

# SPECIFICATION SUMMARY



**BOEING B747-400F**

**Ref # AC201060**

Rev.: No. 2

Date: 08-APR-2020

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## AIRCRAFT IDENTIFICATION

Aircraft Model	B747-409F
Manufacturer Serial Number	TBA
Manufacture Date	APR-2001
Aircraft Registration	TBA
Engines Model	CF6-80C2B1F
APU Model	PW901A

WEIGHTS, OPERATIONAL	Metric	US Customary
Maximum Taxi Weight (MTW)	397`800 (Kg)	877`000 (Lbs)
Maximum Take Off Weight (MTOW)	396`893 (Kg)	875`000 (Lbs)
Maximum Landing Weight (MLW)	302`093(Kg)	666`000 (Lbs)
Maximum Zero Fuel Weight (MZFW)	288`031(Kg)	635`000 (Lbs)
Operating Empty Weight (OEW)	158`936 (Kg)	350`394 (Lbs)
Fuel Capacity (FC)	163`027 (Kg)	359`414 (Lbs)

\* ESTIMATED

## DELIVERY SUMMARY

Delivery Date:	TBA 2020
Airframe:	Fresh from C-check
Engines:	On Average 45% remaining life until next shop visit BSI to be performed
APU:	Serviceable, BSI to be performed
Landing Gears:	Time remaining until next C-Check
Components:	Serviceable & Airworthy
Painting:	As is
Interior Conf.:	Clean, Normal wear & tear
Airworthiness Directives:	In compliance on the delivery date
Documents & Records:	Up to date, in English

## AIRFRAME STATUS

Total Airframe Hours	79`771
Total Cycles	14`380
Status Date	14-AUG-2019

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

## MAINTENANCE STATUS

C - Check interval	24 MO / 10`000 FH
D - Check interval	8YR initial/6 YR repeat
Last C - Check	28-FEB-2020
Last D - Check	28-FEB-2020
Next C - Check	28-FEB-2022
Next D - Check	28-FEB-2026

LDG DETAILS	NLG	LH WLG	RH WLG	LH BLG	RH BLG
Part Number	TBA	TBA	TBA	TBA	TBA
Serial Number	TBA	TBA	TBA	TBA	TBA
Position	NLG	LH WLG	RH WLG	LH BLG	RH BLG
Hours Since New	TBA	TBA	TBA	TBA	TBA
Cycles Since New	TBA	TBA	TBA	TBA	TBA
Last Overhaul Date	TBA	TBA	TBA	TBA	TBA
Cycles Since Overhaul	TBA	TBA	TBA	TBA	TBA
Remaining Cycles	TBA	TBA	TBA	TBA	TBA
Overhaul Due Date	07-JAN-2025	07-JAN-2025	07-JAN-2025	07-JAN-2025	07-JAN-2025
Overhaul Interval	10 Years	10 Years	10 Years	10 Years	10 Years
Wheels & Part Number	TBA	TBA	TBA	TBA	TBA
Brakes & Part Number	TBA				
Status Date	10-DEC-2019	10-DEC-2019	10-DEC-2019	10-DEC-2019	10-DEC-2019

ENGINE / APU DETAILS	Engine 1	Engine 2	Engine 3	Engine 4	AP1
Manufacturer	GE	GE	GE	GE	P&W
Model	CF6-80C2B1F	CF6-80C2B1F	CF6-80C2B1F	CF6-80C2B1F	PW901A
Thrust Rate	59`000 Lbs	59`000 Lbs	59`000 Lbs	59`000 Lbs	

