

Master

This publication has been superseded by the **Airport**
planning publication

APP

Publication (ACP)

Aircraft Characteristics

BD500-3AB48-22000-00

Issue No. 032

Copyright © 2023 Airbus Canada Limited Partnership

All rights reserved. No part of this work may be reproduced or copied in any form or by any means without written permission of Airbus Canada Limited Partnership.

The Airbus and A220 logos are registered trademarks of Airbus Canada Limited Partnership.

The information, technical data and the designs disclosed herein are the exclusive property of Airbus Canada Limited Partnership or contain proprietary rights of others and are not to be used or disclosed to others without the written consent of Airbus Canada Limited Partnership. The recipient of this document, by its retention and use, agrees to hold in confidence the technical data and designs contained herein. The foregoing shall not apply to persons having proprietary rights to such information, technical data or such designs to the extent that such rights exist.

Publication No.: BD500-3AB48-22000-00

Manufacturer:



Airbus Canada Limited Partnership
Customer Services
13100 Henri-Fabre Blvd., Mirabel, Quebec
Canada J7N 3C6

Applicable to: All

A220

BD500-3AB48-22000-00 This publication has been

superseded by the

Aircraft Characteristics Publication (ACP)
Intentionally left blank

Applicable to: All

2023-10-19 Page 2

A220

BD500-3AB48-22000-00

Highlights

Issue 032

The listed changes are introduced in Issue 032, dated 2023-10-19, of this publication.

Data module code Reason for change

BD500-A-J00-00-00-20AAA-018A-A Changed Data Module

To update the title to Aircraft Characteristics

This publication has been superseded by the

BD500-A-J00-00-00-12AAA-030A-A Changed Data Module

To add A220 ACJ data

Aircraft Characteristics Publication (ACP)

BD500-A-J00-00-00-17AAA-030A-A Changed Data Module

To add A220 ACJ data

BD500-A-J00-00-00-11AAA-030A-A Changed Data Module

To add the A220 ACJ data

Applicable to: All

superseded by the

Aircraft Characteristics Publication (ACP)
Intentionally left blank

Applicable to: All

2023-10-19 Page 2

Technical Publications Comment form

AIRBUS A220

TO: MCR FOCAL, TECHNICAL
PUBLICATIONS AIRBUS CANADA
LIMITED PARTNERSHIP

Name of airline:

13100, BOULEVARD HENRI-FABRE MIRABEL, QUEBEC, CANADA, J7N 3C6 E-MAIL ADDRESS: A220_UCFocal@abc.airbus	A220 reference #:
	Date: dd-mmm-yyyy

All fields marked with an asterisk* are required

Contact information

*Name:	*Corporation name:	*Dept name/Code: he
Address:	City:	t by) Province/State:
Postal code / Zip:	Country:	(AC ^P *Telephone:
Mobile/Cell phone:	Fax number:	*E-mail:

I would like to receive notification of actions on this request. NOTE: Responses will only be sent by electronic mail

Publication information

*Aircraft type:	*Aircraft model:	*Publication Module Code (PMC):
*Publication title/Issue:	*Media Type: Paper Web	*Data Module Code (DMC):
Data module title:		Originator's reference number:

This Aircraft Cha^C *Comments:

Reason for change:

Reference data provided: Yes No Description:

June 01/2019

AIRBUS A220

This publication has been superseded by the
Aircraft Characteristics Publication (ACP)- Intentionally left blank

Applicable to: All

BD500-3AB48-22000-00

A220

Change record

Check in the following record that all earlier changes has been incorporated.

		Date by (signature)	Issue Incorporated	Date by (signature)
Issue Incorporated	Jul 29/2014	<u>Initial issue</u>	020-01 021	on file Sep 19/2019
001 002	Dec 19/2014	BCSG	Sep 05/2019 Signature	Signature on file

003	Sep 15/2015	BCSG	021-01	on file
			Oct 31/2019	Signature
004	Sep 24/2015	BCSG	021-02	Signature on file
			Nov 07/2019	

Aircraft Characteristics Publication (ACP)-

005 Mar 08/2016	BCSG	022	Nov 14/2019	Signature on file
006 007 008 009 010	11/2017 Not released		024-01 025	Feb 06/2020 Signature on file
011 012	May 18/2017 BCSG Jun		025-01 026	Feb 20/2020 Signature on file
Apr 20/2016 BCSG May	15/2017 BCSG Oct		Dec 12/2019 Signature	Aug 27/2020 Signature on file
20/2016 BCSG Nov	12/2017 BCSG		on file Dec 19/2019	Sep 17/2020 Signature on file
17/2016 BCSG May	022-01 023		Signature on file Jan	on file
	024		16/2020 Signature on file	
013	Jan 25/2018 BCSG	026-01	Feb 25/2021 Signature on file	
014	Jul 26/2018 BCSG Aug	026-02 027-00 27-01	Jun 10/2021 Signature on	
014-01 015	16/2018 BCSG Aug	028-0 28-01 029-00	file Jun 17/2021 Signature	
015-01 016	23/2018 BCSG Sep	030-00 30-01 031-00	on file May 19/2022	
016-01 017	20/2018 BCSG Oct	31-01 031-02	Signature on file Oct	
017-01 018		Mar 04/2021 Signature on	file Mar 18/2021	13/2022 Signature on file
018-01 019	04/2018 BCSG Oct	Signature on file May	file Sep 21/2023	Oct 20/2022 Signature on
Feb 15/2018 BCSG Jun	<u>18/2018</u> BCSG Feb	06/2021 Signature on file	Signature on file Sep	
07/2018 BCSG Jun	21/2019 BCSG Mar	May 20/2021 Signature	28/2023 Signature on file	
14/2018 BCSG	14/2019 BCSG	on file		
019-01		032-00 Oct 19/2023 Signature on	file	
May 30/2019 BCSG				
020	Jun 20/2019 Signature on file			

Applicable to: All



BD500-3AB48-22000-00 This publication has been

superseded by the

Aircraft Characteristics Publication (ACP).

Applicable to: All

2023-10-19 Page 2



BD500-3AB48-22000-00

List of effective data modules

of pages
Applicable to

The listed documents are included in Issue 032, dated 2023-10-19, of this publication.

A220-100 Aircraft Char
BD500-A-J00-00-00-20AAA-018A-A C 2023-09-15 3
50001-54999

C = Changed data module
N = New data module

Document title Data module code Issue date No.

This publication has been superseded by the act eristics -

Introduction

Aircraft description - 50001-54999
BD500-A-J00-00-00-12AAA-030A-A C 2023-09-08 34
Technical data

Aircraft Characteristics

Aircraft performance - Technical data

Ground maneuvering - Technical data

Terminal servicing - Technical data

Operating conditions - Technical data

Pavement data - Technical data

Derivative aircraft - Technical data

Scaled drawings - Technical data

BD500-A-J00-00-00-13AAA-030A-A 2015-09-01 14

50001-54999 BD500-A-J00-00-00-19AAA-030A-A

2019-10-22 33 50001-54999

BD500-A-J00-00-00-18AAA-030A-A 2022-09-30 40

Publication (ACP)

50001-54999 BD500-A-J00-00-00-17AAA-030A-A C

2023-09-08 14 50001-54999

BD500-A-J00-00-00-11AAA-030A-A C 2023-09-08 66

50001-54999 BD500-A-J00-00-00-22AAA-030A-A

2019-10-22 1 50001-54999

BD500-A-J00-00-00-21AAA-030A-A 2019-10-22 2

50001-54999

Applicable to: All

2023-10-19 Page 1



BD500-3AB48-22000-00 This publication has been

superseded by the

Aircraft Characteristics Publication (ACP)
Intentionally left blank

Applicable to: All

2023-10-19 Page 2

A220

BD500-3AB48-22000-00

Table of contents

The listed documents are included in Issue 032, dated 2023-10-19, of this publication.

Document title	Data module code	Issue date	Applicable to
A220-100 Aircraft Characteristics - Introduction			50001-54999
BD500-A-J00-00-00-20AAA-018A-A		2023-09-15	

Aircraft description - Technical data BD500-A-J00-00-00-12AAA-030A-A 2023-09-08 50001-54999 **This**

publication has been superseded by the

Aircraft performance - Technical data BD500-A-J00-00-00-13AAA-030A-A 2015-09-01 50001-54999 Ground

maneuvering - Technical data BD500-A-J00-00-00-19AAA-030A-A 2019-10-22 50001-54999 **Aircraft**

Characteristics Publication (ACP)

Terminal servicing - Technical data BD500-A-J00-00-00-18AAA-030A-A 2022-09-30 50001-54999 Operating conditions - Technical data BD500-A-J00-00-00-17AAA-030A-A 2023-09-08 50001-54999 Pavement data - Technical data BD500-A-J00-00-00-11AAA-030A-A 2023-09-08 50001-54999 Derivative aircraft - Technical data BD500-A-J00-00-00-22AAA-030A-A 2019-10-22 50001-54999 Scaled drawings - Technical data BD500-A-J00-00-00-21AAA-030A-A 2019-10-22 50001-54999

Applicable to: All

A220

BD500-3AB48-22000-00 This publication has been

superseded by the

Aircraft Characteristics Publication (ACP)
Intentionally left blank

Applicable to: All

2023-10-19 Page 2

A220

BD500-3AB48-22000-00 **A220-100 Aircraft
Characteristics - Introduction**

Applicability: 50001-54999

A220-100 Aircraft Characteristics - Introduction..... 1
 References..... 1
 Description..... 1 1
 Scope of the publication..... 1 2 Publication

organization..... 1 **This**

publication has been superseded by the

3 Dimensions and weight..... 2 4
 Correspondence..... 2 5
 Translation of publication..... 2

Aircraft Characteristics Publication (ACP)

6 Standard term definitions..... 2 7
 Acronyms..... 3

List of tables Page 1

References..... 1 **References**

Table 1 References

Data Module/Technical Publication Title

None

Description

1 Scope of the publication

The A220-100 Aircraft Characteristics , prepared by Airbus, contains general data on the airport facilities, ramp, and runway areas necessary to operate the Airbus commercial aircraft model BD-500-1A10 (A220-100).

