

Aircraft General Specifications

Boeing 747-400SF Converted Freighter



Aircraft General Specifications

Aircraft Model: B747-409SF

DATA PRODUCED:

Aircraft General Data:

Aircraft General

Manufacturer:	Boeing
Model:	B747-409SF
Current Registration:	ER-BAS
Date of Manufacturer:	Aug 14th, 1991
Total Airframe Hours since New:	89,529 Hours
Total Airframe Cycles since New:	19,123 Cycles
Certification Base	Slovakian Transport Authority
Noise Compliant	ICAO Stage 3
Overall Length	23ft 10in (70.66m)
Wingspan	211ft 5in (64.44m)
Overall Height	63ft 8in (19.4m)
Cruising Speed	Mach 0.855 @ 35,000ft
MAX. Speed	Mach 0.92 @ 35,000ft

Engines

Engine Model



the airplane is equipped with four Pratt Whitney PW4056 - high bypass turbofan engines with FADEC.

Cargo Compartments

Cargo Configuration
-Main deck volume
-Lower deck volume

Main Deck: 30 Pallets | Lower Deck: 32 LD3s
21,462ft³ (607.7m³)
4,605ft³ (130,4m³) including 520ft³ (14.7m³) bulk cargo.

Cargo Loading System



An Ankra electrically powered cargo transfer system is installed in the main deck cargo compartment. In the forward and aft lower lobe cargo compartment the Telair system is in use.

Main Deck Cargo Compartment

The main deck cargo compartment accommodates both container and pallet ULDs and is designed as a FAR Class E compartment

Lower Lobe Cargo Compartment

Two cargo compartments are provided in the lower lobe are designed as FAR Class C compartments. The forward compartment and the constant section of the aft compartment accommodate container and/or pallet ULDs. The tapered section of the aft compartment accommodates bulk cargo.

Cargo Intercom System

A cargo intercom system is installed

Lower Lobe Cargo Compartment Doors

The forward and aft, outward-opening cargo compartment doors have a structural clear opening, approximately 104 inches wide by 66 inches high.

Main Deck Side Cargo Compartment Door

An outward-opening side cargo door has a clear opening, approximately 134 inches wide by 120 inches high (122 inches wide by 123 inches high between the door actuators).

Bulk Cargo Door

A bulk cargo door is installed at approximately Body Station 2005 on the right side of the airplane. The door is an inward-opening, plug-type, and have a clear opening approximately 44 inches wide by 47 inches high.



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Air Conditioning

Air Conditioning

The air conditioning system includes 3 identical air conditioning packs. Each pack has separate controls, cooling equipment and connects to a central air distribution system. The distribution system directs conditioned air from any combination of packs to the flight compartment, upper deck, main deck and lower lobe compartments.

Air Distribution

An air distribution system is installed for the main deck cargo compartment. A separate air distribution system is installed for each lower lobe cargo compartment. The forward and aft compartments are considered individual temperature control zones.

Heating - ground

When the airplane is on the ground, the system is capable of heating the flight compartment, upper deck, and main deck cargo areas to an average temperature of 24 degrees Celsius. The system is capable of heating either or both lower lobe cargo compartments to an average temperature of 27 degrees Celsius.

Heating - in flight

While in flight, the system is capable of heating the flight compartment, upper deck, and main deck cargo areas to an average temperature of 26 degrees Celsius. The system is capable of heating either or both lower lobe cargo compartment to an average temperature of 27 degrees Celsius.

Cooling - ground

When the airplane is on the ground, the system is capable of cooling the flight compartment, upper deck, and main deck cargo areas to an average temperature of 24 degrees. The system is capable of cooling either or both lower lobe cargo compartments to an average temperature of 16 degrees Celsius.

Cooling - in flight

While in flight, the system is capable of cooling the flight compartment and upper deck to an average temperature of 18 degrees Celsius. The system is capable of cooling either or both lower lobe cargo compartments to an average temp of 7 degrees Celsius.

