

dent & buckle

Maintenance Control

Damage and Repair Inquiries

The following pages contain the procedures for logging into the Dent and Buckle software, reviewing current dents and repairs on aircraft, and creating and printing reports for selected aircraft and damages

Log in to the Dent and Buckle website at the following address:

<https://cam-abx.dentandbuckle.com>

The screen below should appear for entry of your user name and password

User name **abxmc**

Password **abxmc**

The screenshot shows a web browser window with the following elements:

- Browser address bar: <https://cam-abx-login.dentandbuckle.com/core/login?signin=de2f9eafe5a006863472>
- Page title: dent & buckle
- Input fields:
 - Username field: contains the character 'l'
 - Password field: labeled 'Password'
- Checkbox: Remember my login
- Buttons:
 - LOGIN (blue button)
 - Reset password (light blue button)

Once you have logged into the site, the following screen will appear:

dent & buckle DASHBOARD DISCREPANCIES REPORTS MENU **User: Robert Davis**

Dashboard - Fleet Action Summary Select Registration: All registrations GO TO AIRCRAFT

Filter by: ALL TYPES Prev. Days: 180 Text search: Enter phrase... FILTER CLEAR FILTERS

20 items per page Go to page: 1 GO PREV. 1 2 3 4 5 6 7 8 ... 18 NEXT

Action	Damage	Ref no.	Description	Type	Aircraft	Date	User	Status	Cat.
Damage	Dent	389	RW IB Aft Flap dent WS 434.2	Not submitted	N219CY	09/22/2016	64642	Active	A
Damage	Dent	230	#1 Eng Exhaust Nozzle Dent NAC 344 5 o'clock	Incomplete	N749AX	09/22/2016	64642	Active	A
Damage	Dent	135	#3 Slat TE dent at OSS 827.15	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	136	#3 Slat TE dent at OSS 826.15	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	137	#3 Slat TE dent at OSS 804.55	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	138	#3 Slat TE dent at OSS 803.55	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	139	#3 Slat TE dent at OSS 786.55	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	140	#3 Slat dent at OSS 780.45	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	141	#3 Slat TE dent at OSS 753.25	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	142	#3 Slat TE dent at OSS 751.65	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	143	#3 Slat TE dent at OSS 744.55	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	144	#3 Slat TE dent at OSS 742.25	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	145	#3 Slat TE dent at OSS738.25	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	146	#3 Slat TE dent at OSS 733.15	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	147	#3 Slat TE dent at OSS 717.05	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	148	#3 Slat TE dent at OSS 714.75	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	149	#3 Slat TE dent at OSS 702.15	Not submitted	N362CM	09/21/2016	64642	Active	A
Damage	Dent	118	#2 Slat TE dent at OSS 921.44	Not submitted	N362CM	09/20/2016	64642	Active	A

- In the “Select Registration” field at the top of the screen, select the “All Registrations” drop down menu and select the aircraft that you wish to view or enter discrepancies for.

dent & buckle

DASHBOARD DISCREPANCIES REPORTS MENU User: Robert Davis

Dashboard - Fleet Action Summary Select Registration: N744AX GO TO AIRCRAFT

Filter by ALL TYPES Prev. Days 180 Text search Enter phrase... FILTER CLEAR FILTERS

No activity in the selected time period or no discrepancies of selected type.

Version: 1.2 newAuth
Build: 1.2.6109.23671 / 2016-09-22 13:09:02

- Once the aircraft you have selected appears, click on the "GO TO AIRCRAFT" button and the discrepancy listing for the aircraft will appear.