Since operational practices vary among airlines, specific data should be coordinated with the user airlines prior to facility design. For additional information, please contact Airbus.

The content of this publication will change as options and aircraft changes occur. Make sure that you refer to the latest release of this publication.

If there is a difference between the data contained in this publication and that given by the local regulatory authority, the data from the local regulatory authority must be obeyed.

2 Publication organization

This publication is divided into eight sections:

- Aircraft description
- Aircraft performance
- Ground maneuvering

A 2023-09-15 Page

See applicability on the first page of the DM

1

BD500-A-J00-00-00-20AAA-018A-A

BD500-A-J00-00-00-20AAA-018A-

- Terminal servicing
- Operating conditions
- Pavement data
- Derivative aircraft
- Scaled drawings

3 Dimensions and weight

Linear dimensions given in this publication are in inches. The metric equivalents are given in parentheses ().

This publication has been superseded by the
Weight measures is given in pound (lb) with the metric equivalent in parentheses ().

4 Correspondence

Aircraft Characteristics Publication (ACP)

The publications change request form is available online and is used to request technical changes to rectify any errors, omissions, or procedural inconsistencies (if applicable), etc. using the Airbus A220 Interactive Electronic Technical Publication (IETP) viewer.

5 Translation of publication

If all or part of this publication is translated, the official version is the English language version by Airbus.

6 Standard term definitions

Maximum design Taxi Weight (MTW)

on the ground. This includes the fuel for these displacements and the takeoff run.

Maximum design Landing Weight (MLW)

Maximum weight for landing as limited by aircraft strength and airworthiness requirement.

Maximum design Take Off Weight (MTOW)

Maximum weight for take off as limited by aircraft strength and airworthiness requirements. This includes weight of fuel for taxi and run-up.

Operational Weight Empty (OWE)

Weight of structure, power plant, furnishings, systems, unusable fuel and other items of equipment that are a necessary part of a particular aircraft configuration. Also included are certain standard items, personnel, equipment and supplies necessary for full operations, but does not include usable fuel or payload.

Maximum design Zero Fuel Weight (MZFW)

Maximum weight permitted before usable fuel and other usable agents must be loaded in defined sections of the aircraft, as limited by strength and airworthiness requirements.

Maximum cargo volume

The maximum space available for cargo.

BD500-A-J00-00-00-20AAA-018A-A



BD500-3AB48-22000-00

**Maximum
seating capacity**

The maximum number of passengers

permitted based on certification requirements.

Usable fuel Fuel available for aircraft propulsion and the Auxiliary Power Unit (APU).

7 Acronyms

The first time an acronym is used it will be defined, and all subsequent uses will be in blue. When you mouse over the acronym the definition will appear. Acronyms are not plural in this publication.

This publication has been superseded by the Aircraft

Characteristics Publication (ACP).

See applicability on the
first page of the DM
BD500-A-J00-00-00-20AAA-018A-A

BD500-A-J00-00-00-20AAA-018A-A
End of data module



BD500-3AB48-22000-00 This publication has been

superseded by the

Aircraft Characteristics Publication (ACP)

Intentionally left blank

See applicability on the first page of the DM

BD500-A-J00-00-00-20AAA-018A-A

BD500-A-J00-00-00-20AAA-018A-

A 2023-09-15 Page

4



BD500-3AB48-22000-00 Aircraft description - Technical data

Applicability: 50001-54999

Table of contents ^{Page}

Aircraft description - Technical data.....	1
References.....	2
Description.....	2 1
Aircraft characteristics.....	2 1.1

Introduction..... 2 **This**

publication has been superseded by the

1.2 Aircraft characteristics.....	2 1.3
System fluid capacities.....	3 1.4
Service fluid capacities.....	4

Aircraft Characteristics Publication (ACP)

2 Aircraft dimensions.....	4 2.1
General aircraft dimensions.....	4 2.2
General aircraft area.....	7 3
clearances.....	7 3.1
clearances.....	7 3.2
clearances for evacuation slides.....	9 4
passenger compartment accommodation.....	11 5
cross-section.....	13 6
compartment.....	17 6.1

nets.....	17	6.2	Volumes – Cargo
compartment.....	17	7	Door clearances and
clear opening dimensions.....	23		7.1
Passenger/Crew.....	23		7.2
Emergency exit.....	23	7.3	Flight
compartment emergency exit.....	23	7.4	Cargo
doors.....	23	7.5	Service
doors.....	24	7.6	Forward
avionics bay door.....	24	7.7	Mid avionics
bay door.....	24	7.8	Aft equipment bay
door.....	24	7.9	Doors
identification.....	24	7.10	Access
and exit doors dimensions.....	26	7.11	Door
distance from nose.....	26	7.12	Door
opening and clearance.....	28		

List of tables Page

1 References.....	2	2	
Aircraft characteristics.....	2	3	Aircraft
characteristics.....	3	4	System fluid
capacities.....	3	5	Service fluid
capacities.....	4	6	General aircraft
area.....	7	7	Ground clearances for
evacuation slides.....	9	8	Cargo compartment
volumes.....	17	9	Access and exit doors
dimensions.....	26		

List of figures Page

1 General aircraft dimensions.....	5	2
Ground clearances.....	8	

A 2023-09-08 Page

See applicability on the first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

1



BD500-3AB48-22000-00

3 Ground clearances for evacuation slides.....	10	4
Layout Of Passenger Accommodation (LOPA).....	12	5
Passenger cross-section (economy class).....	14	6
Passenger cross-section (optional business class).....	15	7
Overhead stowage bins.....	16	8 Aircraft
cargo side view.....	18	9 Cargo
nets.....	21	10 General door
location.....	25	11 Door distance from
nose.....	27	12 Forward passenger door
opening and clearances.....	29	13 Aft passenger door opening
and clearances.....	30	14 Forward cargo compartment door

opening and clearances..... 31 **This publication has been**

superseded by the

15 Aft cargo compartment door opening and clearances.....	32	16
Forward service door opening and clearance.....	33	17 Aft

service door opening and clearances..... 34 **Aircraft**

Table 1 References

Data Module/Technical Publication Title

None

Description

1 Aircraft characteristics

1.1 Introduction

This data module contains general data about the Airbus model BD-500-1A10 (A220-100) characteristics. The structural weight limits, such as maximum ramp weight, and zero fuel weight are dependent on configuration. Refer to each aircraft's specified Weight and Balance Manual (WBM) BD500-3AB48-22100-00 and weight and balance report for structural limits and other weight information.

Refer to Table 2 and Table 3 for the aircraft characteristics.

Refer to Table 4 for the system fluid capacities.

Refer to Table 5 for the service fluid capacities.

1.2 Aircraft characteristics

Applicability: 50001-50061, 50063-50065, 50068, 50070, 50072-50077, 50079-54999

Table 2 Aircraft characteristics

Description	A220-100
Engines	2 Pure Power™ PW1519G ¹
Mode	Passenger

See applicability on the first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page

2



BD500-3AB48-22000-00

Description	A220-100
Standard seating capacity	120
Maximum Ramp Weight (MRW)	141,500 lb (64,183 kg)
Maximum Take-Off Weight (MTOW)	140,500 lb (63,730 kg)
Maximum Landing Weight (MLW)	120,500 lb (54,658 kg)
Maximum Zero Fuel Weight (MZFW)	116,000 lb (52,617 kg)
Minimum Flight Weight (MFW)	77,000 lb (34,927 kg)
Maximum fuel tank capacity	the

	5,756 US gal (21 805 L)
Unusable fuel	220.5 lb (100 kg)
Maximum cargo volume - Overhead bins	280 ft ³ (7,93 m ³)
^e (A ¹ Optional engine models: PW1521G and PW1524G)	

lication

supers^e

Applicability: 50062, 50066-50067, 50069, 50071, 50077-50078, 50081

Table 3 Aircraft characteristics

Description	A220-100
Engines	2 Pure Power™ PW1519G ¹
Mode	Passenger
Maximum Ramp Weight (MRW)	135,000 lb (64,183 kg)
Maximum Take-Off Weight (MTOW)	134,000 lb (60,781 kg)
Maximum Landing Weight (MLW)	112,500 lb (51,029 kg)
Maximum Zero Fuel Weight (MZFW)	108,000 lb (48,987 kg)
Minimum Flight Weight (MFW)	77,000 lb (34,927 kg)
^h (A ¹ Optional engine models: PW1521G and PW1524G)	

