

Boeing 747-400

Boeing 747 Owners' Workshop Manual

An insight into owning, flying, and maintaining the iconic jumbo jet

1. INTRODUCTION TO THE BOEING 747

The Boeing 747, often referred to as the "Jumbo Jet," revolutionized air travel upon its commercial debut in 1970. As the world's first wide-body commercial airliner, its introduction marked a significant milestone in aviation history, making long-haul air travel more accessible and affordable.

This manual focuses primarily on the 747-400 variant, which is the most widely produced and currently the most numerous version of the 747 family still in service. It provides a comprehensive overview of the aircraft's design, operational procedures, and maintenance requirements.

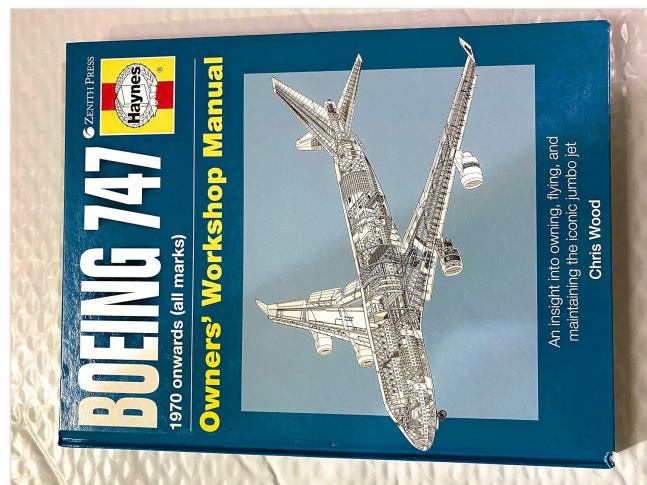


Figure 1.1: The front cover of the Boeing 747 Owners' Workshop Manual, featuring a detailed cutaway illustration of the aircraft.

2. AIRCRAFT ANATOMY AND SYSTEMS

Understanding the fundamental anatomy and complex systems of the Boeing 747 is crucial for both operation and maintenance. This section details the major structural components and integrated systems that enable the aircraft's performance.

2.1 Airframe Structure

The 747's airframe is designed for strength and durability, accommodating its large size and payload capacity. Key structural elements include the fuselage, wings, empennage (tail section), and landing gear.

- **Fuselage:** The main body of the aircraft, housing the flight deck, passenger cabins, and cargo compartments.
- **Wings:** Designed with a distinctive sweep, housing fuel tanks and mounting points for the four engines.
- **Empennage:** Comprising the vertical and horizontal stabilizers, essential for flight stability and control.
- **Landing Gear:** A robust system designed to support the aircraft's immense weight during takeoff, landing, and

ground operations.

2.2 Powerplant

The Boeing 747-400 is powered by four high-bypass turbofan engines, providing the necessary thrust for its operations. These engines are critical for propulsion, and also supply power for various aircraft systems.

2.3 Avionics and Flight Control Systems

Modern avionics and sophisticated flight control systems are integral to the 747's operation. These include navigation, communication, and automated flight management systems, all integrated to assist the flight crew.

3. FLIGHT OPERATIONS

Operating the Boeing 747 requires extensive training and adherence to strict protocols. This section outlines key aspects of flight operations, from pre-flight checks to landing procedures.

3.1 Pre-Flight Procedures

Before each flight, pilots and ground crew conduct thorough inspections and system checks. This includes verifying fuel levels, checking control surfaces, and ensuring all onboard systems are operational.

3.2 Takeoff and Climb

Takeoff involves precise coordination between thrust application, rotation, and climb-out. The flight management system assists in optimizing climb profiles for efficiency and safety.

3.3 Cruise and Descent

During cruise, the aircraft operates at optimal altitude and speed to conserve fuel. Descent planning involves managing airspeed, altitude, and configuration changes to prepare for approach.

3.4 Landing Procedures

Landing requires precise control inputs, including managing flaps, landing gear, and thrust reversers. The approach and landing phases are critical for a safe and smooth touchdown.

4. MAINTENANCE AND AIRWORTHINESS

Maintaining the Boeing 747 to ensure its continued airworthiness is a rigorous process involving scheduled inspections, repairs, and component replacements. This section highlights the importance of regular maintenance.

4.1 Scheduled Maintenance Checks

The 747 undergoes various levels of maintenance checks, from daily pre-flight inspections (A-checks) to extensive heavy maintenance visits (D-checks) performed every few years. These checks ensure all systems and structures are in optimal condition.

- **A-Check:** Minor inspection, typically performed every 400-600 flight hours.
- **C-Check:** More extensive inspection, performed every 20-24 months or 5,000-6,000 flight hours.
- **D-Check:** The most comprehensive inspection, involving disassembly of major aircraft sections, performed every 6-10 years.

4.2 Component Overhaul and Replacement

Key components, such as engines, landing gear, and flight control actuators, have specified service lives and undergo regular overhaul or replacement to prevent failures and ensure safety.

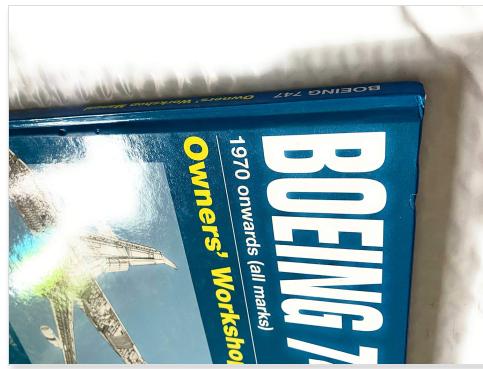


Figure 4.1: The spine of the manual, indicating its comprehensive nature as an Owners' Workshop Manual for the Boeing 747.

5. TROUBLESHOOTING COMMON ISSUES

While modern aircraft are highly reliable, operational issues can arise. This section provides a general overview of common troubleshooting approaches for the Boeing 747, emphasizing the importance of following official maintenance manuals and procedures.

5.1 System Malfunctions

In the event of a system malfunction, flight crews and maintenance personnel follow established checklists and diagnostic procedures. These often involve isolating the faulty component and implementing backup systems or emergency procedures.

5.2 Engine Performance Anomalies

Any deviation in engine performance, such as unusual vibrations, temperature fluctuations, or thrust issues, requires immediate investigation. Pilots are trained to identify these anomalies and take corrective action, which may include engine shutdown or diversion.

5.3 Structural Integrity Checks

Regular visual inspections and non-destructive testing are performed to detect any signs of fatigue, corrosion, or damage to the airframe. Prompt identification and repair of structural issues are paramount for safety.

6. TECHNICAL SPECIFICATIONS (BOEING 747-400)

The following table provides key technical specifications for the Boeing 747-400, the primary focus of this manual.

Specification	Detail
Publisher	Zenith Press
Publication Date	September 15, 2012
Edition	1st
Language	English
Print Length	160 pages
ISBN-10	0760342938
ISBN-13	978-0760342930
Item Weight	1.75 pounds

Specification	Detail
Dimensions	8.5 x 0.63 x 11 inches



Figure 6.1: A close-up view of the manual's corner, highlighting its physical quality.

7. SUPPORT AND RESOURCES

This manual serves as an insightful guide into the Boeing 747. For official operational and maintenance procedures, always refer to the aircraft's certified flight manuals, maintenance handbooks, and regulatory authority guidelines.

As this is a historical and educational manual, direct product support or warranty information for the aircraft itself is not applicable through this publication. For inquiries related to the manual's content or publication, please contact the publisher, Zenith Press.

- **Publisher:** Zenith Press
- **Official Boeing Resources:** Refer to [Boeing's official website](#) for general information on their aircraft.
- **Aviation Authorities:** Consult your local aviation regulatory body (e.g., FAA in the US, EASA in Europe) for airworthiness directives and operational regulations.