dent & buckle DASHBOARD DISCREPANCIES REPORTS MENU User: Robert Davis

Discrepancies for N744AX AND

All N744AX Search

No.	Type	Description	Location	Date	Att.
1	Damage	ABX No: 1 - Damage to Location RFS	STAL1540 + 0.00inch STRG22R + 1.00inch	07/13/2006	-
2	Damage	ABX No: 2 - Damage to Location RFS	STAL1540 + 0.00inch STRG22R + 1.00inch	07/13/2006	-
3	Damage	ABX No: 3 - Damage to Location LFS	STA266.5 + 0.00inch STRG20L - 1.00inch	07/13/2006	-
4	Damage	ABX No: 4 - Damage to Location LH	STA390 + 11.00inch STRG21L + 1.00inch	07/13/2006	-
6	Damage	FS 522 S31R-S32R skin dent	500 + 22.01inch STRG31 RH + 2.17inch	09/06/2006	2
8	Damage	ABX No: 8 - Damage to Location LFS	STA456 + 0.00inch + inch	10/27/2009	1
11	Damage	FS 1540 S22L skin dent	STAL1540 + 0.00inch STRG22L + 1.00inch	11/02/2009	3
12	Damage	FS 1538 S22L skin dent	1510.5 + 27.87inch STRG22 LH + 2.32inch	11/02/2009	3
15	Damage	ABX No: 15 - Damage to Location RFS	STAL1370 + 0.00inch STRG30R + 1.00inch	11/04/2009	2
16	Damage	ABX No: 16 - Damage to Location RFS	STAL1366 + 0.00inch STRG28R + 1.00inch	11/04/2009	2
17	Damage	FS 636 S28R-S29R skin dent	632 + 4.37inch STRG28 RH + 2.48inch	11/04/2009	3
18	Damage	FS 635 S31R-S32R skin dent	632 + 2.80inch STRG31 RH + 6.89inch	11/04/2009	3
19	Damage	FS 641 S30R S31R	632 + 18.98inch STRG30 RH + 5.35inch	11/04/2009	3
20	Damage	FS 643 S31R skin dent	632 + 11.61inch STRG31 RH + 1.34inch	11/04/2009	3
21	Damage	ABX No: 21 - Damage to Location RFS	STA657 + 0.00inch STRG21R + 1.00inch	11/07/2009	2
22	Damage	ABX No: 22 - Damage to FLAP ASSY RH INBD TE MAL... Not submitted	Outer Flap RH	11/04/2009	2
24	Damage	ABX No: 24 - Damage to Location RTW Not submitted	Wing RH	11/04/2009	2
25	Damage	ABX No: 25 - Damage to FLAP ASSY RH OTBD TE Loc... Not submitted	Outer Flap RH	11/04/2009	2
26	Damage	ABX No: 26 - Damage to FLAP ASSY INBOARD 1t AF L... Not submitted	Outer Flap RH	11/04/2009	2
31	Damage	FS 505 S20L-S27R skin dent	500 + 4.76inch STRG26 RH + 3.50inch	05/23/2011	2
35	Damage	ABX No: 35 - Damage to Location LFS Not submitted	STAL1465 + 0.00inch STRG38L + 1.00inch	10/06/2011	1
36	Damage	ABX No: 36 - Damage to Location LFS Not submitted	STAL029 + 0.00inch STRG38L + 1.00inch	10/06/2011	1
37	Damage	ABX No: 37 - Damage to Location LFS Not submitted	STAL1774 + 0.00inch STRG37L + 1.00inch	10/06/2011	1

- The details of an existing discrepancy can be selected and viewed in two different ways. You can scroll down the menu on the LH side of the screen and click on the discrepancy you wish to view. You can also use the model view on the RH side of the screen by selecting the number of the discrepancy or change the views of the model as listed in the next section.