A

1.3 System fluid capacities

Table 4 System fluid capacities

Description	Volume	Weight
Engine fluids calculated with 8.24 lb/US gal (0,987 kg/L)		
Engine oil tank at 60 °F	6.5 US gal (24.4 L)	53.1 lb (24.1 kg)
Lines and internal engine oil	7.7 US gal (29.2 L)	63.5 lb (28.8 kg)
APU fluids calculated with 7.98 lb/US gal (0.956 kg/L)		

See applicability on the first page of the DM
BD500-A-J00-00-00-12AAA-030A-A

A 2023-09-08 Page

BD500-A-J00-00-00-12AAA-030A-

3



BD500-3AB48-22000-00

Description	Volume	Weight
APU oil tank	1.94 US gal (7.3 L)	15.4 lb (7.0 kg)
APU lines and internal oil	0.84 US gal (3.2 L)	6.7 lb (3.0 kg)
Hydraulic fluids at 77 °F (25 °C) low density 8.20 lb/US gal (0.983 kg/L)		
System No. 1 reservoir	5.0 US gal (18.8 L)	40.8 lb (18.5 kg)
System No. 2 reservoir	4.33 US gal (16.4 L)	35.50 lb (16.1 kg)
System No. 3 reservoir	4.33 US gal (16.4 L)	35.50 lb (16.1 kg)
Systems and lines	34.6 US gal (131.0 L)	the 283.8 lb (128.7 kg)

ed by

1.4 Service fluid capacities

Table 5 Service fluid capacities

CP)

Description	Volume	Weight
Substitution Potable water at 60 °F (15,5 °C)		
Galley/Lavatory tank level 100%	41.9 US gal (158.8 L)	350.0 lb (158.8 kg)
Substitution Chemical toilet fluid at 60 °F (15,5 °C)		

Waste tank level 100%	be ^e P ³⁸ US gal (143.8 L)	317.1 lb (143.8 kg)
-----------------------	--	---------------------

Aircraft Characteristics

This publication has
2 Aircraft dimensions

2.1 General aircraft dimensions

This section contains general data about the aircraft dimensions.

72 ft 9 in. (22,2 m)

64 ft 5 in. (19,6 m)

111 ft 9 in. (34,1 m)

32 ft 11 in.
(10,0 m)

BD500-3AB48-22000-00

See applicability on the
first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page 16 ft 1.5 in.
(4,9 m)

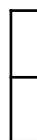
4

8 ft 2 in.

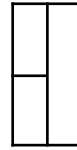
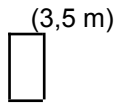


This publication has been superseded by the (2,5 m)

11.5 ft.



Aircraft Characteristics Publication (ACP)



115 ft 1 in. (35,1 m)

40 ft 3 in. (12,3 m)



22 ft 1 in.
(6,7 m)



2 ft 3 in. (0,7 m)

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-A

2023-09-08 Page 5

See applicability on the first page of the DM
ICN-BD500-A-J000000-A-3AB48-22469-A-002-01
Figure 1 General aircraft dimensions - (Sheet 1 of 2)



BD500-3AB48-22000-00 This publication has been

superseded by the

12 ft. 2.5 in. (3,7 m)

Aircraft

Characteristics

114 ft. 9 in. (34,9 m)

11 ft. 7 in. (3,5 m)

Publication (ACP)

38 ft. 8 in. (11,8 m)

43 ft. (13,1 m)

ICN-BD500-A-J000000-A-3AB48-22470-A-003-01
Figure 1 General aircraft dimensions - (Sheet 2 of 2)

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-A

2023-09-08 Page 6

See applicability on the first page of the DM



BD500-3AB48-22000-00 2.2 General aircraft area

Table 6 General aircraft area

Description	A220-100
ESDU wing area (including ailerons, flaps, spoilers and area within the fuselage)	1209 ft ² (112.3 m ²)
Total horizontal stabilizer area (horizontal tail area and elevator area)	395 ft ² (36.6 m ²)
Total vertical stabilizer area (vertical tail area and rudder area)	304 ft ² (28.2 m ²) e

This publication has been superseded by t Aircraft

Characteristics Publication (ACP)- 3 Ground clearances

This section gives the height of various points of the aircraft, above the ground.

Dimensions in the tables are approximate and will vary with tire type, weight and balance and other special conditions.

3.1 Ground clearances

first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page

7

See applicability on the



BD500-3AB48-22000-00 L

A B

D

E

H

~~superseded~~

P M Q
N

(ACP)-

by the

~~publication~~

C

F

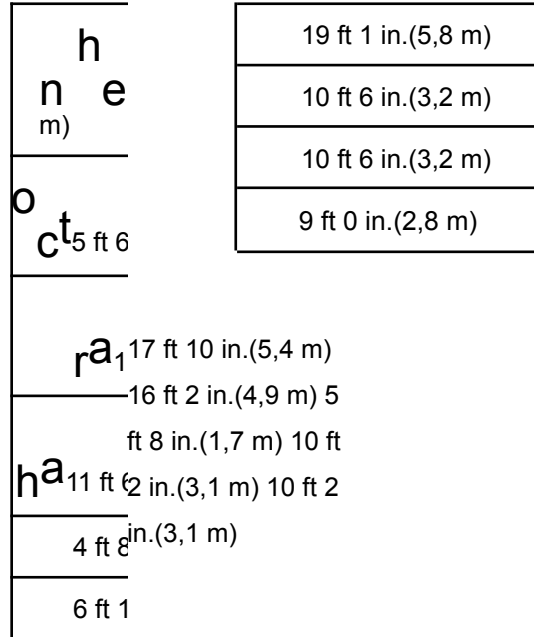
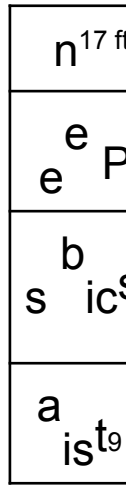
G

J

K

Dimensions

A B C D E



Publication

F
G
H

Aircraft

J
K
L
M
N
P
Q

in.(1,5 m) 6 ft 7
in.(2,0 m) 19 ft 18
in.(6,0 m) 11 ft 2
in.(3,4 m) 11 ft 2
in.(3,4 m) 10 ft 1
in.(3,1 m) 12 ft 7
in.(3,8 m)

11 ft 8 in.(3,6 m)
5 ft 11 in.(1,8 m) 2 ft 0
in.(0,6 m) 11 ft 11
in.(3,5 m) 5 ft 1

NOTES

This

Vertical clearances shown are the greatest possible variations in attitude due to the variation of aircraft weight and center of gravity.

ICN-BD500-A-J000000-A-3AB48-21709-A-001-01

Figure 2 Ground clearances

See applicability on the first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-



BD500-3AB48-22000-00 3.2 Ground clearances for evacuation slides

This section gives ground clearances for evacuation slides. Refer to Table 7 and Fig. 3 .

Table 7 Ground clearances for evacuation slides

Description	Dimensions
Forward Passenger Door (FPD) Slide	240 in. (6096 mm)
Forward Service Door (FSD) Slide	240 in. (6096 mm)
Aft Passenger Door (APD) Slide	200 in. (5080 mm)
Aft Service Door (ASD) Slide	e 200 in. (5080 mm)
Overwing Emergency Exit Door (OWEED) Slides (Left & Right sides)	h by t)- 119 in. (3022.60 mm)

This publication has been supersede Aircraft
 Characteristics Publication (AC^P)

first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page

9

See applicability on the



BD500-3AB48-22000-00

1
 ESCAPE
 SLIDE

is supported by the

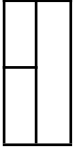
200.00 in.

ESCAPE SLIDE

119.00 in.
 (5080.00 mm)

Aircraft Characteristics Publication (ACP) (3022.60 mm)

240.00 in.
(6096.00 mm)



1

ESCAPE

1

119.00 in.
(3022.60 mm) 200.00 in. (5080.00 mm)

This publication has been

240.00 in.
(6096.00 mm)

1

SLIDE ESCAPE SLIDE

1

NOTE

See applicability on the first page of the DM
Figure 3 Ground clearances for evacuation slides

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-A

2023-09-08 Page 10

1 Emergency evacuation ground area.

ICN-BD500-A-J000000-C-3AB48-52580-A-001-01



BD500-3AB48-22000-00 4 Layout of passenger compartment accommodation

The passenger compartment includes the galley area, lavatory, and passenger seating area.

The galleys and utility areas are isolated from the passenger area by partitions and curtains.
Refer to Fig. 4 .

This publication has been superseded by the

Aircraft Characteristics Publication (ACP)

first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page

11

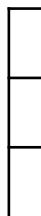
See applicability on the



BD500-3AB48-22000-00 This publication has

been superseded by the

en (ACP).