BOeing 747-400 NORMAL PROCEDURE CHECKLIST									
POWER UP / SAFETY CHECK									
First Officer	Captain								
CIRCUIT BREAKERS	CHECKED								
STANDBY POWER	ON								
HYDRAULIC DUMP PUMPS	ON								
WINDSHIELD WIPERS	OFF								
LOW PRESSURE TIRE GEAR	DOWN								
GEAR LEVER	UP								
APU	OFF								
APU SYSTEM	SET UP								
APU BLEED AIR	ON								
ISOLATION VALVES	NORMAL								
RAMS	NORMAL								
BEFORE STARTING									
First Officer									
BEFORE ENGINE DRAFTING									
First Officer									
PREFLIGHT									
First Officer	Captain								
EMERGENCY EQUIPMENT	CHECKED								
PRE-FLIGHT CHECKLIST	ON								
INTERRUPT SWITCHES	ON								
STANDBY CUTOUT SWITCHES	NORMAL								
NAVI EQUIPMENT	ON								
EXTERNAL INTERPHONE	CHECKED								
PA SERVICE	STANDBY								
FLUORESCENT LIGHTS	ON								
SEAT BELTS	SET								
CREW BRIEFING	COMPLETED								
HYDRAULIC SYSTEM	NAV								
EMERGENCY LIGHTS	ARMED								
INTERPHONE SWITCHES	OFF								
WINDOW HEAT	ON								
VOICE RECORDER	ON								
REFRIGERATION	ON								
ARCTIC CONDITIONING	SET								
EXTERIOR LIGHTS (WING/DOOR)	SET								
EXTERIOR LIGHTS (TAXI)	SET								
MODE CONTROL PANEL	SET								
SPEDOMETERS	RETRACTED								
THrust LEVER	DOWN AND CLOSED								
RUSTIC CONTROLS	CUT OFF								
FUEL CONTROL SWITCHES	CUT OFF								
NO SMOKING SIGN	SET								
EVAC SIGN	ARM								
BEFORE TAXI									
First Officer	Captain								
BEFORE ENGINE DRAFTING									
PARKING BRAKES									
TAXI ON TIMBER/STOWPATH									

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BOEING 747 400 NORMAL PROCEDURES CHECKLIST doc Owner Boeing Flight Manual Pdf 441

Operations narod.ru 747checklist onebag popups |||

lang:de score:33 filesize: 18 K page_count: 3 document date: 2003-09-05

[\[pdf\]](#) User Manual

Overweight landing fuel jettison Boeing weight the Faa approved airplane flight manual aFm for some 747 400 and mD 11 airplanes includes a limitation on maximum in AERO Q307 article3 boeing commercial aeromagazine articles qtr 3 07 80 |||

Overweight Landing Fuel Jettison What to Consider There are important issues when deciding to land ... in fire. Such procedures are not only aero quiet really qtr_03 07 AIRSPEED kts 210 **747-400** Flaps 25 Placard 200 777 Flaps 20 Placard MD-11 Flaps 35 Placard 190 777 Flaps 25 Placard ...

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StartupBoeing |||

The right choice for the large airplane market StartupBoeing Copyright 2010 Boeing.
All rights reserved. www.StartupBoeing.com May 2010 The 747 family plan Seats 500
450 400 350 The only airplane in the 400- to 500-seat segment 747-8 **747-400 747-400ER** 777-300 777-300ER StartupBoeing 300...

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747-400 performance summary

StartupBoeing

General Electric engines

	Basic	Maximum
Passengers	416 (FC/BC/EC pallets/containers)	416 (23/78/315 5/14)
Engines	CF6-80C2B1F	CF6-80C2B1F
Standard day takeoff flat-rated temperature (BET)	59°F	59°F
Max. takeoff weight	398,150 (87,900)	398,150 (87,900)
Max. landing weight	392,140 (85,000)	392,140 (85,000)
Max. operating empty weight	182,410 (40,000)	182,410 (40,000)
Max. fuel weight	1,850 (400)	1,850 (400)
Design range (MTO) full passenger (permitted)	1,000 (11)	1,000 (11)
Design range (MTO) full passenger (permitted)	6,500 (70)	6,500 (70)
Initial cruise (10,000 ft, 80% MTO)	1,010 (11)	2,010 (25)
Initial cruise (10,000 ft, 80% MTO)	1,010 (11)	2,010 (25)
Landing field length (SL, 10°C)	1,815 (26)	2,175 (25)
Approach based (MLW)	144	144
Takeoff field length (MLW)	238 (35)	298 (45)
6.000 ft		

• Typical mission rates
• Three-class seating
• High-weight landing gear
• High-weight landing gear, landing and takeoff
• High-weight landing gear, landing and takeoff, high density
• High density

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StartupBoeing 747 400 400ER Characteristics and Performance Summary perf boeing 80 assets commercial startup |||

747-400 performance summary StartupBoeing General Electric engines Basic Maximum2 Passengers Cargo FC/BC/EC pallets/containers1 416 23/78/315 5/14 Engines SL standard-day takeoff thrust/flat-rated temperature BET lb/F CF6-80C2B1F 56,500/90 CF6-80C2B1F 62,100/86 Maximum taxi weight ...

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747-400 Freighter Performance summary

StartupBoeing

General Electric engines

	Basic	Maximum
Cargo	416 (MD/LD pallets/LD containers)	3000
Engines	CF6-80C2-B1F	CF6-80C2-B1F
Standard day takeoff flat-rated temperature	59°F	59°F
Max. takeoff weight	394,270 (88,000)	396,255 (87,900)
Max. landing weight	392,140 (85,000)	392,140 (85,000)
Max. operating empty weight	182,410 (40,000)	182,410 (40,000)
Max. fuel weight	1,850 (400)	1,850 (400)
Design range (MTO) full passenger (permitted)	1,000 (11)	1,000 (11)
Design range (MTO) full passenger (permitted)	6,500 (70)	6,500 (70)
Initial cruise (10,000 ft, 80% MTO)	1,010 (11)	2,010 (25)
Initial cruise (10,000 ft, 80% MTO)	1,010 (11)	2,010 (25)
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Approach based (MLW)	144	144
Takeoff field length (MLW)	238 (35)	298 (45)
6.000 ft		

• Typical mission rates
• Three-class seating
• High-weight landing gear
• High-weight landing gear, landing and takeoff
• High-weight landing gear, landing and takeoff, high density
• High density

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StartupBoeing 747 400 400ER Freighter Characteristics and Performance Summary 747f perf boeing assets commercial startup freighters |||

747-400 Freightier Performance summary StartupBoeing General Electric engines Basic Cargo MD pallets/LD pallets/LD containers1 Engines SL standard-day takeoff thrust/flat-rated temperature lb/F CF6-80C2-B1F 56,500/90 Maximum taxi weight Maximum takeoff weight Maximum landing weight Maximum ...

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747-400 Boeing Converted Freighter

High-value, low economic risk replacement for earlier tri and quad-engine freighters

COMMERCIAL AIRLINES SERVICES



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[pdf] Installation Guide

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747-400 Boeing Converted Freighter High-value, low economic risk replacement for earlier tri and quadengine freighters COPYRIGHT 2006 THE BOEING COMPANY

747-400BCF conversion overview Retain existing crew rest 8 upper deck supernumeraries Deletion of the aft, straight stairway and installation o...