ENGINE / APU STATUS	Engine 1	Engine 2	Engine 3	Engine 4	APU
Serial Number	TBA	TBA	TBA	TBA	TBA
Total Time Since New	65`720	44`440	55306	70`268	23`035
Total Cycles Since New	12`366	7`964	11`712	12`629	22`188
Last Shop Visit Date	TBA	TBA	TBA	TBA	24-DEC-2018
Scope of Shop Visit	TBA	TBA	TBA	TBA	Overhaul
Hours Since Last Shop Visit	3`683	39	2`618	2`092	1`696
Cycles Since Last Shop Visit	772	18	543	416	1`309
First LLP Limiter	6`219	6`703	3`159	5`601	TBA
Status Date	11-DEC-2019	11-DEC-2019	11-DEC-2019	11-DEC-2019	30-NOV-2019

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

## ENGINE Pos.#1 – LLP

### LIFE LIMITED PARTS

<b>Engine Type:</b> CF6-80C2B6F	<b>TSN:</b> 65`720 <b>CSN:</b> 12`366	<b>TSLSV:</b> 3`683 <b>CSLSV:</b> `772	<b>Date:</b> 11-DEC-2019
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NO.	PART NAME	PART NUMBER	TOTAL HOURS	TOTAL CYCLES	LIFE LIMIT CYCLES	REMAINING CYCLES
<b>FAN ROTOR ASSEMBLY</b>						
1)	FAN ROTOR DISK STAGE 1	1856M89P01	67`312	12`439	20`000	7`561
2)	FAN ROTOR STAGE 2-5 SPOOL	1782M80P01	46`088	8`773	20`000	11`227
3)	FAN FWD SHAFT	1855M57G01	68`474	12`592	20`000	7`408
<b>FAN MID SHAFT ASSEMBLY</b>						
4)	FAN MID SHAFT	1862M48P02	26`841	6`546	20`000	13`454
<b>HPC ROTOR ASSEMBLY</b>						
5)	HPC STAGE 1 DISK	1644M21P04	54`481	8`734	20`000	11`266
6)	HPC STAGE 2 DISK	9380M27P08	54`481	8`734	20`000	11`266
7)	HPC SPOOL STAGE 3-9	1856M15G02	43`293	8`005	20`000	11`995
8)	HPC STAGE 10-14 SPOOL SHAFT	1703M49G04	67`312	12`439	20`000	7`561
9)	CDP SEAL DISK	1347M31P01	54`481	8`734	20`000	11`266
<b>HPT ROTOR ASSEMBLY</b>						
10)	HPT STAGE 1 DISK	1531M84G12	7`182	7`204	15`000	7`796
11)	HPT STAGE 2 DISK	9362M43P09	3`683	`772	15`000	14`228
12)	HPT IMPELLER SPACER	1539M12P02	47`936	8`781	15`000	6`219
13)	DIFFUSER VANE RING	2047M10P01	9`315	2`466	15`000	12`534
<b>LPT ROTOR ASSEMBLY</b>						
14)	LPT STAGE 1 DISK	1863M21P01	61`568	12`345	20`000	7`655
15)	LPT STAGE 2 DISK	1863M22P01	61`568	12`345	20`000	7`655
16)	LPT STAGE 3 DISK	1863M23P01	61`568	12`345	20`000	7`655
17)	LPT STAGE 4 DISK	1863M24P01	61`568	12`345	20`000	7`655
18)	LPT STAGE 5 DISK	1863M25P01	61`568	12`345	20`000	7`655
19)	LPT SHAFT	9382M59P10	61`568	12`345	20`000	7`655
						LOWEST LIMITER <b>6`219</b>

