

## **B777 TYPE RATING – SYSTEMS OVERVIEW**

### **FLIGHT CONTROLS**

The Boeing 777 uses a Fly-By-Wire (FBW) flight control system. Pilot control inputs are transmitted electrically to three Primary Flight Computers (PFCs) and four Actuator Control Electronics (ACEs). There is no mechanical linkage between the cockpit controls and the primary flight control surfaces, except for mechanical backup.

#### **Control Laws**

**Normal Law:** Full FBW with all envelope protections available, including pitch attitude, load factor, bank angle, stall, and overspeed protection. Automatic pitch trim is provided.

**Secondary Law:** Entered following certain PFC or sensor failures. FBW remains active, but some envelope protections and augmentation are lost.

**Direct Law:** Further system degradation results in near-direct relationship between pilot input and surface deflection. No envelope protections and no automatic trim.

**Mechanical Backup:** Loss of all flight control computers. Remaining control is rudder via mechanical cables and stabilizer via manual trim wheel only.

#### **Control Surfaces**

Ailerons (inboard and outboard), elevators, rudder, spoilers, and horizontal stabilizer. All primary surfaces are hydraulically powered with multiple sources for redundancy.

#### **Hydraulics**

Flight controls are powered by the Left, Center, and Right hydraulic systems.

### **LANDING GEAR SYSTEM**

The B777 is equipped with a tricycle landing gear configuration consisting of one nose gear and two main gear assemblies. The 777-300 and 777-300ER use semi-levered gear to reduce tail strike risk.

Normal gear operation is hydraulic and powered primarily by the Center Hydraulic System. Gear and doors are mechanically sequenced.

Alternate gear extension is by gravity free-fall. Hydraulic pressure is not required and the gear mechanically locks down. Gear doors may remain open.

Gear position and warnings are displayed on EICAS using down-lock sensors.

#### **Nose Wheel Steering**

Nose wheel steering is hydraulically powered. The tiller provides full steering authority, while rudder pedals provide limited steering authority.

### **BRAKE SYSTEM**

The B777 uses carbon brakes and a brake-by-wire system. Braking is integrated with antiskid, autobrake, ground spoilers, and thrust reversers.

Normal braking is powered by the Center Hydraulic System. Pilot pedal input is electronically processed and metered to the brakes.

#### **Autobrake**

Autobrake modes include RTO and levels 1 through 4. The system automatically disarms with manual braking or system faults.

#### **Antiskid**

Antiskid is fully automatic and prevents wheel lock-up during manual braking, autobrake operation, and RTO.

# Boeing 777 Pilot Manual

**R Pring**



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## **Table of Contents Boeing 777 Pilot Manual**

1. Understanding the eBook Boeing 777 Pilot Manual
  - The Rise of Digital Reading Boeing 777 Pilot Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Boeing 777 Pilot Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Boeing 777 Pilot Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Boeing 777 Pilot Manual
  - Personalized Recommendations
  - Boeing 777 Pilot Manual User Reviews and Ratings
  - Boeing 777 Pilot Manual and Bestseller Lists
5. Accessing Boeing 777 Pilot Manual Free and Paid eBooks
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- 6. Navigating Boeing 777 Pilot Manual eBook Formats
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  - Boeing 777 Pilot Manual Compatibility with Devices
  - Boeing 777 Pilot Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Boeing 777 Pilot Manual
  - Highlighting and Note-Taking Boeing 777 Pilot Manual
  - Interactive Elements Boeing 777 Pilot Manual
- 8. Staying Engaged with Boeing 777 Pilot Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Boeing 777 Pilot Manual
- 9. Balancing eBooks and Physical Books Boeing 777 Pilot Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Boeing 777 Pilot Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Boeing 777 Pilot Manual
  - Setting Reading Goals Boeing 777 Pilot Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Boeing 777 Pilot Manual
  - Fact-Checking eBook Content of Boeing 777 Pilot Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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