

Lesson 1: Boeing 737 Checkout

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How to Land after an ILS Instrument Approach

Follow the ILS Approach and Landing profile.

Action

Key / Control

Initial Segment of Approach

Begin approach at or below 10,000 feet.

Airspeed slowed to at or below 200 knots indicated.

Set flaps to 1.

Press **F7**.

Set power to between 50 and 52 percent N1. (Pitch attitude for level flight will be 5 to 6 degrees nose up.)

Advance throttle (press **F3**).
Reduce throttle (press **F2**).

Complete approach checklist. (During descent planning, determined target speeds and flap settings.)

Intercept for final approach course heading (20 degrees to 45 degrees off final approach course)

Set flaps to 5.

Set power between 53 and 55 percent N1.

Press **F7** until flap gauge points to **5**.

Pitch between 5 and 6 degrees for level flight.

Target speed: 170 knots

Look for localizer movement on CDI.

If cleared for the approach, arm the **APR** button autopilot mode on the **Mode Control Panel** (MCP) if using autopilot.

"Glide Slope Alive"

Gear down

Set flaps to 15.

Press **F7** until flap gauge points to **15**.

If necessary for extended level flight: set power to between 62 and 64 percent N1.

Advance throttle (press **F3**).
Reduce throttle (press **F2**).

Target speed: 160 knots

Just before VASI or Glide Slope intercept ("One dot low" on the glide slope)

Set flaps to 30.

Press **F7** until flap gauge points to **30**.

Set power between 53 and 58 percent N1

Set pitch between 0 degrees and 2 degrees nose up.

Descend at 800 fpm (feet per minute) once established on the VASI or glide slope.

Target speed: Use appropriate Vref speed for your weight (or use 150 knots when using default Flight Simulator settings).

At Glide Slope Intercept

Flaps are at 30.

Power should be in the range of 53 to 58 percent N1.

Target speed should be slowed to 150 to 155 knots

Advance throttle (press **F3**).
Reduce throttle (press **F2**).

Set pitch at 0 degrees.

Establish a 700-to-800-fpm descent now on the glide slope.

Maintain localizer and glide slope.

Maintain airspeed within +10 knots or -5 knots.

Crossing the Threshold

Smoothly reduce power to idle.

Gradually pitch up to 3 degrees nose up.

Touch down and remain on the centerline

Apply reverse thrust.

Apply brakes if Autobrakes were not set.

Disengage thrust reversers

Press and hold **F2**.

Press the **PERIOD (.)** key.

Press **F1**.

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