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

## ENGINE Pos.#2 – LLP

### LIFE LIMITED PARTS

<b>Engine Type:</b> CF6-80C2B6F	<b>TSN:</b> 44`440 <b>CSN:</b> 7`964	<b>TSLSV:</b> `39 <b>CSLSV:</b> `18	<b>Date:</b> 11-DEC-2019
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NO.	PART NAME	PART NUMBER	TOTAL HOURS	TOTAL CYCLES	LIFE LIMIT CYCLES	REMAINING CYCLES
<b>FAN ROTOR ASSEMBLY</b>						
1)	FAN ROTOR DISK STAGE 1	1703M77P03	73`438	13`297	20`000	6`703
2)	FAN ROTOR STAGE 2-5 SPOOL	1856M71P06	73`438	13`297	20`000	6`703
3)	FAN FWD SHAFT	1855M57G01	73`438	13`297	20`000	6`703
<b>FAN MID SHAFT ASSEMBLY</b>						
4)	FAN MID SHAFT	1862M48P02	73`438	13`297	20`000	6`703
<b>HPC ROTOR ASSEMBLY</b>						
5)	HPC STAGE 1 DISK	1644M21P04	73`438	13`297	20`000	6`703
6)	HPC STAGE 2 DISK	9380M27P08	73`438	13`297	20`000	6`703
7)	HPC SPOOL STAGE 3-9	1856M15G02	53`122	9`472	20`000	10`528
8)	HPC STAGE 10-14 SPOOL SHAFT	1703M49G04	53`122	9`472	20`000	10`528
9)	CDP SEAL DISK	1347M31P01	73`438	13`297	20`000	6`703
<b>HPT ROTOR ASSEMBLY</b>						
10)	HPT STAGE 1 DISK	1531M84G12	20`034	5`503	15`000	9`497
11)	HPT STAGE 2 DISK	9362M43P09	`39	`18	15`000	14`982
12)	HPT IMPELLER SPACER	1539M12P02	`39	`18	15`000	14`982
13)	DIFFUSER VANE RING	2047M10P01	`39	`18	15`000	14`982
<b>LPT ROTOR ASSEMBLY</b>						
14)	LPT STAGE 1 DISK	1863M21P01	73`438	13`297	20`000	6`703
15)	LPT STAGE 2 DISK	1863M22P01	73`438	13`297	20`000	6`703
16)	LPT STAGE 3 DISK	1863M23P01	73`438	13`297	20`000	6`703
17)	LPT STAGE 4 DISK	1863M24P01	73`438	13`297	20`000	6`703
18)	LPT STAGE 5 DISK	1863M25P01	73`438	13`297	20`000	6`703
19)	LPT SHAFT	9382M59P10	73`438	13`297	20`000	6`703
						LOWEST LIMITER <b>6`703</b>

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

## ENGINE Pos.#3 – LLP

### LIFE LIMITED PARTS

<b>Engine Type:</b> CF6-80C2B6F	<b>TSN:</b> 55`306 <b>CSN:</b> 11`712	<b>TSLSV:</b> 2`618 <b>CSLSV:</b> `543	<b>Date:</b> 11-DEC-2019
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NO.	PART NAME	PART NUMBER	TOTAL HOURS	TOTAL CYCLES	LIFE LIMIT CYCLES	REMAINING CYCLES
<b>FAN ROTOR ASSEMBLY</b>						
1)	FAN ROTOR DISK STAGE 1	1856M89P01	64`445	11`562	20`000	8`438
2)	FAN ROTOR STAGE 2-5 SPOOL	1856M71P06	62`650	11`453	20`000	8`547
3)	FAN FWD SHAFT	1855M57G01	65`745	12`043	20`000	7`957
<b>FAN MID SHAFT ASSEMBLY</b>						
4)	FAN MID SHAFT	1862M48P02	65`745	12`043	20`000	7`957
<b>HPC ROTOR ASSEMBLY</b>						
5)	HPC STAGE 1 DISK	1644M21P04	68`370	11`990	20`000	8`010
6)	HPC STAGE 2 DISK	9380M27P08	68`370	11`990	20`000	8`010
7)	HPC SPOOL STAGE 3-9	1856M15G02	63`059	11`384	20`000	8`616
8)	HPC STAGE 10-14 SPOOL SHAFT	1703M49G04	63`128	11`442	20`000	8`558
9)	CDP SEAL DISK	1347M31P01	70`209	12`395	20`000	7`605
<b>HPT ROTOR ASSEMBLY</b>						
10)	HPT STAGE 1 DISK	1531M84G12	60`027	10`955	15`000	4`045
11)	HPT STAGE 2 DISK	9362M43P09	2`618	`543	15`000	14`457
12)	HPT IMPELLER SPACER	1539M12P02	66`325	11`841	15`000	3`159
13)	DIFFUSER VANE RING	9290M28P15	66`325	11`841	15`000	3`159
<b>LPT ROTOR ASSEMBLY</b>						
14)	LPT STAGE 1 DISK	1863M21P01	65`745	12`043	20`000	7`957
15)	LPT STAGE 2 DISK	1863M22P01	65`745	12`043	20`000	7`957
16)	LPT STAGE 3 DISK	1863M23P01	65`745	12`043	20`000	7`957
17)	LPT STAGE 4 DISK	1863M24P01	65`745	12`043	20`000	7`957
18)	LPT STAGE 5 DISK	1863M25P01	65`745	12`043	20`000	7`957
19)	LPT SHAFT	9382M59P10	52`324	8`401	20`000	11`599
						LOWEST LIMITER <b>3`159</b>