□
□

□
□
□

□
□
□

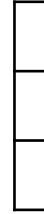
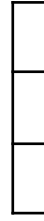
□
□
□

□
□
□

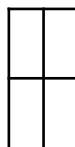
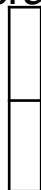
□
□
□

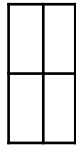
□
t
□

□
□

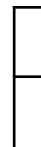


Aircraft Characteristics Public^a









32 in. (81,3 cm)-42 in. (106,7 cm)

(83,8 cm)

14 x 32 in. (81,3 cm) 6 x 33 in.

ICN-BD500-A-J061200-A-3AB48-00007-A-001-01
Figure 4 Layout Of Passenger Accommodation (LOPA)

A 2023-09-08 Page

See applicability on the
first page of the DM

12

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-



BD500-3AB48-22000-00 5 Passenger cross-section

This publication has been superseded by the Aircraft

Characteristics Publication (ACP).

See applicability on the
first page of the DM
BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-



18.5 in.
(0,47 m)
TYPICAL
4 PLACES

129.0 in.
(3,28 m)

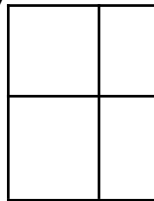
19.0 in.
(0,48 m)

29.4 in.

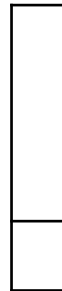
by the
(0,75 m)

istics Publication

(ACP):



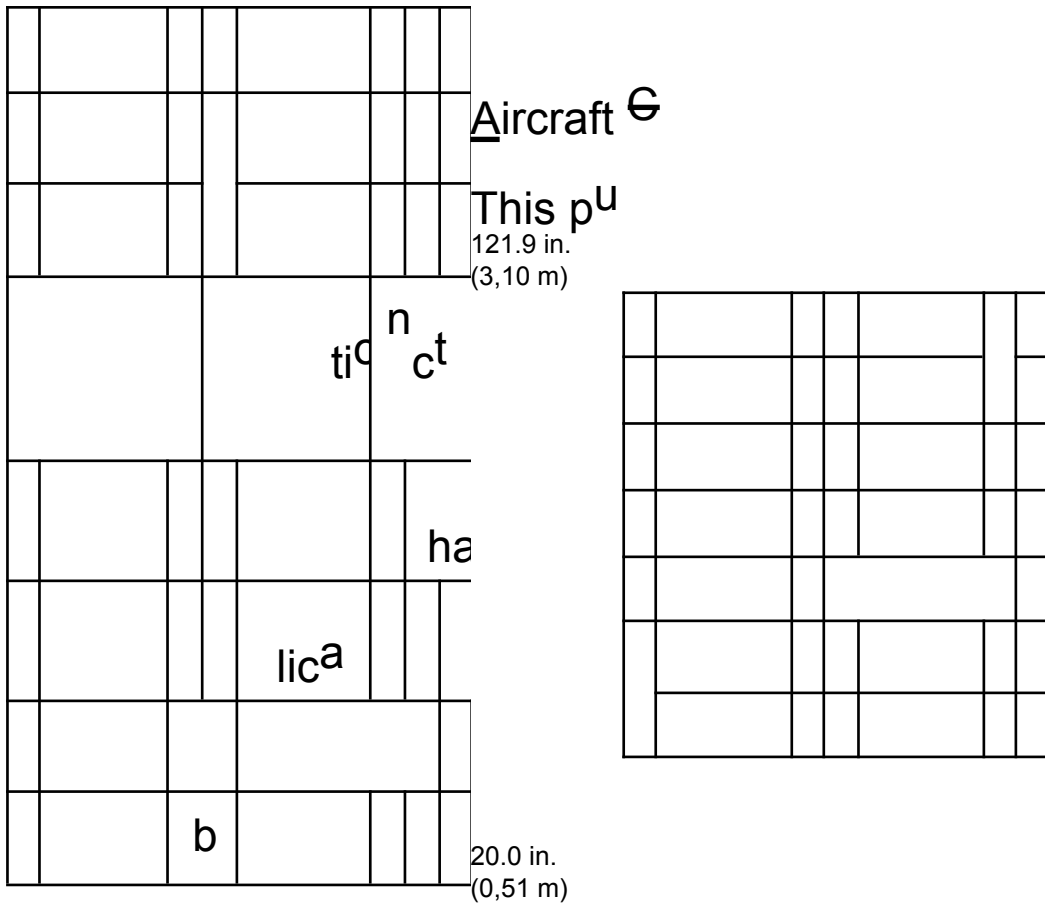
84.0 in. (2,13 m)



59.0 in. (1,50 m)

as been superseded





2023-09-08 Page 14



See applicability on the first page of the DM
ICN-BD500-A-J061200-A-3AB48-00010-A-001-01
Figure 5 Passenger cross-section (economy class)

129.0 in.
(3,28 m)

20.0 in.
(0,51 m)

TYPICAL

BD500-3AB48-22000-00

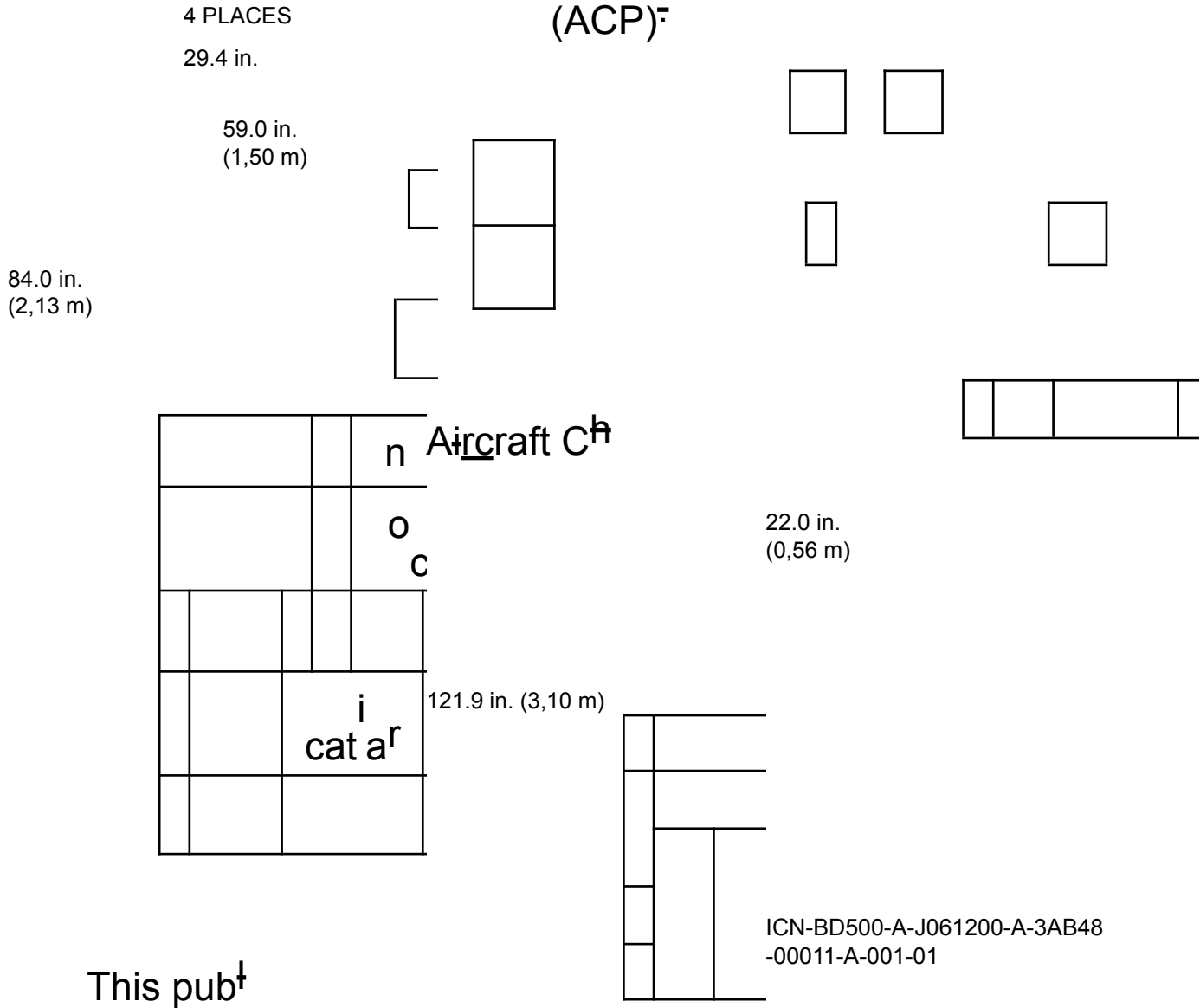
BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-A

has been
superseded by the

(0,75 m)

eristics Publication
(ACP):



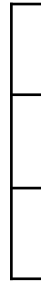
This pub†

See applicability on the first page of the DM
Figure 6 Passenger cross-section (optional business class)

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-A

Aircraft Character



See applicability on the first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

2023-09-08 Page 16



6 Cargo compartment

BD500-3AB48-22000-00

ICN-BD500-A-J061200-A-3AB48-00012-A-001-01

Figure 7 Overhead stowage bins

BD500-A-J00-00-00-12AAA-030A-A

Two under-floor cargo compartments are provided, each with a dedicated outward-opening access door. The forward compartment is positioned between the forward equipment compart

ment and the Environmental Control System (ECS) distribution bay. The aft compartment is positioned between the mid equipment compartment and the water system bay. Refer to Fig. 8 .