Changing Views in the 3D Model

View Buttons - Views of the aircraft can be changed in a multitude of ways using the 3D model and the control buttons on the RH side of the screen. The top button can be toggled to show all damage and repairs, damages only, repairs only, ghosts, or none. The bottom three buttons can be used to select different profiles of the aircraft. Clicking a second time on a particular view will show the view in the opposite direction (left side-right side, top-bottom, fore-aft)

Mouse Control of 3D Model – The mouse can be used to maneuver the model to any view. A left double-click of the mouse will cause the model to zoom into the particular area of the aircraft that you select. The scroll wheel on the mouse will enable you to zoom in or out of the model. Left clicking and holding down the mouse will enable the model to be rotated in whatever direction you move the mouse. Right clicking and holding down the mouse will enable you to move the model left, right, up, and down on the screen


Viewing Discrepancy Details

For the purposes of explanation, we are going to select damage #12 on 744AX

The screenshot shows the 'dent & buckle' software interface. At the top, there are navigation buttons for 'DASHBOARD', 'DISCREPANCIES', 'REPORTS', and 'MENU'. The user is identified as 'Robert Davis'. The main content area is titled 'Discrepancies for N744AX' and contains a table with columns for 'No.', 'Type', 'Description', 'Location', 'Date', and 'Aft.'. Row 12 is highlighted in red, indicating the selected discrepancy. To the right of the table is a 3D model of the aircraft with red lines radiating from various points on the fuselage, representing the locations of the discrepancies. A control panel on the right side of the 3D model includes buttons for 'All', a camera icon, a profile icon, and a list of discrepancy numbers (3, 4, 8, 55, 87, 155, 54, 102, 98, 99, 96, 97, 100, 12, 11, 145, 146).

No.	Type	Description	Location	Date	Aft.
1	Damage	ABX No:1 - Damage to Location RFS Not submitted	STA1540 + 0.00inch STRG22R + 1.00inch	07/13/2006	-
2	Damage	ABX No:2 - Damage to Location RFS Not submitted	STA1540 + 0.00inch STRG22R + 1.00inch	07/13/2006	-
3	Damage	ABX No:3 - Damage to Location LFS Not submitted	STA286.5 + 0.00inch STRG20L + 1.00inch	07/13/2006	-
4	Damage	ABX No:4 - Damage to Location LFS Not submitted	STA390 + 11.00inch STRG21L + 1.00inch	07/13/2006	-
5	Damage	FS 522 S31R-S32R skin dent	500 + 22.01inch STRG31 RH + 2.17inch	03/05/2006	2
8	Damage	ABX No:8 - Damage to Location LFS Not submitted	STA456 + 0.00inch + inch	10/27/2009	1
11	Damage	FS 1540 S22L skin dent	STA1540 + 0.00inch STRG22L + 1.00inch	11/02/2009	3
12	Damage	FS 1538 S22L skin dent	151.05 + 27.87inch STRG22 LH + 2.32inch	11/02/2009	3
15	Damage	ABX No:15 - Damage to Location RFS Not submitted	STA1370 + 0.00inch STRG20R + 1.00inch	11/04/2009	2
16	Damage	ABX No:16 - Damage to Location RFS Not submitted	STA1366 + 0.00inch STRG28R + 1.00inch	11/04/2009	2
17	Damage	FS 636 S28R-S29R skin dent	632 + 4.37inch STRG28R RH + 2.48inch	11/04/2009	3
18	Damage	FS 635 S31R-S32R skin dent	632 + 2.90inch STRG31 RH + 5.89inch	11/04/2009	3
19	Damage	FS 641 S30R S31R	632 + 12.96inch STRG30 RH + 5.35inch	11/04/2009	3
20	Damage	FS 645 S31R skin dent	632 + 11.61inch STRG31 RH + 1.34inch	11/04/2009	3
21	Damage	ABX No:21 - Damage to Location RFS Not submitted	STA657 + 0.00inch STRG21R + 1.00inch	11/07/2009	2
22	Damage	ABX No:22 - Damage to FLAP ASSY RH INBD TE MAL... Not submitted	Outer Flap RH	11/04/2009	2
24	Damage	ABX No:24 - Damage to Location RTW Not submitted	Wing RH	11/04/2009	2
25	Damage	ABX No:25 - Damage to FLAP ASSY RH OTBD TE Loc... Not submitted	Outer Flap RH	11/01/2009	2
26	Damage	ABX No:26 - Damage to FLAP ASSY INBOARD IT AF L... Not submitted	Outer Flap RH	11/04/2009	2
31	Damage	FS 505 S26L-S27R skin dent	500 + 4.76inch STRG26 RH + 3.50inch	05/23/2011	2
35	Damage	ABX No:35 - Damage to Location LFS Not submitted	STA1465 + 0.00inch STRG38L + 1.00inch	10/05/2011	1
36	Damage	ABX No:36 - Damage to Location LFS Not submitted	STA1529 + 0.00inch STRG38L + 1.00inch	10/05/2011	1
37	Damage	ABX No:37 - Damage to Location LFS Not submitted	STA1774 + 0.00inch STRG37L + 1.00inch	10/05/2011	1