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747-8 Airplane Characteristics for Airport Planning

DOCUMENT NUMBER: D6-58326-3

REVISION: REV D

REVISION DATE: December 2024

CONTENT OWNER: Boeing Commercial Airplanes

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CAGE Code 81205 747-8 Airplane Characteristics for Airport Planning DOCUMENT NUMBER: D6-58326-3 R ... nes and is offered in both Freighter and Passenger versions. The 747-8 is externally similar to the 747-400 with a higher gross weight, longer fuselage and increased wingspan. The 747-8 Freighter reta...

lang:en score:24 filesize: 10.8 M page_count: 137 document date: 2024-12-20

747-400 Airplane Characteristics for Airport Planning

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REVISION: REV F

REVISION DATE: December 2024

CONTENT OWNER: Boeing Commercial Airplanes

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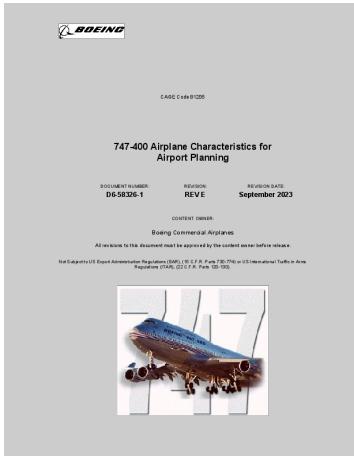
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CAGE Code 81205 747-400 Airplane Characteristics for Airport Planning

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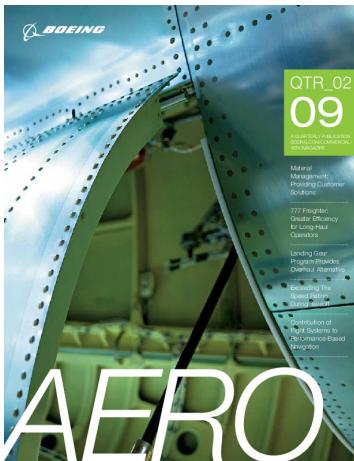
Front Matter Template 5 0 Document Standard Software Service The Boeing Company 747 400 Airplane Characteristics for Airport Planning 2 4 3 Typical Interior Arrangements Model 400ER Dual Class FLUSH TWO 1 IN CM REQS FLOW 10 GPM 38 LPM 30 PSIG 11 KG REV E boeing content dam boeingdotcom commercial airports acaps |||

CAGE Code 81205 **747-400** Airplane Characteristics for Airport Planning

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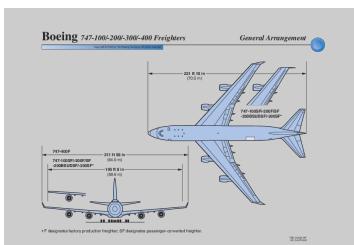


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[\[pdf\]](#) User Manual Specifications

Boeing 747 100 200 300 400 Freighters General Arrangement TBC MD 0075F1 30 3 PH LM KW 100SF 200F SF 300SF Cargo Configuration cargo door loading capability main deck pallets and containers Flight Manual Pdf 441 Operations narod ru b747 ialcargo specs Handbuch für for charter herunterladen als handbuch de redirect url |||

Boeing 747-100/-200/-300/-400 Freighters Copyright 2003 by The Boeing Company. All rights reserved. 231 ft 10 in 70.5 m **747-400F** 747-100SF/-200F/SF -200BSUDSF/-300SF* 211 ft 58 in 64.0 m 195 ft 8 in 59.6 m General Arrangement 747-100SF/-200F/SF -200BSUDSF/-300SF* F designates factory pro...

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01.10.2005 | AirBridge Cargo orders two new Boeing 747-400 Er Freighters

AirBridge Cargo (ABC), Russia's first international scheduled cargo airline and part of the Volga-Dnepr Group has ordered two Boeing 747-400ER Freighters for delivery in October 2007 and February 2008.



The aircraft will be powered by General Electric GEnx-80B2B5F engines and will be operated by AirBridge on cross-polar flights.

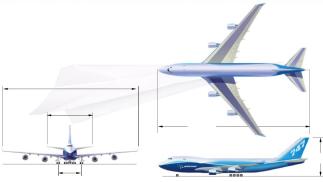
"Our partnership with Boeing and the performance of the 747-400ER Freighter are fundamental to achieving our growth plans. The addition of these advanced aircraft to our cargo fleet will allow AirBridge Cargo to take another step towards the realization of our ambitious project to develop

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ABC Press release 01 10 2005 AirBridge Cargo orders two new Boeing 747 400 Er Freighters Russia s first international scheduled cargo airline and part of the Volga abc press airbridgecargo apps newsPdf id 180 lang en |||

01.10.2005 AirBridge Cargo orders two new Boeing **747-400** Er Freighters AirBridge Cargo ABC , Russia s first international scheduled cargo airline and part of the VolgaDnepr Group has ordered two Boeing **747-400ER** Freighters for delivery in October 2007 and February 2008. The aircraft will be power...

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747-400-400ER Freighters StartupBoeing 64.44 m 211 ft 5 in 22.17 m 72 ft 9 in 11.00 m 36 ft 1 in Copyright 2010 Boeing. All rights reserved. www.StartupBoeing.com 70.66 m 231 ft 10 in 19.40 m 63 ft 8 in May 2010 **747-400**-400ER Freighter Part of a complete Boeing freighter soluti...

lang:en **score:20** filesize: 1.56 M page_count: 40 document date: 2015-03-13

 **Backgrounder**

Boeing in Northern Europe

The Boeing Company enjoys a mutually beneficial business and supplier partnership with many of the major airlines in the continental European region. They are the Benelux countries, the Nordic countries, Austria and Switzerland. This region, with its large commercial airplane fleet and strong industrial base, is of great importance to Boeing. Over the years, Boeing has developed many long-standing relationships with industry, academia and government in Northern Europe.

Boeing Northern Europe is a wholly-owned subsidiary, based in Hamburg, Germany, Northern Europe Boeing, who took this name in August 2011. He is supported by Brian Moran, director, Northern Europe.

Boeing in Austria

The Vienna-based Boeing Airlines Group, including Austrian Airlines, Laudamotion and Tyrolean Airways, also known as Austrian airways, is part of the Lufthansa Group and the Star Alliance. Its fleet includes Boeing 737-800, 777-200 and 787-8ER airplanes.

Boeing has a long-standing supplier relationship with Fischer Advanced Composite Components (FACC) AG, based in Ried im Innkreis. FACC provides large composite parts for Boeing 737, 747, 757, 767, 777, 787 Dreamliner and 747-8 Intercontinental.

Boeing in the Baltic Countries

Boeing has a number of important commercial airline customers in the Baltic region. Latvian airline AirBaltic operates direct flights to destinations in Europe, the Middle East and Asia. The airline has the largest Boeing 737 fleet in Europe, employing a fleet that includes 737-500s and 737-300 aircraft. Estonian Air is also a valued 737 operator.

On the other side, Lithuania and Ukraine are members of the 12-national Boeing Avia Capital Company (SAC) consortium that acquired three Boeing C-17 Globemaster II advanced aircrafts in 2009.

Boeing in the Benelux Countries

Boeing in Belgium

Boeing has approximately 20 employees in Belgium and an office in Brussels, as well as valuable customer and supplier partnerships. Antonio De Patmas is the

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Backgrounder 3 The Boeing Company XXBECKKK beneluxbackgrounder boeing aboutus international docs backgrounders |||

Backgrounder Boeing in Northern Europe The Boeing Company enjoys a mutually beneficial business and ... ith 737 Classic, Next-Generation 737 and 767 airplanes. Cargo carrier TNT Express operates 737s and **747-400** ERFs. Boeing also has a long and productive supplier relationship with ASCO Industries, base...

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Boeing in Korea

Boeing and the Republic of Korea (ROK) have a solid history of working together that goes back more than 40 years. Since then, Boeing has continuously developed its presence in Korea, establishing a presence in the aerospace and defense markets that continue to support the growth of the Korean aerospace industry. Today, Boeing represents one of the largest foreign importers of markets for The Boeing Company's commercial and defense business units.

Boeing Korea was established in 1988 and today employs more than 200 people across its Korean cities — Seoul, Busan, Gimpo, Seosan, Daegu and Gochon. Led by the Managing Director, Boeing Korea works closely with Korean customers such as Korean Air, Asiana Airlines and Jeju Air.

With the appointment of Joseph Song, managing director and vice president, Boeing Korea in 2012, Boeing Korea is well positioned to work closely with current industry partners and defense customers such as Defense Acquisition Program Administration and the Ministry of National Defense while establishing new partnerships to enable growth for both Boeing and the Korean aerospace industry.

Korean Industry Partnerships

Korea's aircraft manufacturing industry began with the establishment of the Korean Aerospace Research Institute (KARI) in 1973. As a partner in this field, KAL-ASD has co-produced military aircraft such as 50MD helicopters, F/A-18 fighters and UH-60 military utility helicopters.