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS

## ENGINE Pos.#4 – LLP

### LIFE LIMITED PARTS

<b>Engine Type:</b> CF6-80C2B6F	<b>TSN:</b> 70`268 <b>CSN:</b> 12`629	<b>TSLSV:</b> 2`092 <b>CSLSV:</b> `416	<b>Date:</b> 11-DEC-2019
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NO.	PART NAME	PART NUMBER	TOTAL HOURS	TOTAL CYCLES	LIFE LIMIT CYCLES	REMAINING CYCLES
<b>FAN ROTOR ASSEMBLY</b>						
1)	FAN ROTOR DISK STAGE 1	1856M89P01	44`021	8`125	20`000	11`875
2)	FAN ROTOR STAGE 2-5 SPOOL	1856M71P06	44`021	8`125	20`000	11`875
3)	FAN FWD SHAFT	1855M57G01	44`021	8`125	20`000	11`875
<b>FAN MID SHAFT ASSEMBLY</b>						
4)	FAN MID SHAFT	1862M41P04	90`079	12`915	20`000	7`085
<b>HPC ROTOR ASSEMBLY</b>						
5)	HPC STAGE 1 DISK	1644M21P04	49`749	7`955	20`000	12`045
6)	HPC STAGE 2 DISK	9380M27P08	49`749	7`955	20`000	12`045
7)	HPC SPOOL STAGE 3-9	1856M15G02	33`220	1`257	20`000	18`743
8)	HPC STAGE 10-14 SPOOL SHAFT	1703M49G03	65`008	11`705	20`000	8`295
9)	CDP SEAL DISK	1347M31P01	49`749	7`955	20`000	12`045
<b>HPT ROTOR ASSEMBLY</b>						
10)	HPT STAGE 1 DISK	2116M75P01	13`841	5`920	15`000	9`080
11)	HPT STAGE 2 DISK	9362M43P09	2`092	`416	15`000	14`584
12)	HPT IMPELLER SPACER	1539M12P02	32`225	9`399	15`000	5`601
13)	DIFFUSER VANE RING	9290M28P15	49`749	7`955	15`000	7`045
<b>LPT ROTOR ASSEMBLY</b>						
14)	LPT STAGE 1 DISK	1863M21P01	66`258	12`234	20`000	7`766
15)	LPT STAGE 2 DISK	1863M22P01	66`258	12`234	20`000	7`766
16)	LPT STAGE 3 DISK	1863M23P01	66`258	12`234	20`000	7`766
17)	LPT STAGE 4 DISK	1863M24P01	66`258	12`234	20`000	7`766
18)	LPT STAGE 5 DISK	1863M25P01	66`258	12`234	20`000	7`766
19)	LPT SHAFT	9382M59P10	66`258	12`234	20`000	7`766
						LOWEST LIMITER <b>5`601</b>