Once you have selected the individual discrepancy, the following information screens will appear on the LH side of the screen. Listed below each screen is a brief description of the data contained in each field


User: Robert Davis

DASHBOARD
DISCREPANCIES
REPORTS
MENU ▾

Edit No: 12 on N744AX
CANCEL
SAVE
SUBMIT
REPORT

FS 1538 S22L skin dent < > COLLAPSE ALL

1 General Description

Short Description *

FS 1538 S22L skin dent

Detailed Description

ABX No: 12 - Damage to Location LFS STA1540 + 0.00inch STRG22L + 1.00inch

MRO *

AMES

Check Type *

C18

PART A - DAMAGE REPORTING

<p>Aircraft</p> <div style="border: 2px solid red; padding: 2px;">N744AX</div>	<p>Date *</p> <div style="border: 2px solid red; padding: 2px;">11/02/2009</div>	<p>Airport / Station *</p> <div style="border: 2px solid red; padding: 2px;">ILN</div>	<p>Workorder Ref *</p> <div style="border: 2px solid red; padding: 2px;">600309350</div>
<p>Aircraft Hours</p> <div style="padding: 2px;">Aircraft Hours</div>	<p>Aircraft Cycles</p> <div style="padding: 2px;">Aircraft Cycles</div>	<p>NRC</p> <div style="border: 2px solid red; padding: 2px;">NR 0088</div>	<p>Original No</p> <div style="padding: 2px;">Original No</div>

Short Description – A brief description of the damage and location

Detailed Description – Any additional relevant info that is necessary to further explain the discrepancy

MRO – Agency that discovered and reported the item (AMES, ABX, HAECO, etc)

Check Type – Type of check discovered on (C19, Mod, Line, etc)

Aircraft – Aircraft tail number

Date - Date that the item was generated

Airport/Station – Where item was generated

WO Ref – PMI WO or LP written up on

NRC – Non routine number for items done in a work package

2 Damage Reporting

Was structural repair accomplished?

Damage Repair

Internal *

Internal External Hide on model

Damage Area *

Fuselage L Fuselage R Wing L Wing R
 Flight Cont LW Flight Cont RW Vert Stabilizer Rudder
 Horiz Stab L Horiz Stab R Elevator L Elevator R
 Pylon #1 Pylon #2 Eng Cowl #1 Eng Cowl #2
 Thrust Rev #1 Thrust Rev #2 Center Wing

Part Details

Skin Production Fastener Frame Stringer
 Web Fitting Floor Beam Spar
 Rib Other

Component *

Fuselage

Component Part Number

Component Serial Number

Damage Cause

Lightning Strike Bird Strike Ground Impact FOD
 Corrosion Hail Unknown Other

Damage Type *

Skin Burn Fastener Burn Dent Gouge
 Crack Erosion Puncture Corrosion
 Chafing Delamination Crease Heat
 Other

Status *

Active Approval pending Inactive Incomplete

Was Structural Repair Accomplished? – Denotes whether a discrepancy is a damage or repair item

Internal – Denotes whether item is internal or external

Damage Area – General area of damage

Part Details – Details of damaged part

Component – Gives component part number and serial number if it is a tracked component