Boeing has a long history of working with KAL-ASD. It is a valuable partner on the 747 and 777 and now supplies composite structures and components on the newest Boeing commercial airliner, the 787 Dreamliner, and the 787-9. KAL-ASD also provides major structural components for the Boeing 747-8. KAL-ASD also provides major structural component parts as a tier 2 supplier for 747-8, 767 and 787.

KAI has a long history of working with Boeing. It began in 1988, developing 777 X-treme and steadily increasing its work. KAI now has contracts with Boeing to provide 777 nacelle fittings, 737 empennages, and 737-based P-8 empernages and more. KAI also provides major structural components for the Boeing 787. KAI also provides major structural component parts as a tier 2 supplier for 747-8, 767 and 787.

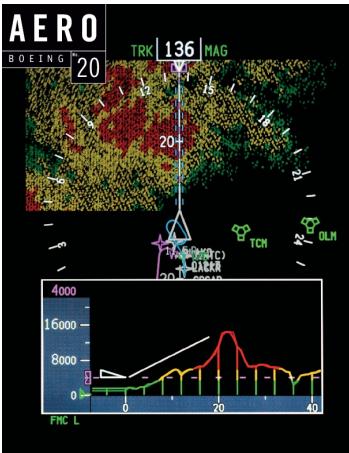
Beyond the military-defense market, KAI is a valued supplier on a number of other Boeing defense programs. It manufactures AH-64 Apache fuselages and F-15 forward fuselages and wings and is a key supplier on the A-10 Wing.

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Boeing in Korea 2 The Company koreabackgrounder boeing assets aboutus international docs backgrounders |||

Backgrounder Boeing in Korea Boeing and the Republic of Korea ROK have a solid history of working ... d a 777 Freighter. As of May 2013, Korean Air operates a total of 88 Boeing passenger airplanes: 15 747-400s, 18 777-200ERs, 11 777-300ERs, four 777-300s and 40 737s 2 20 737-800s, 16 737-900s and f...

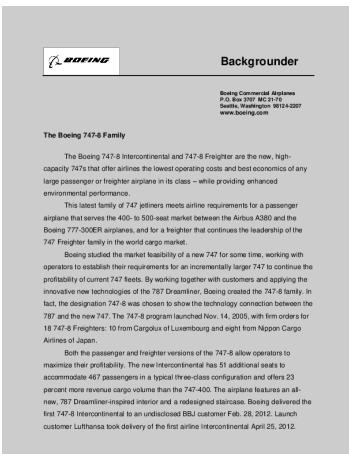
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AERO 20 B O E I N G No. Boeing 40-A Publisher Brian Ames Editor-in-chief Jill Langer Art director/ ... AINTENANCE Updates to the required scheduled maintenance programs for the 747-100/-200/-300 and the **747-400** offer significant cost savings to operators. COVER Vertical situation display on 737 flight...

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747 8 family backgrounder Boeing Commercial Airplanes bck Family boeing 80 farnborough2014 BCA ||| Backgrounder Boeing Commercial Airplanes P.O. Box 3707 MC 21-70 Seattle, Washington 98124-2207 www.b ... ers in a typical three-class configuration and offers 23 percent more revenue cargo volume than the **747-400**. The airplane features an allnew, 787 Dreamliner-inspired interior and a redesigned staircas...

lang:en score:19 filesize: 26.63 K page_count: 3 document date: 2014-06-12



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AERO 21 B O E I N G No. Publisher Brian Ames Editor-in-chief Stephen S. Szechner

Art director/design ... lope signals. TECHNOLOGY/ PRODUCT DEVELOPMENT 19

747ER AND 747ER FREIGHTER The new Longer Range **747-400** airplanes offer significant range and payload improvements and provide greater reliabili...

lang:en **score:19** filesize: 5.08 M page_count: 35 document date: 2002-12-04

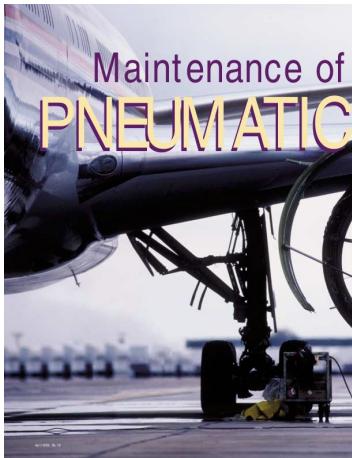


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747 boeing 80 commercial aeromagazine aero 20 |||

747 SCHEDULED MAINTENANCE COST REDUCTIONS Boeing, the U.S. Federal Aviation Administration, and 747 operators have completed a three-year effort to update the required scheduled maintenance programs for the 747-100/200/300 and the **747-400**. The revisions offer significant cost savings for both ne...

lang:en **score:19** filesize: 2.72 M page_count: 12 document date: 2002-08-22

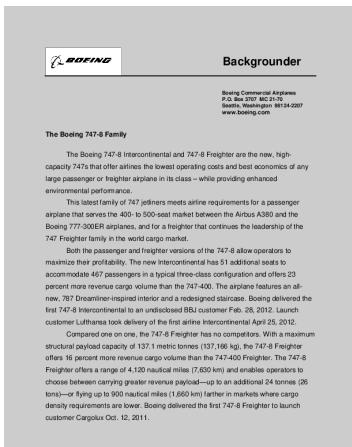


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pneumatic boeing commercial aeromagazine aero 18 |||

Maintenance of PNEUMATIC April 2002, No. 18 747 and 767 BLEED SYSTEMS The pneumatic bleed system o ... rt Association ATA Chapter 36 is the third most frequent cause of schedule interruptions for the **747-400** and the fourth most frequent shutoff valve and pressure-regulating valve position switch. S...

lang:en **score:19** filesize: 279.28 K page_count: 8 document date: 2002-03-06



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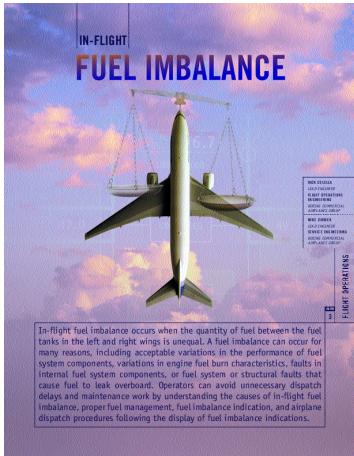
747 8 family backgrounder Boeing Commercial Airplanes Family Backgrounder English boeing resources

boeingdotcom media dubai2015 Backgrounder |||

Backgrounder Boeing Commercial Airplanes P.O. Box 3707 MC 21-70 Seattle,

Washington 98124-2207 www.b ... ers in a typical three-class configuration and offers 23 percent more revenue cargo volume than the **747-400**. The airplane features an allnew, 787 Dreamliner-inspired interior and a redesigned staircas...

lang:en **score:19** filesize: 19.83 K page_count: 2 document date: 2015-10-22



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The Boeing Co fuel boeing 80 commercial aeromagazine aero 09 |||

IN-FLIGHT RICK COLELLA LEAD ENGINEER FLIGHT OPERATIONS E N G I N E E R I N G BOEING COMMERCIAL AIRPL... aded in the center tank and any auxiliary fuel tanks, such as the horizontal stabilizer tank on the **747-400**. On three-engine airplanes fig.3 , fuel is first distributed equally to the wing tanks and ...

lang:en **score:19** filesize: 463.64 K page_count: 7 document date: 1999-12-13



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747ER boeing commercial aeromagazine aero 21 |||

747ER 747 INTRODUCING THE AND 18 AERO First-Quarter 2003 -- January ER FREIGHTER KURT KRAFT PROGRAM MANAGER LONGER RANGE 747 PROGRAM BOEING COMMERCIAL AIRPLANES TECHNOLOGY/PRODUCT DEVELOPMENT The Longer Range 747-400 airplanes -- the **747-400** Extended Range and **747-400** Extended Range Freighter...

lang:en **score:19** filesize: 1.11 M page_count: 8 document date: 2002-12-04

BOEING

Backgrounder

Boeing in Southeast Asia

Boeing has a long history of business and technical collaboration in Southeast Asia. Beginning in the late 1940s with the provision of commercial airplanes to fledgling airlines in the region, Boeing has continued to expand its presence through a network of partnerships in commercial aviation, defense, space and research.