NOTE: AVERAGE UTILISATION 320 FH & 60 FC PER MONTHS



MAJOR AVIONICS EQUIPMENT			
DESCRIPTION	MANUFACTURER	PART NUMBER	QTY
<b>ATA 22 - Automatic Flight Controls</b>			
FCU - FLIGHT CONTROL UNIT	ROCKWELL	622-8780-103	1
FCC - FLIGHT CONTROL COMPUTER	Rockwell Collins	822-1261-101	3
FMC	Honeywell	4052508-952	2
<b>ATA 23 - Communication</b>			
VHF Transceiver - VERY HIGH FREQUENCY TRANSCEIVER	Honeywell	064-50000-0110	3
HF Transceiver - HIGH FREQUENCY TRANSCEIVER	Rockwell Collins	822-0990-002	2
SELCAL - SELECTIVE CALLING SYSTEM DECODER	AVTECH	1200008-000	1
ACARS - AIRCRAFT COMMUNICATION ADDRESSING & REPORTING SYSTEM	Rockwell Collins	822-1239-101	1
SSCVR - SOLID STATE COCKPIT VOICE RECORDER	L3 com	2100-1020-00	1
<b>ATA 31 - Indication and Recording System</b>			
FDIU/FDIMU(DFDAC)	Boeing	285U0071-207	1
SSDFDR - SOLID STATE DIGITAL FLIGHT DATA RECORDER	Honeywell	980-4700-042	1
ACMS-DMU	Honeywell	967-0611-001	1
ADC	Honeywell	4040800-911	3
<b>ATA 34 - Navigation</b>			
IRU - Inertial Reference Unit	Honeywell	HG1050AE15	3
SATCOM	Honeywell	7516100-20060	1
LRRA	Thomson (F0057)	9599-607-14940	3
MMR - MULTI-MODE RECEIVER	Honeywell	066-50029-1101	3
WEATHER RADAR TRANSCEIVER	Rockwell Collins	822-1710-001	2
TCAS - TRAFFIC ALERT & COLLISION AVOIDANCE SYSTEM COMPUTER	ACSS	7517900-10020	1
EGPWS - ENHANCED GROUND PROXIMITY WARNING SYSTEM	Honeywell	965-0976-003-222-222	1
DME - DISTANCE MEASURING EQUIPMENT INTEROGATOR	Rockwell Collins	822-0329-001	2
ATC - AIR TRAFFIC CONTROL TRANSPONDER	Rockwell Collins	822-1338-005	2
ADF - AUTOMATIC DIRECTION-FINDING RECEIVER	Rockwell Collins	822-0299-001	2
VOR - VERY HIGH FREQUENCY OMNI-DIRECTIONAL RANGE RECEIVER	Rockwell Collins	822-0297-001	2

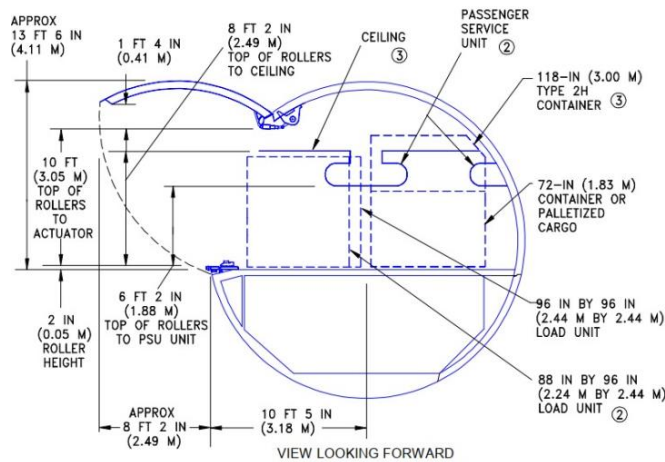
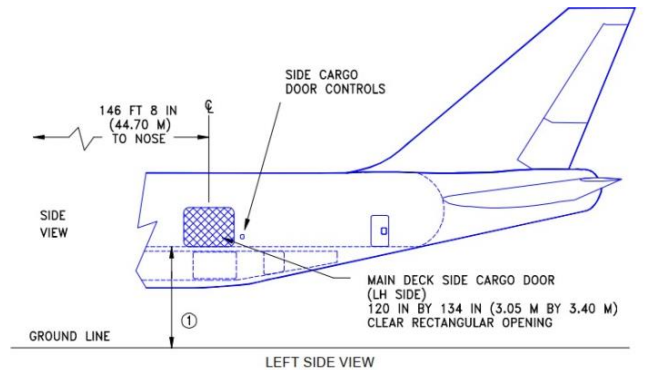
## INTERIOR CONFIGURATION