Both compartments are furnished with heavy duty floor panels and sidewall linings and are sealed to meet the requirements of a Class C compartment. Decompression and ventilation panels are provided as well. The compartment linings also incorporate provisions for compartment lighting, smoke detector, and fire extinguish.

The combined maximum weight loading of the cargo compartment is 8,290 lb (3 760 kg).

6.1 Cargo door nets

Superseded by the Protective nets are provided at the door area of each cargo compartment to prevent

baggage relocation (ACP).

from fouling the door due to in-flight shifting of the loads. Refer to Fig. 9 .

6.2 Volumes – Cargo compartment

The estimated volume of the cargo compartments is based on geometric volume and accounts for the unusable area in the vicinity of the cargo doors. Table 8 lists the estimated wet volume of the cargo compartments.

Table 8 Cargo compartment volumes

Description	Usable Volume		Maximum load	
	ft ³	m ³	lb	kg
Fwd cargo compartment	311	8.80	3742	1697
Aft cargo compartment	422	11.95	4548	2063

This public^a

Aircraft Cha^f

BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page

17

publication has been

superseded by the

42.33 in. (1.08 m)



192.9 in.
(4.90 m)

Aircraft Characteristics

Publication (ACP)

266.48 in.
(6.77 m)

BD500-A-J00-00-00-12AAA-030A-A



BD500-3AB48-22000-00

A

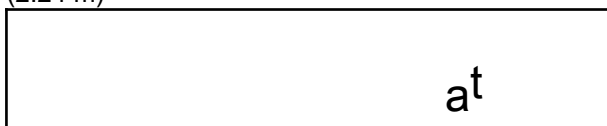
A

s-ubeen superseded by the

Aircraft Characteristics

Publication (ACP)

88.17 in.
(2.24 m)



This publication h

A-A

41.42 in. (1.05 m)

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-A

2023-09-08 Page 19

See applicability on the first page of the DM



A

BD500-3AB48-22000-00

A B

~~publication has been~~

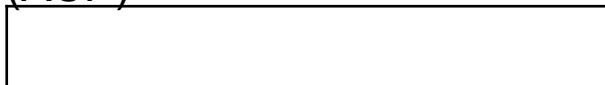
~~superseded by the~~

88.17 in.
(2.24 m)

~~† Characteristics Publication~~

41.42 in. (1.05 m)

~~(ACP):~~



f				
sa				
ihcr				

A-A

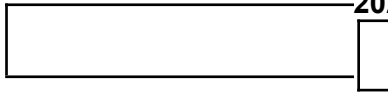
78.22 in.
(2.00 m)

Tir	
A	

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-A

2023-09-08 Page 20

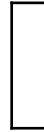


B-B



29.03 in. (0.74 m)

BD500-3AB48-22000-00



See applicability on the first page of the DM
ICN-BD500-A-J084305-A-3AB48-10440-A-001-01

This publication has been superseded by the
Aircraft Characteristics Publication (ACP).



ICN-BD500-A-J502200-C-3AB48-17798-A-001-01

Figure 9 Cargo nets - (Sheet 1 of 2)

See applicability on the
first page of the DM
BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page

21

CARGO
COMPARTME
NT NET

BD500-3AB48-22000-00





BD500-3AB48-22000-00 7 Door clearances and clear

opening dimensions A general description of the doors is as follows:

7.1 Passenger/Crew

Two semi-plug type doors on the left side of the aircraft provide access for passengers and crew. Door 1L is considered the primary entrance while door 2L provides a secondary entrance available for passenger loading/unloading as well as ground servicing.

Each door is classified as a type C floor level exit. Due to the sill height, every door incorporates an emergency evacuation slide system. In addition each one translates outwards from closed position, supported by a hinged arm to rest in open position.

This publication has been superseded by the

Every door is operable from the exterior and interior of the aircraft and features an inspection window to allow verification of the outside conditions from the interior. The exterior operating handle has a linear motion and is interconnected to a vent flap system to provide pressure

Aircraft Characteristics Publication (ACP)-

equalization between the aircraft and the ambient air prior to be opened.

Each door is fully lined and insulated to meet thermal and noise performance requirements.

For Passenger/Crew doors distance from the nose, refer to Fig. 11 Fig. 12 . For aft passenger door opening and clearances, refer to Fig. 13 .

7.2 Emergency exit

The over-wing emergency exits are type III semi-plug type doors.

The exits are provided with an operating handle with removable cover and are fitted with a standard sized passenger compartment window. Each door is fully lined and insulated to meet thermal and noise performance requirements.

The door rotates upwards from the closed position, supported by a hinged arm to rest in open position. The door opening sequence is automatically supported by the energy stored in its own mechanism.

For emergency access to the passenger compartment, the doors may be opened from an exterior handle.

Due to the exit path height from the ground, an off-wing evacuation slide system is provided.

For over-wing emergency exits distance from the nose, refer to Fig. 11 . For doors dimensions, refer to Table 9 .

7.3 Flight compartment emergency exit

The flight compartment is outfitted with a single, inward-opening overhead escape hatch.

7.4 Cargo doors

Access doors are provided to allow cargo compartment loading and unloading.

The semi-plug forward and aft cargo doors are identical components, each hinged along the top edge of its frame.

Each door incorporates an exterior lock/unlock handle with linear motion that is interconnected to a vent flap system and provide pressure equalization between the aircraft and the ambient air prior to be opened.

An electrical actuation system with a switch panel, installed on the fuselage near each door, is provided to open and close the door.

See applicability on the first page of the DM
BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-



BD500-3AB48-22000-00 Each door is fully lined and insulated to meet thermal and noise performance requirements.

For cargo doors distance from the nose, refer to Fig. 11 . For doors dimensions, refer to Table 9 . For forward cargo door opening and clearances, refer to Fig. 14 . For aft cargo door opening and clearances, refer to Fig. 15 .

7.5 Service doors

Two semi-plug type doors are provided on the right side of the aircraft to provide access for the forward (door 1R) and aft (door 2R) galley service areas.

Each door is classified as a type C floor level exit. Due to the sill height, each door incorporates an emergency evacuation slide system.

This publication has been superseded by the

Each door translates outwards from the closed position, supported by a hinged arm and stabilizing system, to rest parallel to the fuselage in the open position.

Each door is operable from the exterior and interior of the aircraft and features an

inspection **Aircraft Characteristics Publication (ACP)**

window to allow verification of the outside conditions from the interior. The exterior operating handle has a linear motion and is interconnected to a vent flap system to provide pressure equalization between the aircraft and the ambient air prior to be opened.

Each door is fully lined and insulated to meet thermal and noise performance requirements.

For service doors distance from the nose, refer to Fig. 11 . For service doors dimensions, refer to Table 9 . For forward service door opening and clearances, refer to Fig. 16 . For aft service door opening and clearances, refer to Fig. 17 .

7.6 Forward avionics bay door

A plug-type door is provided in the forward fuselage to gain access to the pressurized forward equipment compartment. The door is fitted with a stowable operating handle.

For forward equipment compartment door distance from the nose, refer to Fig. 11 . For dimensions, refer to Table 9 .

7.7 Mid avionics bay door

A plug-type door is provided in the mid fuselage to gain access to the pressurized mid equipment compartment. The door is fitted with a stowable operating handle.

For mid equipment compartment door distance from the nose, refer to Fig. 11 . For dimensions, refer to Table 9 .

7.8 Aft equipment bay door

A door is provided in the aft fuselage to gain access to the unpressurized aft equipment compartment.

For aft equipment compartment door distance from the nose, refer to Fig. 11 . For dimensions, refer to Table 9 .