Damage Cause –

Damage Type –

Status – Current status of the damage

3 Damage Location

Unit of measure used * <input checked="" type="radio"/> Inches <input type="radio"/> Millimetres	Damage Side * <input checked="" type="radio"/> Left (Port) <input type="radio"/> Right (Starboard)	Damage Surface <input checked="" type="radio"/> Top <input type="radio"/> Bottom
Frame / BS 1510.5	Stringer STRG22	Rib Rib
Frame distance 27.87 <small>(Distance aft of frame)</small>	Stringer distance 2.32 <small>(Distance below stringer)</small>	Rib distance Rib distance
ENGINES		Front Spar distance Front Spar distance
Engine Number Engine Number	Clock Station Clock Station	Front Edge Distance Front Edge Distance

Damage Side –

Damage Surface –

Frame/Stringer – For frames, gives the station number of closest frame forward of the damage and the number of inches aft of that frame. For stringers, gives the number of the closest stringer above the damage and the distance below that stringer

Engines – Engine number and clock position facing forward

4 Damage Assessment

Manual
B767-200 SRM

Revision
Revision

Chapter
53-00-01

Paragraph
Paragraph

Fig / Dia
F101

Within SRM Limits?
 Yes No

If No, please provide reason
Reason

Approval Reference
Approval Reference

NDT Inspection Method

DVI Roto-Probe Tap-Test Ultrasonic
 X-Ray HFEC LFEC N/A
 DPI Other

Manual – Manual used to determine serviceability

Chapter – Manual Chapter, Section, and Subsection Used

Fig/Dia – Figure, diagram, or detail used if known

NDT Inspection Method – NDT method used for inspection during initial evaluation if known or applicable

5 Damage Size

Unit of measure used *

- Inches
- Millimetres

Length (L)

Length (L)

Orientation (MA)

- Longitudinal
- Radial
- Lateral
- Spanwise
- Vertical
- Chordwise
- Circumferential

Width (A)

1.4

Orientation (ma)

- Longitudinal
- Radial
- Lateral
- Spanwise
- Vertical
- Chordwise
- Circumferential

Depth (Y)

0.017

A/Y

82.35

Diameter

Diameter

Nominal Thickness(T)

Nominal Thickness(T)

Remaining Thickness

Remaining Thickness

Depth of Cleanup (X)

Depth of Cleanup (X)

Distance to Edge (Z)

Distance to Edge (Z)

Watch Item

Carry Over

No Action Required

Width –

Depth –

A/Y – Width divided by depth

Watch Item, Carry Over, No Action Required – Denotes if a watch item or carry over item was created

6 Additional Maintenance Requirements

Additional Maint Requirements
Additional Maint Requirements

Hours to Next Inspection
Hours to Next Inspection

Cycles to Next Inspection
Cycles to Next Inspection

Next Inspection Date
08/12/2016

Remarks
Remarks

Category
 A-Permanent
 B-Interim
 C-TimeLimited

DTE EO
DTE EO

DTI EO
DTI EO

DTI Required

RSC

DTI Threshold
DTI Threshold

DTI Repeat
DTI Repeat

DTI Method
DTI Method

Category – Current category of damage

RSC – This box is checked for removable structural components such as flight controls

7 Contact details and signatures **Incomplete**

Employee/Licence No. *
Employee/Licence No.

First Name *
Walter

Last Name *
Pico

Company *
ABX Air

E - mail *
walter.pico@abxair.com




CANCEL SAVE SUBMIT

Section 7 contains the details of the individual who created the discrepancy in the Dent and Buckle system

RH Side of the Discrepancy Detail Screen

1

Attachments

-  744AX - Dent #12 (1).PDF
-  744AX - Dent #12 (2).PDF
-  WIN_20160919_16_01_25_Pro.jpg

The RH side of the screen contains a close up view of the damage location. It also contains a listing of all the attachments associated with the damage that have been uploaded to include photos of the damage, copies of the original NR, or other pertinent documents. To view, select a document and it will download in a separate screen