Galleys	1	Catering Standard	ATLAS
Lavatories	1	Ovens, Water Boilers/Coffey Makers	TBA
Attendant Seats	TBA	Cockpit Configuration	Standard (2+2)
In Flight Entertainment	TBA	Flight Crew Rest	TBA

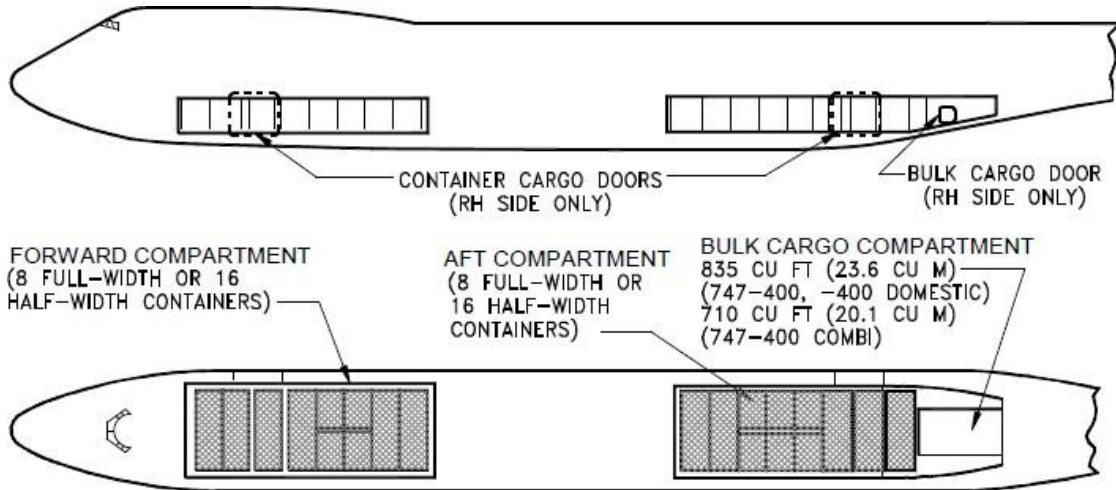
Seats	Quantity	Manufacturer	Model
Business Class	4	TBA	TBA

## CARGO CONFIGURATION

Cargo Configuration	CLS	Designee (Fire Detection/Protection) class	D
Cargo Volume	692 m <sup>3</sup>	Containers	See below
Load Limitation	TBA	Main Deck Cargo Door(s)	134" x 120"
		Lower Deck Cargo Door(s)	FW 104" x 68" AFT 104" x 68" Bulk 44"x 47"



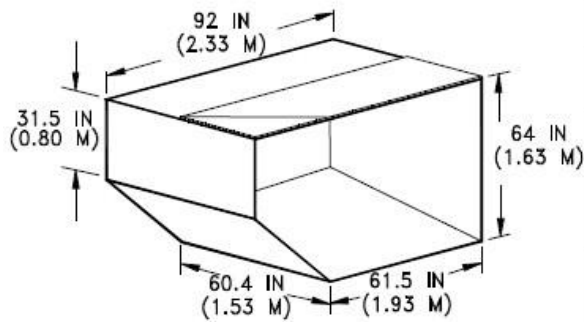
- ① SEE SECTION 2.3 FOR DOOR SILL HEIGHTS
- ② PSU'S ARE REMOVED WHEN 96-IN HIGH CONTAINER OR PALLET IS LOADED
- ③ CEILING IS REMOVED WHEN TYPE 2H CONTAINER IS LOADED