7.9 Doors identification

This section shows a general overview of the doors

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page

24

See applicability on the first page of the DM



FORWARD PASSENGER DOOR

OVERWING EMERGENCY EXIT
DOOR

AFT PASSENGER
DOOR

BD500-3AB48-22000-00

This publication has been

superseded by the

Aircraft Characteristics

Publication (ACP). OVERWING

FORWARD

AFT SERVICE
DOOR

EMERGENCY
EXIT DOOR

COMPARTMENT CARGO
DOOR
SERVICE DOOR

AFT COMPARTMENT
CARGO DOOR

FORWARD

first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

ICN-BD500-A-J000000-A-3AB48-23216-A-001-01

Figure 10 General door location

BD500-A-J00-00-00-12AAA-030A-A

2023-09-08 Page 25

See applicability on the



BD500-3AB48-22000-00 7.10 Access and exit doors

dimensions

Table 9 Access and exit doors dimensions

Door	Height	Width
Main entrance door - Type C exit (door 1L)	6 ft 3 in. (1,9 m)	2 ft 6 in. (0,8 m)
Service door - Type C exit (door 1R)	5 ft 0 in. (1,5 m)	2 ft 6 in. (0,8 m)
Aft entrance door - Type C exit (door 2L)	6 ft 0 in. (1,8 m)	2 ft 6 in. (0,8 m)
Service door - Type C exit (door 2R)	5 ft 0 in. (1,5 m)	2 ft 6 in. (0,8 m)
Forward avionics bay door	2 ft 8 in. (0,81 m)	h e 3 ft 8 in. (1,1 m)
Mid avionics bay door	2 ft 8 in. (0,81 m)	t y) 3 ft 8 in. (1,1 m)

Aft equipment bay door	3 ft 6 in. (1,08 m)	1 ft 11 in. (0,6 m)
Forward cargo compartment door	2 ft 8 in. (0,81 m)	3 ft 8 in. (1,1 m)
Aft cargo compartment door	2 ft 8 in. (0,81 m)	3 ft 8 in. (1,1 m)
Over-wing emergency exit	3 ft 6 in. (1,08 m)	1 ft 11 in. (0,59 m)
Flight compartment emergency exit	22 in. (0,559 m)	20 in. (0,508 m)

This publication has been published in Aircraft Characteristics Part 7.11 Door distance from nose

first page of the DM
 BD500-A-J00-00-00-12AAA-030A-A
BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page

26



A
B

C

F

H

J

L

BD500-3AB48-22000-00

See applicability on the

This publication has been superseded by the Aircraft

Characteristics Publication (ACP)

D
E
G
K

Dimensions A220-100

A	L
B	
C	NOTE
D	102 ft 4 in. (31.2 m) 93 ft 10 in. (28.6
E	m) 84 ft 4 in. (25.7 m) 69 ft 4 in. (21.1
F	m) 58 ft 0 in. (17.7 m) 43 ft 0 in.
G	(13.11 m) 21 ft 4 in. (6.5 m) 15 ft 10
H	in. (4.8 m) 15 ft 0 in. (4.6 m) 14 ft 3
J	in. (4.3 m) 9 ft 2 in. (2.8 m)
K	

The values shown are the greatest possible variations in attitude due to the variation of aircraft weight and gravity.

ICN-BD500-A-J000000-A-3AB48-21712-A-003-01

Figure 11 Door distance from nose

BD500-A-J00-00-00-12AAA-030A-



BD500-3AB48-22000-00 7.12 Door opening and clearance

This publication has been superseded by the Aircraft

Characteristics Publication (ACP).

See applicability on the first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page

28



BD500-3AB48-22000-00 This publication has been

superseded by the

Aircraft Characteristics Publication (ACP).

31.90 in. (81,03 cm)

MINIMUM

24.39 in.
(61,95 cm)
MINIMUM

73.85 in. (178,58 cm)
MINIMUM

VIEW LOOKING DOWN

ICN-BD500-A-J061100-A-3AB48-00103-A-003-01

Figure 12 Forward passenger door opening and clearances

See applicability on the
first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

A 2023-09-08 Page

29

superseded by the

Aircraft Characteristics
Publication (ACP)

23.88 in. (60,65 cm) MINIMUM



30.78 in. (78,18 cm)
MINIMUM



73.85 in. (187,58 cm)

BD500-3AB48-22000-00 This

publication has been

MINIMUM

VIEW LOOKING DOWN

ICN-BD500-A-J061100-A-3AB48-00104-A-003-01
Figure 13 Aft passenger door opening and clearances

See applicability on the
first page of the DM
BD500-A-J00-00-00-12AAA-030A-A
BD500-A-J00-00-00-12AAA-030A-



BD500-3AB48-22000-00 This publication has been

superseded by the

Aircraft Characteristics Publication (ACP)

57.81 in. (146,84 cm)
MINIMUM



33 in. (83,82 cm)
MINIMUM

VIEW LOOKING
FORWARD

ICN-BD500-A-J061100-A-3AB48-00102-A-002-01

Figure 14 Forward cargo compartment door opening and clearances

BD500-A-J00-00-00-12AAA-030A-

See applicability on the
first page of the DM
BD500-A-J00-00-00-12AAA-030A-A



BD500-3AB48-22000-00

A

This publication has been  perseded by the Aircraft

Characteristics Publication (ACP) -

57.81 in. (146,84 cm)
MINIMUM



33 in. (83,82 cm)
MINIMUM

VIEW LOOKING
FORWARD

A

ICN-BD500-A-J061100-A-3AB48-00101-A-002-01

Figure 15 Aft cargo compartment door opening and clearances

A 2023-09-08 Page

See applicability on the
first page of the DM

32

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-



BD500-3AB48-22000-00 This publication has been

superseded by the

Aircraft Characteristics Publication (ACP)
30.70 in. (77,98 cm)
MINIMUM

23.12 in.
(58,72 cm)
MINIMUM

24.92 in.
(63,30 cm)
MINIMUM

72.71 in. (184,68 cm)
MINIMUM

VIEW LOOKING DOWN

ICN-BD500-A-J061100-A-3AB48-00106-A-002-01

Figure 16 Forward service door opening and clearance

A 2023-09-08 Page

See applicability on the
first page of the DM

BD500-A-J00-00-00-12AAA-030A-A

BD500-A-J00-00-00-12AAA-030A-

33



BD500-3AB48-22000-00 This publication has been

superseded by the

Aircraft Characteristics Publication (ACP)

30.77 in. (78,16 cm)
MINIMUM

VIEW LOOKING DOWN

23.85 in. (60,59 cm)
MINIMUM

74.63 in. (189,57 cm)
MINIMUM

BD500-A-J00-00-00-12AAA-030A-A
End of data module

See applicability on the first page of the DM
 BD500-A-J00-00-00-12AAA-030A-A

2023-09-08 Page 34



**BD500-3AB48-22000-00 Aircraft performance -
 Technical data**

Applicability: 50001-54999

Table of contents Page

Aircraft performance - Technical data.....	1	
References.....	1	
Description.....	1	1
Introduction.....	1	2
 Payload/Range.....	 2	 This
 <u>publication has been superseded by the</u>		
3 Takeoff field length requirements.....	4	4
Landing field length requirements.....	11	5 Landing
 reference speed.....	 13	 Aircraft

Characteristics Publication (ACP)

List of tables Page

1 References.....	1	2
Standard day temperature chart.....	2	

List of figures Page

1 Zero Fuel Weight (ZFW) vs Range ISA.....	3	2
2 Takeoff field length - ISA - PW1519G.....	5	3
3 Takeoff field length ISA +15°C - PW1519G.....	6	4
4 Takeoff field length ISA - PW1521G.....	7	5
5 Takeoff field length ISA +15°C - PW1521G.....	8	6
6 Takeoff field length ISA - PW1524G.....	9	7
7 Takeoff field length ISA +15°C - PW1524G.....	10	8
8 Landing field length - Dry runway.....	12	9
9 Landing reference speed.....	14	

References

Table 1 References

Data Module/Technical Publication Title

None

Description

1 Introduction

This data module gives data about:

- Payload/Range
- Takeoff field length requirements
- Landing field length requirements
- Landing reference speed

The table below provides standard day temperature for pressure altitudes.

A 2015-09-01 Page

See applicability on the first page of the DM

1

BD500-A-J00-00-00-13AAA-030A-A

BD500-A-J00-00-00-13AAA-030A-



Table 2 Standard day temperature chart

BD500-3AB48-22000-00

Altitude		Standard day temperature	
Feet (ft.)	Meters (m)	°F	°C
0	0	59	15
2000	610	51.9	11
4000	1220	44.7	7.1
6000	1830	37.6	3.1
8000	2440	30.5	he -0.8
10000	3050	23.3	y) ^t -4.8

This publication has been superseded ^b Aircraft

Characteristics Publication (ACP)

2 Payload/Range

This section gives information about the payload/range at ISA conditions.

See applicability on the



BD500-3AB48-22000-00

0
0
5
4

0
5
2
4

0
0
4

0
5
7
3

This publication has been superseded by the

0
5
3

0

Aircraft Characteristics Publication (ACP)-

5
2
3



BD500-3AB48-22000-00 3 Takeoff field length

requirements

For more information about aircraft performance, refer to the Aircraft Flight Manual (AFM) BD500-3AB48-22200-00.

For aircraft performance and field length requirements refer to:

- Fig. 2 for the takeoff field length ISA - PW1519G.
- Fig. 3 for the takeoff field length ISA +15°C - PW1519G.
- Fig. 4 for the takeoff field length ISA - PW1521G.
- Fig. 5 for the takeoff field length ISA +15°C - PW1521G.
- Fig. 6 for the takeoff field length ISA - PW1524G.

This publication has been superseded by the

- Fig. 7 for the takeoff field length ISA +15°C - PW1524G.