Today, the company remains strongly committed to strengthening and expanding these relationships while continuing to support the development of the aerospace industry in the region. Leveraging its extensive experience in aerospace leadership and innovation, the company has provided Southeast Asian airline customers with the latest Boeing aircraft and services, as well as people helping the region to grow into the vibrant economic sector that it is today.

To foster valuable relationships and to provide a source to customers in Southeast Asia for aircraft and services, Boeing has established offices. Company organizations represented in these offices include Boeing Commercial Airplanes; Boeing Defense, Space & Security; Boeing Commercial Airplane Services; Boeing Defense, Space & Security Services; Boeing Defense, Space & Security Shared Services Group; Technical Services and Modifications; and Supply Chain Management. Boeing has also established a Boeing Asia Center, which has deployed technical support teams in Singapore, Malaysia, Thailand, Vietnam, Philippines, Brunei and Indonesia.

Boeing also has a presence in a number of Southeast Asian companies as suppliers for airplane components, freighter conversion and maintenance. The region's role as a key global logistics hub has been prompting Boeing to expand its regional sales and support teams, as well as its technical support operations in Singapore.

Ralph L. "Skip" Boyce was named president of Boeing Southeast Asia in February 2008. He is responsible for strengthening the company's presence across the region and supporting Boeing growth and productivity opportunities.

Boeing in Singapore

Boeing has had a long relationship with Singapore, resulting in a strong and mutually beneficial collaboration. In the late 1970s, Singapore Airlines (SIA) embarked on a strategy of frequent fleet modernization. This resulted in the airline purchasing 10 Boeing 747-200 aircraft. In 1983, SIA took delivery of its first 747-400, the 1,000th 747 to be produced by Boeing.

In the mid-1990s, SIA further refined its capacity strategy by introducing 777s into its fleet, beginning in 1995 with an order for 34 777s, with options for an additional 42.

1

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Information and Communications Systems was formed in 1997 to manage many of the high technology products services designed built supported by Boeing 3 The Company SEasiabackgrounder boeing assets aboutus international docs backgrounders |||

Backgrounder Boeing in Southeast Asia Boeing has a long history of business and technical collaboration ... ted in the airline purchasing 70 747s between 1978 and 2000. In 1993, SIA took delivery of its 21st **747-400**, the 1,000th 747 to be produced by Boeing. In the mid-1990s, SIA further refined its capaci...

lang:en score:19 filesize: 36.08 K page count: 6 document date: 2013-05-15

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mainfeature boeing news frontiers archive 2006 november |||

n FEATURE STORY Something big is in the air Flight test program is under way for the 747 Large Cargo ... Boeing employees who have spent the past three years designing, building and now flight-testing the **747-400** Large Cargo Freighter. The LCF recently achieved some crucial milestones, including taking t...

lang:en score:19 filesize: 592.93 K page_count: 4 document_date: 2006-10-27

A presentation slide for Boeing Shanghai Aviation Services. It features the company's name in English and Chinese, a Boeing logo, and three images of aircraft maintenance work. The main title 'Boeing Shanghai Overview' is centered at the bottom.

[pdf]

Microsoft PowerPoint Boeing Shanghai Overview for BGS Sep 2017 xiasj Services Maintenance
Execution BoeingShanghaiOverviewSep boeing resources boeingdotcom commercial services overview

11

Boeing Shanghai Overview Boeing Shanghai AGENDA Company Profile Organization
Facility Capabilities 737 Series All Levels 767-200/300 All Levels 747-
100/200/300 C Check 747-8 C Check **747-400**/F C Check 777-200/300 3C Check
and below 787 8/9 up to 2C check Painting 737 767 747 777

lang:en score:19 filesize: 2.95 M page_count: 11 document_date: 2017-09-07

Boeing in France

Boeing has partnered with France for more than 60 years. In 1958, Air France became the first airline outside the United States to enter the jet age on the wings of a 707. Today, Boeing enjoys a strong relationship with France and its aerospace industry. A number of other leading commercial airlines, Boeing has sold aircraft to, fly French routes. Boeing has also established a number of strategic partnerships with the French aerospace industry, with direct sales to Boeing valued at \$5.5 billion in 2017. Boeing has also provided equipment to French military forces, which currently own and operate four A400M and 14 C-130J military transports.

OUR COMMITMENT AND PARTNERSHIP

- 1958** First aircraft delivered to Air France
- 737** The platforms developed by Boeing and its partners are used in 100% Boeing fleet
- 4** AWACS operated by the French Air Force
- 70+** 777 aircraft operated by Air France
- 100+** French suppliers involved in Boeing's manufacturing program
- 14** KC-135 refueling aircraft operated by the French Air Force

INVESTMENTS

Boeing's investments in France have helped grow the local aerospace sector, creating jobs and driving innovation for mutual benefit.

- No.1** No.1 Supplier to French aerospace industry
- \$6.3B** Total investment in France since 2007
- 35,240** French-based employees in 2017

COMMUNITY GIVING

Boeing is proud to support important causes, such as aerospace education in France through our work with nonprofit organization Federation Lycéenne Lagrange.

- 2015** New aerospace faculty and students at Federation Lycéenne Lagrange
- 11 to 15** Age of aerospace students in Boeing's education program
- 1,600** French-based employees

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francebackgrounder boeing resources boeingdotcom company key orgs international France English

Boeing International Country Regional Leadership |||

Building the Future Together Boeing in France Boeing has partnered with France for more than 60 years ... r France has recently ordered 787 Dreamliner airplanes. Air France was also launch customer for the **747-400ER** Freighter in 2001 and the 777 Freighter in 2005. In addition, Air France operates a large ...

lang:en score:18 filesize: 343.93 K page_count: 2 document date: 2019-06-20

Quiet Climb

Boeing has developed the Quiet Climb System, an automated avionics feature for quiet procedures that involve thrust cutback after quietclimb boeing commercial aeromagazine aero 21 |||

Boeing has developed the Quiet Climb System, an automated avionics feature for quiet pr ... ble in first-quarter 2003 on the 737-600/-700/-800/-900. Boeing also is considering the QCS for the **747-400**, which would have an 28 AERO First-Quarter 2003 -- January automatic thrust cutback engi...

lang:en score:18 filesize: 718.19 K page_count: 6 document date: 2002-12-04

© 2002 Boeing. Quiet Climb System. 100-17232-01. Confidential, International, Public. 100-17232-01

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lang:en score:18 filesize: 718.19 K page_count: 6 document date: 2002-12-04

Boeing history chronology

Boeing Chronology 1910-2010

Boeing history chronology

© 2010 Boeing. Boeing history chronology. 100-17232-01. Confidential, International, Public. 100-17232-01

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Boeing Chronology boeing resources boeingdotcom history |||

Boeing history chronology PRE-1910 1910 1920 Boeing history chronology 1930 1940 1950 1960 197 ... Calif. Jan. 26: Dual ceremonies celebrate the simultaneous rollout of the Boeing 737-400 and the **747-400**. Feb. 19: The first Boeing 767-300ER extended range is delivered to American Airlines. ...

lang:en score:18 filesize: 1.21 M page_count: 130 document date: 2015-12-14

Boeing in the Republic of Korea

Boeing has been serving customers in South Korea since 1958 when the DC-3 became the first commercial airplane. Today, Korea is one of Boeing's top international markets, and partnerships in both commercial and defense sectors continue to grow. The Boeing Korea headquarters is located in Seoul. The Boeing Korea is led by President & CEO, John C. Gutfreund, who oversees more than 200 people across multiple sites: Seoul, Inchon, Busan, Gingsan, Daegu and Sacheon.

OUR COMMITMENT AND PARTNERSHIP

- 1948** DC-3 became the first commercial airplane in South Korea
- 6,000+** South Korean employees involved in Boeing's manufacturing and assembly business
- 145,000** South Korean employees involved in Boeing's defense business
- 370+** Boeing employees involved in Boeing's defense business
- 40+** Boeing employees involved in Boeing's defense business
- \$5B+** Boeing investment in South Korea

INVESTMENTS

Boeing's investments in South Korea have helped grow the aerospace sector, creating jobs and driving innovation for mutual benefit.