Compliance with Requirements

Reduced Vertical Separation Minimum

The airplane is equipped for reduced vertical separation minimum (RVSM) flight as defined by:
Any airspace or route between FL290 and FL410 inclusive where aircraft are separated vertically by 1,000 feet (300 m).
Prior to commencing RVSM operations, it is the responsibility of the Lessee / Buyer to obtain operational approval from the regulatory.

Long Range Navigation

The airplane is certified for long range navigation using the inertial reference system (IRS) as the sole source for navigation data in the flight management computer system.

Weight & Structural Data:

Max. Take Off Weight	870,000 lbs 394,625 kgs
Max. Taxi Weight	873,000 lbs / 395,986 kgs
Max. Landing Weight	652,000 lbs 295,747 kgs
Max. Zero Fuel Weight	610,000 lbs 276,696 kgs
Delivery Empty Weight	351,380 lbs 159,718 kgs
Fuel Capacity	57,285 usg 216,840 L
Range Capability at MAX Payload	4400 nm 8140 km

Date of conversion: January 2009
Converted by: IAI BEDEK- Israel

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Engines:

Data as of June 11, 2023

Manufacturer Pratt & Whitney
Model PW4056-1A3

S/N	FH/FC since New	Date of Last SV	
724201	72.239 / 16.856	SEP 2006	619 HUB, TURBINE FRONT
724362	72.016 / 13.608	JUL 2012	569 HUB, TURBINE FRONT
727729	60.516 / 11.888		4.012 AIR SEAL, HPT STAGE 2
717621	80.229 / 15.641	MAY 2011	493 HUB, TURBINE FRONT

Auxiliary Power Unit

Data as of June 11, 2023

Manufacturer Pratt & Whitney Canada
Model PW901A

S/N	FH/FC since New
PCE900493	26.420 / 17.472

Landing Gear:

Position	Part Number	Last Overhaul	Next Due
Nose	162U1000-91	2012	NOV 2024
Left Wing	161U1000-89	2012	NOV 2024
Right Wing	161U1000-90	2012	NOV 2024
Left Body	163U1000-47	2015	MAY 2026
Right Body	163U1000-64	2012	NOV 2024

Maintenance Data:

Check	Last Accomplished		Interval	Next Due
	Date	FH/FC		
C	21.05.2015	89353 / 19123	10000 Hours / 24 months	
D	21.05.2015	89353 / 19123	8 / 8 / 6 Years	

Avionics / Communications:

Item	Manufacturer	Part Number	Quantity
ACARS Management Unit	Rockwell Collins	822-0666-003	1
ACMS Data Management Unit	Honeywell	967-0611-001	1
ADF Receiver	Honeywell	2041168-7513	2
Air Data Computer	Honeywell	4040800-908	3
Airborne Data Loader	Allied Signal	964-0401-006	1
ATC Transponder	Rockwell Collins	822-1338-005	2
Audio Communication Control Panel	Rockwell Collins	1167015-1401-141	4
CDU-FMS	Honeywell	4077880-908	3
Cockpit Voice Recorder	L-3 Communications	93A100-80	1
DFDR Solid State	Allied Signal	980-4700-042	1
DME Interrogator	Honeywell	2041167-3706	2

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Item	Manufacturer	Part Number	Quantity
ELT (Fixed / Auto)	Artex Aircraft	463-5004	1
ELT (Portable)	Honeywell	1152892-1M267	1
Flight Control Computer	Rockwell Collins	622-8757-106	3
Flight Management Computer	Honeywell	4052508-952	2
GPWS Computer	Honeywell	965-0976-003-236-236	1
HF Transceiver	Rockwell Collins	622-5272-120	2
IRU	Honeywell	HG1050AE11 / HG1050AD11	3
ILS	Honeywell	2041230-3532	1
GPS	Honeywell	HG2021GC02	3
QAR	Penny & Giles	D52000-64000	1
Radio ALT Transceiver	Thales	9599-607-14940	3
SATCOM Satellite Data Unit	Honeywell	7516100-20050	1
TCAS II 7.1 Computer	L3-comm	7517900-10020	1
VHF Communication Transceiver	Honeywell	064-50000-0110	3
VDRIMKR Receiver	Honeywell	2041231-3613	2
WXR Transceiver	Honeywell	066-50008-0406	2