Aircraft Characteristics Publication (ACP)-

first page of the DM

BD500-A-J00-00-00-13AAA-030A-A

BD500-A-J00-00-00-13AAA-030A-

A 2015-09-01 Page

4

See applicability on the



**BD500-3AB48-220
00-00**

This publication has been
superseded by the

Aircraft Characteristics
Publication (ACP)-

This publication has been superseded by the

Aircraft Characteristics Publication (ACP)

0
001042
)tf 1000 (ht gn Le dl ei F ff
o ke aT
1

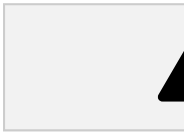
ICN-BD500-A-J000000-A-3
AB48-01754-A-002-01

BD500-A-J00-00-00-13AAA-030A-A

2015-09-01 Page 6

See applicability on the first page of the DM
Figure 3 Takeoff field length ISA +15°C - PW1519G

BD500-A-J00-00-00-13AAA-030A-A



0

0
4
1

00
0

000

0
BD500-3AB4
8-22000-00

0
0
7

0
0
0

8
00
5
00
4
00
3
00
7
00

1
0
1

This publication has been
superseded by the

Aircraft Characteristics
Publication (ACP)

0
4
3
1

0
0
0
0

5
2
1

0
0
0
0
1

1
*
b
l
0
0
2
0
1
1
1
1
1
1
h
B
1
*
W
F
1
S
0
*
1
k
1
*
T

0
1
1

1
1
*
1
*
d
u
t
i
l
i
t
y
A
*
r
u
x
*
*
r
P
y
b
*

5
0
1
0
0
1
5
9

21

aT

-29045-A-001-01
Figure 4 Takeoff field length ISA
- PW1521G

11

0
9876543

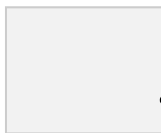
)tf 1000 (ht gn Le dl ei F ff o ke ICN-BD500-A-J000000-A-3AB48

A 2015-09-01 Page

See applicability on the
first page of the DM
BD500-A-J00-00-00-13AAA-030A-A

7

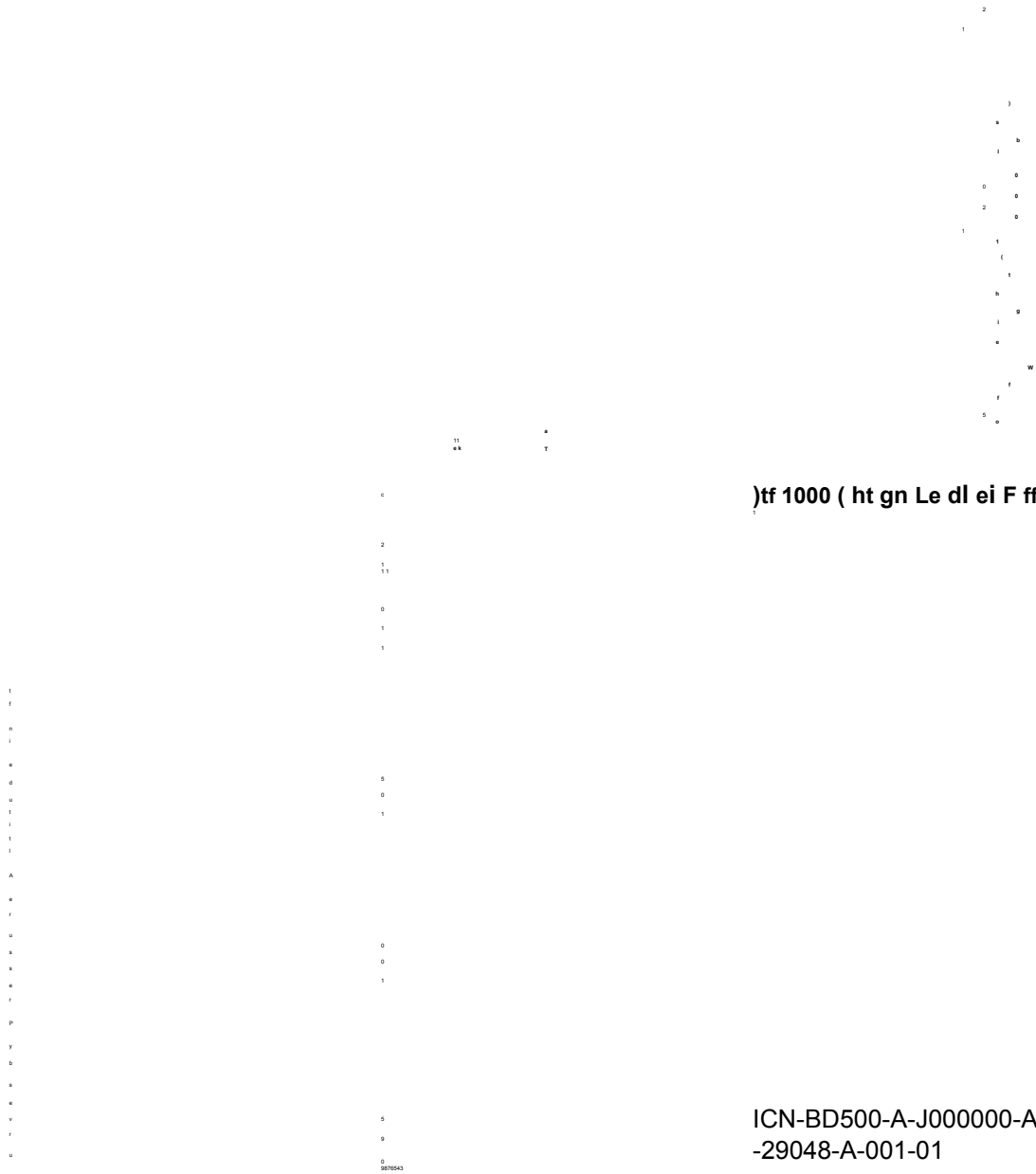
BD500-A-J00-00-00-13AAA-030A-



**BD500-3AB
48-22000-0
0**

This publication has been superseded by the

Aircraft Characteristics Publication (ACP)-



At takeoff height 1000 ft

ICN-BD500-A-J000000-A-3AB48
-29048-A-001-01

BD500-A-J00-00-00-13AAA-030A-A

2015-09-01 Page 10

See applicability on the first page of the DM
Figure 7 Takeoff field length ISA +15°C - PW1524G

BD500-A-J00-00-00-13AAA-030A-A



BD500-3AB48-22000-00 4 Landing field length

requirements

For more information about landing field, refer to the AFM BD500-3AB48-22200-00. For landing field length requirements refer to Fig. 8 .

0
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Landing Field Length (1000 ft)

BD500-A-J00-00-00-13AAA-030A-A

See applicability on the first page of the DM
ICN-BD500-A-J000000-A-3AB48-01757-A-002-01
Figure 8 Landing field length - Dry runway

BD500-A-J00-00-00-13AAA-030A-A

2015-09-01 Page 12



BD500-3AB48-22000-00 5 Landing reference speed

This section gives information about the landing reference speed.

This publication has been superseded by the Aircraft

Characteristics Publication (ACP)-

See applicability on the
first page of the DM
BD500-A-J00-00-00-13AAA-030A-A

A 2015-09-01 Page

BD500-A-J00-00-00-13AAA-030A-

13



BD500-3AB48-22000-00



BD500-3AB48-22000-00 Ground maneuvering - Technical data

Applicability: 50001-54999

Table of contents Page

Ground maneuvering - Technical data.....	1	
References.....	1	
Description.....	1	1
Turning radii.....	1	1.1
Introduction.....	1	This

publication has been superseded by the

1.2 Landing gear turning radii, including minimum turning radii..... 2 **List of tables**

Page **Aircraft Characteristics Publication (ACP)**

1 References.....	1	2
A220-100 turning radii for various nose wheel angles.....	3	

List of figures Page

1 Turn radii.....	5	2
Visibility from cockpit in static position.....	7	3
Clear areas of vision.....	9	4
A220 Clear areas of vision.....	10	5
More than 90° turn - Runway to taxiway - Cockpit over centerline method.....	12	6
More than 90° turn - Runway to taxiway - Oversteering method.....	14	7
90° turn - Runway to taxiway - Cockpit over centerline method.....	16	8
90° turn - Runway to taxiway - Oversteering method.....	18	9
More than 90° turn - Taxiway to taxiway - Cockpit over centerline method.....	20	10
More than 90° turn - Taxiway to taxiway - Oversteering method.....	22	11
90° turn - Taxiway to taxiway - Cockpit over centerline method.....	24	12
90° turn - Taxiway to taxiway - Oversteering method.....	26	13
Runway holding bay (Apron).....	28	14
Techniques when using a Hammerhead Turnaround.....	30	15
Techniques when using a Hammerhead Turnaround.....	31	16
180 Degree (Pivot) Turns in Less than 147.6 feet / 45 m.....	33	

References

Table 1 References

Data Module/Technical Publication Title

None

Description

1 Turning radii

1.1 Introduction

This data module contains data about the aircraft turning capability and maneuvering characteristics on the ground. The data is based on aircraft performance in good conditions of operation.

A 2019-10-22 Page

See applicability on the
first page of the DM
BD500-A-J00-00-00-19AAA-030A-A

1

BD500-A-J00-00-00-19AAA-030A-



BD500-3AB48-22000-00

Thus, the values must be considered theoretical and used only as an aid. Refer to Table 2 for the values to use with Fig. 1 for the turn radii with 3 degree slip angle.