- \$3.5B+** Boeing investment in South Korea
- \$400M+** Boeing's investment in South Korea
- \$6.4M+** Boeing's investment in South Korea

COMMUNITY ENGAGEMENT

Boeing is proud to support important causes such as education, the environment and leadership training through our work with community partners in Korea.

- \$4.5M+** Boeing's investment in South Korea
- \$1M** Boeing's investment in South Korea
- 13** partner organizations

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koreabackgrounder boeing resources boeingdotcom company key orgs international Full Backgrounder

Boeing International Country Regional Leadership |||

BUILDING THE FUTURE TOGETHER Boeing in the Republic of Korea Boeing and South Korea's partnership da ... onics, data analytics, smart cabin, smart factory and autonomy. Commercial Korean Air: 12 747s 2 **747-400s**, 10 747-8Is 43 777s 14 777-200ERs, 25 777-300ERs, 4 777-300s 31 737s 9 737-800s, 16 7...

lang:en score:18 filesize: 299.43 K page_count: 2 document date: 2020-06-11

Backgrounder

Boeing in Southeast Asia

Boeing's relationship with Southeast Asia began in the late 1960s with the provision of commercial airplanes to fledgling national airlines. Today, Boeing's Southeast Asia activities have grown to encompass partnerships in commercial aviation, defense, space, and security, and manufacturing.

Boeing maintains corporate offices in both Singapore and Malaysia that provide support to customers throughout the region. Businesses include Boeing Commercial Airplanes, Boeing Defense, Space & Security, Boeing Global Services, and subsidiaries Avant, Jeppesen, and SITA.

Ralph L. "Sip" Booy has been president of Boeing Southeast Asia since February 2008. He is responsible for strengthening the company's presence across the region and helping to support its growth and productivity opportunities.

Boeing in Singapore

Boeing Commercial Airplanes

Boeing's relationship with Singapore dates back to the 1970s, when Singapore Airlines (SIA) embarked on a frequent fleet modernization strategy. Over the years, SIA has taken delivery of 10 Boeing aircraft, including the McDonnell Douglas MD-11, 727, 747, 757, 777 and 787 Dreamliners.

Singapore Airlines introduced 777s into its fleet in 1998, beginning with an order for 34 777s and options for an additional 43 777s. In 2013, SIA helped launch the Boeing 787-9 aircraft with a firm order for 10 aircraft. In 2014, SIA and Boeing signed a deal for SIA to formally announce a deal for 20 777-9s and 19 787-10s worth \$13.8 billion at list price.

SIA, the regional arm of SIA, started its transition to an all-Boeing fleet after taking delivery of its first Next-Generation 737-800 in February 2014. The delivery was the first of a 54-aircraft order, largely for its regional subsidiary, Silk. Silk, which included 737-800s and 737 MAXs. Silk took delivery of its first 737 MAX 8 in March 2017.

SIA's other subsidiaries Scoot and SIA Cargo also operate Boeing airplanes. Scoot flies 787 Dreamliners and SIA Cargo operates 747-400 freighters.

BOC Aviation and Boeing have worked together for more than 20 years. The Singapore-based lessor signed a deal for 10 Boeing aircraft in 2014, followed by a second deal in August 2014 for 50 737 MAX 8s, 30 Next-Generation 737-800s and 2 777-300ERs (Extended Range), valued at \$8.8 billion at list prices. In March 2017, the lessor took delivery of its 200th Boeing aircraft. In August 2017, BOC Aviation joined the new 737 MAX 10 launch group of customers with an order for 10 airplanes.

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Boeing in China SEAsia [backgrounder](#) boeing resources boeingdotcom company key orgs international Full [Backgrounder](#) International Country Regional Leadership |||

Backgrounder Boeing in Southeast Asia Boeing's relationship with Southeast Asia began in the late 1960s with the provision of commercial airplanes to fledgling national airlines. Today, Boeing's Southeast Asia activities have grown to encompass partnerships in commercial aviation, defense, space, and security, and manufacturing.

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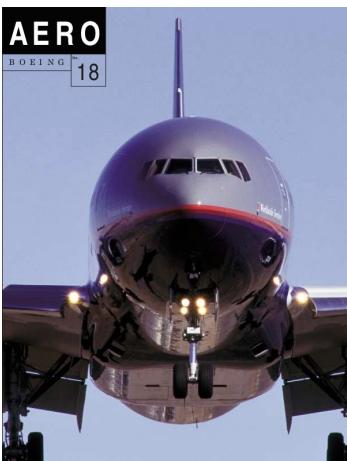
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lang:en **score:18** filesize: 106.87 K page_count: 8 document date: 2018-09-10

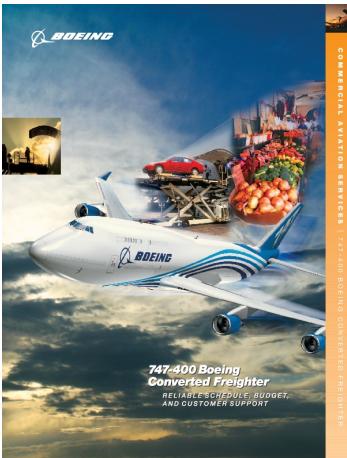


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aero 18 boeing 80 commercial aeromagazine |||

AERO 18 B O E I N G No. Boeing 40B-4 Publisher Brian Ames Editor-in-chief Jill Langer Art director ... rt Association ATA Chapter 36 is the third most frequent cause of schedule interruptions for the 747-400 and the fourth most frequent shutoff valve and pressure-regulating valve position switch. S...

lang:en **score:18** filesize: 1.02 M page_count: 35 document date: 2002-02-28



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737 900EX 12 14 747 400BCF Card boeing commercial aviationservices brochures |||

COMMERCIAL AVIATION SERVICES 747-400 BOEING CONVERTED FREIGHTER
747-400 Boeing Converted Freighter R E L I A B L E S C H E D U L E , B U D G E T , A N D C U S T O M E R S U P P O R T GENUINE BOEING ENGINEERING AND PARTS Renowned 747 Revenue Performance From a Converted Freighter When freight ca...

lang:en **score:18** filesize: 792.18 K page_count: 2 document date: 2005-10-06

Boeing et la France

Boeing est partenaire de l'industrie française depuis plus de 80 ans. En 1928, la France fut une des premières compagnies à entrer en service des Etats-Unis à entrer dans l'île de l'aviation française avec l'acquisition d'un 707. Aujourd'hui, Boeing établit des partenariats dans le secteur de l'aviation. Tous les deux ont des partenariats dans le secteur de l'aviation. Boeing vend plus de 250 avions aux compagnies françaises. Au fil des années, Boeing et la France se sont renforcées et renforcées. Ont aussi conclu un nombre croissant de partenariats dans le secteur de l'aviation. Boeing a également investi dans l'industrie française, en achetant et en élargissant les équipements aux forces militaires françaises et en participant à la recherche et au développement des systèmes de défense et de commerce de partenaires. AVIACIS a 14 sites en France et 10 sites à l'étranger.

NOTRE ENGAGEMENT, NOS PARTENARIATS

- 1958 Lancement du programme Boeing 707 à Paris, un 707
- 737 La compagnie aérienne française a acheté une fois 105 Boeing
- 4 AVIACIS a été acheté par la compagnie aérienne française
- Plus de 700 777 et 787 sont en service avec les compagnies aériennes françaises
- Plus de 100 737 MAX et 787 MAX sont en service avec les compagnies aériennes françaises
- 14 avions de rétablissement sont en service avec les compagnies aériennes françaises

NOUS INVESTISSEMENTS

Boeing contribue à l'essor de l'industrie aéronautique française en créant des emplois et en favorisant l'innovation de façon mutuellement bénéfique.

