, spoilers, lights and start up APU.