1.2 Landing gear turning radii, including minimum turning radii

publication has been superseded by the

Aircraft Characteristics Publication (ACP)

See applicability on the



BD500-3AB48-22000-00 Table 2 A220-100 turning radii for

various nose wheel angles

Turning angle (in degrees) with 3 degree tire slip	Turning center to aircraft center line (D)	Nose tip (R1)	Nose gear outside face (R2)	Mai
17	1686.8 in. (42844.72 mm)	1807.5 in. (45910.50 mm)	1776.3 in. (45118.02 mm)	
27	1012.1 in. (25707.34 mm)	1202.7 in. (30548.58 mm)	1148.4 in. (29169.36 mm)	
37	684.4 in. (17383.76 mm)	943.6 in. (23967.44 mm)	869.3 in. (22080.22 mm)	
47	480.9 in. (12214.86 mm)	808.3 in. (20530.82 mm)	717.6 in. (18227.04 mm)	
57	334.9 in. (8506.46 mm)	730.9 in. (18564.86 mm)	627.9 in. (15948.66 mm)	SU
67	218.9 in. (5560.06 mm)	685.5 in. (17411.70 mm)	572.7 in. (14546.58 mm)	be
77	119.1 in. (3025.14 mm)	660.4 in. (16774.16 mm)	has ^{541.7 in.} (13759.18 mm)	ris

See applicability on the
first page of the DM
BD500-A-J00-00-00-19AAA-030A-A
BD500-A-J00-00-00-19AAA-030A-A 2019-10-22 Page 3



This publication has been superseded by the

Aircraft Characteristics Publication (ACP)

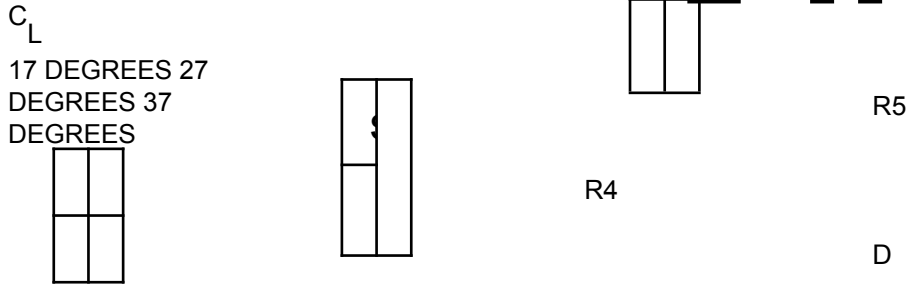
Intentionally left blank

See applicability on the
first page of the DM
BD500-A-J00-00-00-19AAA-030A-A
BD500-3AB48-22000-00



BD500-3AB48-22000-00 superseded by the

Aircraft Characteristics Publication (ACP)



This publication has been

47 DEGREES
57 DEGREES
67 DEGREES

77 DEGREES
THEORETICAL
R1

MAXIMUM

R2
R3

TURNING
CENTER

AIRPORT
PLANNING
ALLOWANCE

5.0 ft (1,52 m)

first page of the DM
BD500-A-J00-00-00-19AAA-030A-A
ICN-BD500-A-J092001-A-3AB48-00068-A-001-01
Figure 1 Turn radii

BD500-A-J00-00-00-19AAA-030A-A

2019-10-22 Page 5

See applicability on the



BD500-3AB48-22000-00 2 Visibility from cockpit in

static position

This section contains data about the visibility from cockpit in static position. To see the diagram, refer to Fig. 2 .

This publication has been superseded by the Aircraft

Characteristics Publication (ACP)

See applicability on the
first page of the DM

BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-

A 2019-10-22 Page

6



25°

17°

13 ft 3 in
(4 m.)
DOWN VISION

8 ft 6 in

(2,6 m.)

BD500-3AB48-22000-00



This publication has been ~~sup~~erseded by the

43 ft 3 in (13,1 m.)

(0,8 m.)

2 ft 8 in

Aircraft Characteristics Publication (ACP)

VISUAL ANGLES IN VERTICAL PLANE THROUGH PILOT'S EYE POSITION

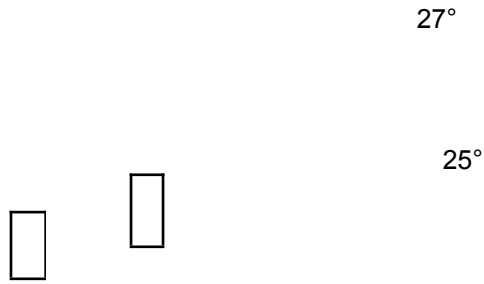
106°

20 in.
(0,5 m)

123°

VISUAL ANGLES IN HORIZONTAL PLANE THROUGH PILOT'S EYE POSITION

20 in.
(0,5 m)



NOTES
VISUAL ANGLE IN A PLANE
PERPEDNDICULAR TO LONGITUDINAL
AXIS THROUGH PILOT'S EYE POSITION

Figure 2 Visibility from cockpit in static position

1. Not to be used for landing approach visibility. 2. Not scale.

BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-A

2019-10-22 Page 7

ICN-BD500-A-J000000-A-3AB48-22579-A-001
 -01

See applicability on the first page of the DM



BD500-3AB48-22000-00

2.1 Clear areas of vision

To see the diagram, refer to Fig. 3 and Fig. 4 .

This publication has been superseded by the Aircraft

Characteristics Publication (ACP).

See applicability on the first page of the DM

BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-

A 2019-10-22 Page

ist

This publication has

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

LEFT RIGHT
AZIMUTH ANGLE - DEGREES

ICN-BD500-A-J092001-A-3AB48-00119-A-001-01

Figure 3 Clear areas of vision

A 2019-10-22 Page

See applicability on the
first page of the DM

BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-

9



BD500-3AB48-22000-00

the

tion has been superseded by characteristics Publication
(ACP).

Aircraft Char^a

This public^a

ICN-BD500-A-J000000-A-3AB48-45615-A-001-01

Figure 4 A220 Clear areas of vision

A 2019-10-22 Page

See applicability on the
first page of the DM

10

BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-



BD500-3AB48-22000-00 3 Runways and taxiways turn

paths

This section contains data about the runways and taxiways turn paths.

3.1 More than 90° turn - Runway to taxiway - Cockpit over centerline method To

see the diagram, refer to Fig. 5 .

This publication has been superseded by the Aircraft

Characteristics Publication (ACP)

See applicability on the
first page of the DM
BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-

A 2019-10-22 Page

11



BD500-3AB48-22000-00

RUNWAY
CENTERLINE

This publication has been superseded by the
TURN
R = 100 ft.(30 m)

Aircraft Characteristics Publication (ACP)
FAA LEAD-IN FILLET
L = 150 ft.(45 m)

APPROXIMATE
26 ft. (8 m)

FILLET
R =55 ft. (16.5 m)

TAXIWAY
CENTERLINE

50 ft
(15 m)

100 ft.
(30 m)

LEGEND

Nose gear.
Main gear.

NOTE

Coordinate with airline operator for the specific planned operating procedure.

See applicability on the first page of the DM

12

BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-



BD500-3AB48-22000-00

3.2 More than 90° turn - Runway to taxiway - Oversteering method To see the diagram, refer to Fig. 6 .

This publication has been superseded by the

Aircraft Characteristics Publication (ACP)

first page of the DM

BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-

A 2019-10-22 Page

13

See applicability on the



BD500-3AB48-22000-00

RUNWAY
CENTERLINE

TURN
R = 100 ft. (30 m)

This publication has been superseded by the Aircraft

Characteristics Publication (ACP)

FAA LEAD-IN FILLET
L = 150 ft. (45 m)

APPROXIMATE
10 ft. (3.2 m)

FILLET
R = 55 ft. (16.5 m)

TAXIWAY
CENTERLINE

50 ft.
(15 m)

100 ft.
(30 m)

LEGEND

Nose gear.
Main gear.

NOTE

Coordinate with airline operator for the specific planned operating procedure.

ICN-BD500-A-J000000-A-3AB48-22553-A-001-01
Figure 6 More than 90° turn - Runway to taxiway - Oversteering method

A 2019-10-22 Page

See applicability on the
first page of the DM

14

BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-



BD500-3AB48-22000-00

3.3 90° turn - Runway to taxiway - Cockpit over centerline method To see
the diagram, refer to Fig. 7 .

This publication has been superseded by the

Aircraft Characteristics Publication (ACP)

first page of the DM

BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-

A 2019-10-22 Page

15

See applicability on the



BD500-3AB48-22000-00

RUNWAY
CENTERLINE

FAA LEAD-IN FILLET

TURN

Aircraft Characteristics

This publication has been ~~Publication (ACP)~~

~~superseded~~ by the

R = 100 ft. (30 m)

Main gear.

L = 150 ft. (45 m) 50 ft. (15 m)

NOTE

TAXIWAY
CENTERLINE

APPROXIMATE
26 ft. (8.0 m)

FILLET
R = 55 ft. (16.5 m)

LEGEND

Nose gear.

100 ft.
(30 m)

Coordinate with airline operator for the specific planned operating procedure.

ICN-BD500-A-J000000-A-3AB48-22065-A-001-01

Figure 7 90° turn - Runway to taxiway - Cockpit over centerline method

See applicability on the
first page of the DM

BD500-A-J00-00-00-19AAA-030A-A

BD500-A-J00-00-00-19AAA-030A-

A 2019-10-22 Page

16