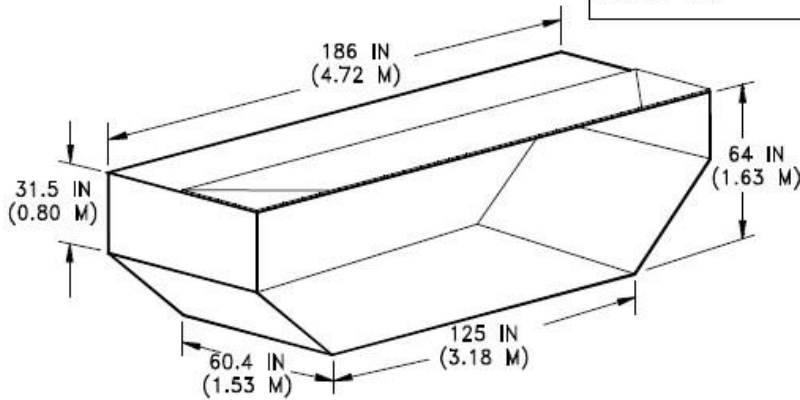
FORWARD COMPARTMENT  
(8 FULL-WIDTH OR 16  
HALF-WIDTH CONTAINERS)

AFT COMPARTMENT  
(8 FULL-WIDTH OR  
16 HALF-WIDTH  
CONTAINERS)

BULK CARGO COMPARTMENT  
835 CU FT (23.6 CU M)  
(747-400, -400 DOMESTIC)  
710 CU FT (20.1 CU M)  
(747-400 COMBI)



HALF-WIDTH CONTAINER (LD1)



FULL-WIDTH CONTAINER (LD2)

CONTAINER DATA		
	HALF-WIDTH	FULL-WIDTH
INTERNAL VOLUME PER CONTAINER	173 CU FT 4.9 CU M	350 CU FT 9.9 CU M
TARE WEIGHT	270 LB 123 KG	470 LB 213 KG
MAXIMUM CARGO WEIGHT PER CONTAINER	3,230 LB 1,467 KG	6,530 LB 2,965 KG
MAXIMUM GROSS WEIGHT PER CONTAINER	3,500 LB 1,590 KG	7,000 LB 3,180 KG
TOTAL VOLUME OF 16 FULL-WIDTH CONTAINERS IS 5,600 CU FT (158.6 CU M)		
GROSS WEIGHT FOR 16 FULL-WIDTH OR 32 HALF-WIDTH CONTAINERS IS 112,000 LB (50,802 KG)		

NOTES:

1. CONTAINER WEIGHT AND DATA ARE TYPICAL. CONSULT USING AIRLINE FOR SPECIFIC DATA.
2. OPTIONS ARE OFFERED FOR CARRAIGE OF CERTAIN STANDARD MILITARY AND COMMERCIAL PALLETS IN CONTAINER COMPARTMENTS.

# PERFORMANCE

FOR INFORMATION PURPOSES ONLY

- NOTES:
- \* STANDARD DAY
  - \* 0.85 MACH STEP CRUISE
  - \* FAR INTERNATIONAL RESERVES
  - \* 10% TRIP AIR TIME
  - \* 200-NMI ALTERNATIVE
  - \* 1/2 HOUR HOLD AT 1,500 FT
  - \* NORMAL POWER EXTRACTION AND AIR CONDITIONING BLEED
  - \* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE AND OEW PRIOR TO FACILITY DESIGN