- 1er partenaire aéronautique de l'industrie française
- 6,2 Mds \$ investis dans la recherche et le développement de l'industrie française
- 38 240 emplois directs et indirects dans l'industrie française
- 2015 Lancement du programme Boeing 787 à Paris, un 787
- De 11 à 15 ans 737 MAX et 787 MAX sont en service avec les compagnies aériennes françaises
- 1 600 participants dans la recherche et la recherche

PROCHÉ DES COMMUNIQUÉS

Boeing est fier de soutenir des causes importantes, telles que la formation aux bâtières aéronautiques en France par le biais de sa collaboration avec la Fédération Léo Lagrange.

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Construisons l'Avenir Ensemble Boeing et la France

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[pdf] Dimension Guide Borchure

Slide 1 bha5742 The Boeing Company 777Xbrochure boeing resources boeingdotcom commercial airports acaps |||

777X Airport Compatibility Brochure

Specific airport compatibility questions concerning Boeing commercial aircraft should be forwarded to the Boeing Commercial Engineering Airport Compatibility Engineering department. E-mail: aircompatibility@boeing.com

May 2015

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lang:en score:18 filesize: 1.36 M page_count: 19 document date: 2016-08-18

Backgrounder

Boeing Commercial Airplanes
P.O. Box 3707
Seattle, Washington 98124-2207
www.boeing.com

The Boeing 747-8 Family

The Boeing 747-8 Intercontinental and 747-8 Freighter are the new, high-capacity 747s that offer airlines the lowest operating costs and best economics of any large passenger or freighter airplane in its class – while providing enhanced environmental performance.

The family of 747 aircraft meets airline requirements for a passenger airplane that serves the 200+ seat market between the Airbus A380 and the Boeing 777-300ER airplanes, and for a freighter that continues the leadership of the 747 Freighter family in the world cargo market.

Boeing studied the market feasibility of a new 747 for some time, working with operators to establish their requirements for an incrementally larger 747 to continue the profitability of current 747 fleets. By working together with customers and applying the innovative new technologies of the 787 Dreamliner, Boeing created the 747-8 family. In November 2011, the 747-8 was chosen to show the technology connection between the 787 and the new 747-8. The 747-8 program launched Nov. 14, 2006, with firm orders for 18 747-8 Freighters, 10 from Cargolux of Luxembourg and eight from Nippon Cargo Airlines of Japan.

Both the passenger and freighter versions of the 747-8 allow operators to maximize the profitability of their aircraft. The 747-8 Intercontinental has 51 additional seats to accommodate 407 passengers in a three-class configuration, and the 747-8 Freighter offers 23 percent more cargo capacity than the 747-400. The 747-8 features a new, 787 Dreamliner-inspired interior and a redesigned staircase...

lang:en score:18 filesize: 14.56 K page_count: 3 document date: 2015-05-11

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Backgrounder Boeing Commercial Airplanes P.O. Box 3707 MC 21-70 Seattle, Washington 98124-2207 www.b ... ers in a typical three-class configuration and offers 23 percent more revenue cargo volume than the **747-400**. The airplane features an all-new, 787 Dreamliner-inspired interior and a redesigned staiscas...

lang:en score:18 filesize: 14.56 K page_count: 3 document date: 2015-05-11

BOEING-PUBLISHED DOCUMENTATION ON ARTICLE RETENTION

Article retention is a critical component of the Boeing 747-400 and 747-400F aircraft. This document provides guidance on the proper handling and storage of articles during transport. It includes information on the use of stowage bins, the placement of articles, and the proper labeling of bins. The document also provides instructions for the removal and re-assembly of articles.

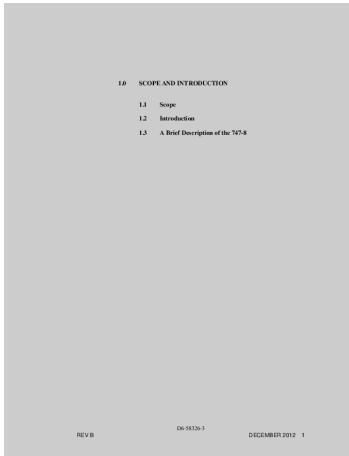
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[pdf] Documentation

retention boeing commercial aeromagazine aero 15 |||

Recently published Boeing documents detail the stowage bin design enhancements currently available: ... 00, and 737-500 airplanes beginning with factory line position 3016, which delivered in March 1998. **747-400** Service letter 747-SL-25-183, dated May 11, 1999, advises operators that PRR no. 85900-92 in...

lang:en score:18 filesize: 483.11 K page_count: 1 document date: 2001-06-19

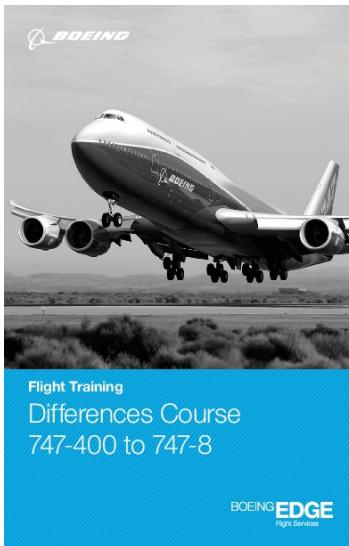


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747 8 AIRPORT PLANNING DOCUMENT Section 1 Scope 747APD Rachel Malcolm Mike Roginski Jack Christy The Boeing Company 7478sec1 boeing assets commercial airports acaps |||

1.0 SCOPE AND INTRODUCTION 1.1 Scope 1.2 Introduction 1.3 A Brief Description of the 747-8 REV B D ... nes and is offered in both Freighter and Passenger versions. The 747-8 is externally similar to the **747-400** with a higher gross weight, longer fuselage and increased wingspan. The 747-8 Freighter reta...

lang:en score:18 filesize: 21.97 K page_count: 4 document date: 2013-01-11



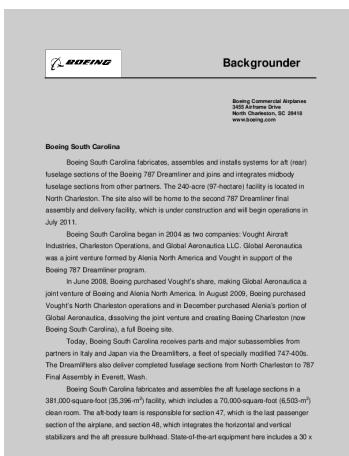
[\[pdf\]](#) Borchure

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Flight Training Differences Course **747-400** to 747-8 Flight Training Differences

Course **747-400** to 747-8 Boeing flight training courses are designed to meet regulatory requirements and the stringent training requirements of airlines. Our flight training solutions are designed by training developer...

lang:en score:18 filesize: 468.74 K page_count: 2 document date: 2013-02-01

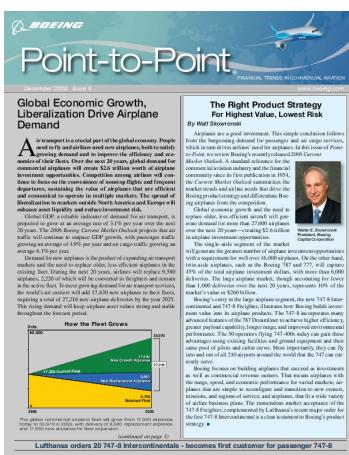


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2 Boeing Commercial Airplanes Julie O Donnell bkg BoeingSC boeing 80 commercial charleston |||

Backgrounder Boeing Commercial Airplanes 3455 Airframe Drive North Charleston, SC 29418 www.boeing.c ... subassemblies from partners in Italy and Japan via the Dreamlifters, a fleet of specially modified **747-400s**. The Dreamlifters also deliver completed fuselage sections from North Charleston to 787 Fin...

lang:en score:18 filesize: 20.25 K page_count: 2 document date: 2010-07-28

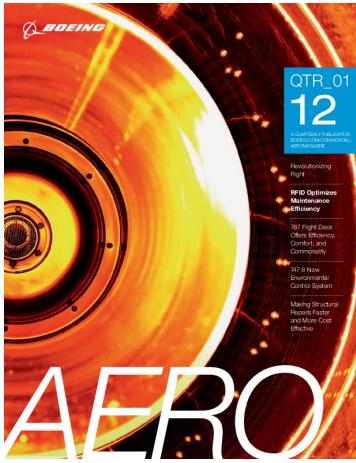


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Sixth Newsletter 12 14 06 indd vkb6058 p2p newsletter boeing commercial P2P |||

Point-to-Point FINANCIAL TRENDS IN COMMERCIAL AVIATION December 2006, Issue 6 www.boeing.com Glo ... payload capability, longer range, and improved environmental performance. The 50 operators flying **747-400s** today can gain these advantages using existing facilities and ground equipment and their ...

lang:en score:18 filesize: 247.36 K page_count: 4 document date: 2006-12-19



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AERO 2012q1 boeing 80 commercial aeromagazine articles 2012 q1 s |||

qtr_01 12 A quarterly publication boeing.com/commercial/ aeromagazine

Revolutionizing Flight RFID Op ... ts in fuel economy and carbon emissions and generates a 30 percent smaller noise footprint than the **747-400**. Now -- as airlines introduce these new airplanes into their fleets -- Boeing tech nical ex...

lang:en **score:18** filesize: 3.71 M page_count: 32 document date: 2014-11-05

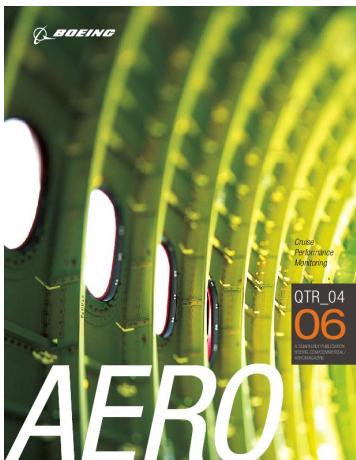


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C O M M E R C I A L A V I A T I O N S E R V I C E S AFM-DPI RETROFIT KITS AFM-DPI Retrofit Kits OP ... rease revenue payload. At many performance-limited airports, given dry runway conditions, a typical **747-400** passenger airplane could add from 1,000 to 4,000 pounds in allowable takeoff weight through ...

lang:en **score:18** filesize: 432.22 K page_count: 4 document date: 2004-06-08



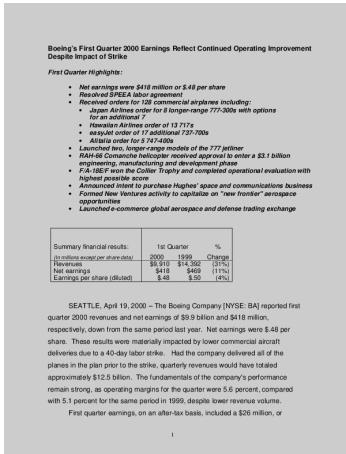
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AERO Q406 article2 boeing 80 commercial aeromagazine articles qtr 4 06 |||

Cruise Performance Monitoring qtr_04 06 a quarterly publication

boeing.com/commercial/ aeromagazine ... study 1: Airframe versus engine -- causes of fuel mileage deterioration An airline that operates a **747-400** airplane fleet was concerned about what it considered to be excessive fuel mileage deteriora...

lang:en **score:18** filesize: 2.2 M page_count: 9 document date: 2006-09-12



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DRAFT BOEING news release 000419a boeing releases 2000 |||

Boeing's First Quarter 2000 Earnings Reflect Continued Operating Improvement

Despite Impact of Strike ... Hawaiian Airlines order of 13 717s easyJet order of 17 additional 737-700s Alitalia order for 5 747-400s Launched two, longer-range models of the 777 jetliner RAH-66 Comanche helicopter received...

lang:en score:18 filesize: 43.33 K page_count: 11 document date: 2000-04-19

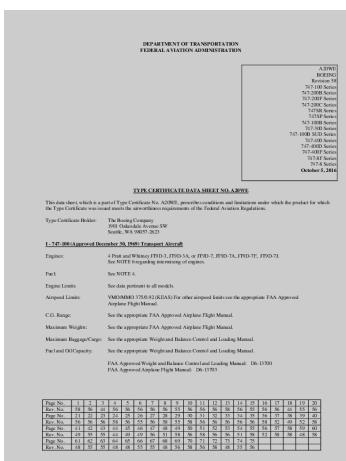


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qt snapshots boeing news frontiers archive 2007 december |||

SNAPSHOT A package deal UPS recently staged an air-to-air film and photo shoot for promotional purposes ... red another 27 of the 767 Freighters, with delivery to begin in 2009. In addition, UPS operates two 747-400Fs and has six 747-400s and two 747-400 Boeing Converted Freighters on order. Photo courtesy ...

lang:en score:18 filesize: 479.73 K page_count: 1 document date: 2007-12-06



Boeing in China

Boeing and China have a long history of cooperation for mutual benefit, going back to 1916. The first engineer hired by Boeing to help design the Model C biwing airplane, was China-born Wong Tsoo. Mr. Wong later returned to China, where he became a prominent engineer.

Since 1972, Boeing has had long-standing relationships with Chinese airlines, the Chinese aviation industry, the Civil Aviation Administration of China (CAAC) and the Chinese government. Boeing foresees that over the next 20 years China will need 1,000 new airplanes, more than any other nation, and will be the company's largest commercial airplane customer. Boeing equity investment in China is currently \$1.5 billion, and Boeing's investment in China is currently greater than other aviation companies in that country. In fact, Boeing is China's aviation manufacturing industry's largest foreign investor.

Today, there are more than 6,000 Boeing airplanes flying throughout the world with parts and assemblies built by China. China has a role on all of Boeing's commercial airplane models: 737, 747, 767, 777, and the newest and most innovative airplane in the Dreamliner family.

China builds horizontal stabilizers, vertical fins, the aft tail section, doors, wing panels, wire harnesses and other parts on the Next-Generation 737, 747-8, 767 and 777. China also builds the vertical fins, the aft tail section, horizontal stabilizers and horizontal rudders. China also has an important role on the new 787 Dreamliner airplane, building the rudder, wing-to-body fairing skins, leading edge and fairing skins. Boeing's first 787 airplane, which will be delivered to China, will be the first conversion location for the new 747-400 Boeing Converted Freighter. Parts and assemblies are built in China, and airplanes are delivered from Xiamen, China.

Boeing signed a 10-year contract with SMC for 737 horizontal stabilizers in September 2007. Boeing and SMC are working together to build the 787.

Then, on March 6, 2010, Boeing announced a collaboration agreement with COMAC. A new COMAC-Boeing Center in Beijing will support "green growth" of the aviation industry in China and potentially around the world, by supporting research and development of aircraft and engines, and by expanding its global footprint. COMAC and Boeing will also exchange market forecasts to expand our understanding of the Chinese market and our products.

Boeing has manufacturing facilities in Beijing, Tianjin, Shanghai, and Xiamen, and in Boeing Shanghai Aviation Service Co. Ltd., a maintenance, repair and

overhaul center. Boeing Tianjin manufactures interior parts and composite

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Boeing in China 3 The Company Lisa Fusch chinabackgrounder boeing aboutus international docs backgrounders |||

Backgrounder Boeing in China Boeing and China have a long history of cooperation for mutual benefit, ... he vertical fin, and other composite parts. China is also the first conversion location for the new **747-400** Boeing Converted Freighter. Parts and assemblies are built in China. Conversion, test and ce...

lang:en **score:18** filesize: 128.79 K page_count: 3 document date: 2012-06-05

Flight plan

Boeing test pilots who will fly the Dreamliner and 747-8 Freighter will soon be in the spotlight, but the goal is to make the first flights as routine as possible

By Eric Feltens/News



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cover boeing news frontiers archive 2009 december |||

Flight plan Boeing test pilots who will fly the Dreamliner and 747-8 Freighter will soon be in the s ... ece. While working for the Federal Aviation Administration, he issued the first type rating for the **747-400** model in 1988 and he co-piloted the final**747-400** on a production flight test last spring. I...

lang:en **score:18** filesize: 467.02 K page_count: 8 document date: 2009-12-04