

dent & buckle

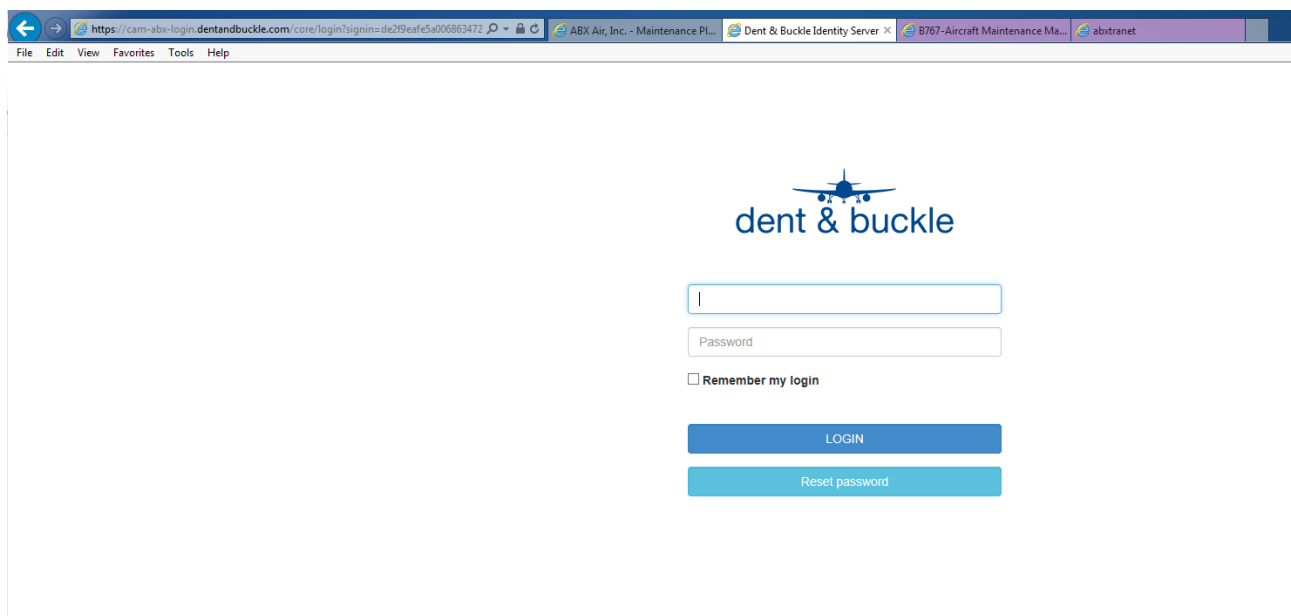
New Discrepancy Creation Procedures

The following pages contain the procedures for logging into the Dent and Buckle software and creating a new discrepancy on a selected aircraft

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



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

- Address bar: <https://cam-abx-login.dentandbuckle.com/core/login?signin=de2f9eaf65a006863472>
- Browser tabs: ABX Air, Inc. - Maintenance PL..., Dent & Buckle Identity Server X, 8767-Aircraft Maintenance Ma..., abxtranet
- File menu: File, Edit, View, Favorites, Tools, Help
- Logo: dent & buckle (with an airplane icon above the text)
- Input fields: Username (containing '|'), Password
- Checkbox: Remember my login
- Buttons: LOGIN (dark blue), Reset password (light blue)

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

The screenshot shows the 'dent & buckle' dashboard. At the top, there are navigation buttons for 'DASHBOARD', 'DISCREPANCIES', 'REPORTS', and 'MENU'. The user is identified as 'User: Robert Davis'. Below the navigation is the 'Dashboard - Fleet Action Summary' section. A red box highlights the 'Select Registration:' dropdown menu, which is currently set to 'All registrations'. To the right of this dropdown is a 'GO TO AIRCRAFT' button. Below the dropdown are filter options: 'Filter by' (set to 'ALL TYPES'), 'Prev. Days' (set to '180'), and 'Text search' (with a placeholder 'Enter phrase...'). There are 'FILTER' and 'CLEAR FILTERS' buttons. Below the filters is a pagination section with '20 items per page', 'Go to page: 1', and 'GO' buttons. To the right of this are 'PREV.', '1', '2', '3', '4', '5', '6', '7', '8', '...', '18', and 'NEXT' buttons. The main content is a table with columns: Action, Damage, Ref no., Description, Type, Aircraft, Date, User, Status, and Cat. The table contains 18 rows of data, all showing 'Damage' actions on various aircraft.

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 L+S	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 R+S	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

Entering New Discrepancies

- Entering new discrepancies into Dent and Buckle consists of 3 basic steps: Location of damage or repair on 3D model, attachment of documents and photos, damage or repair detailed information entry.
- To enter a new discrepancy, you must be on the discrepancy listing screen for the aircraft you are entering information on.
- Select the “ADD” button at the top of the screen to create a new discrepancy

The screenshot displays the 'dent & buckle' software interface. At the top, there are navigation tabs for 'DASHBOARD', 'DISCREPANCIES', and 'REPORTS', along with a 'MENU' button and the user name 'User: Robert Davis'. The main content area is titled 'Discrepancies for N744AX' and features an 'ADD' button highlighted with a red box. Below this is a search bar and a table of discrepancy entries.

No.	Type	Description	Location	Date	Att.
1	Damage	ABX No:1 - Damage to Location RFS	STA1540 + 0.00inch STRG22R + 1.00inch	07/13/2006	-
2	Damage	ABX No:2 - Damage to Location RFS	STA1540 + 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 LFS	STA390 + 11.00inch STRG21L + 1.00inch	0/13/2006	-
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	STA1540 + 0.00inch STRG22L + 1.00inch	11/02/2009	3
12	Damage	FS 1538 S22L skin dent	1610.5 + 27.87inch STRG22 LH + 2.32inch	11/02/2009	3
15	Damage	ABX No:15 - Damage to Location RFS	STA1370 + 0.00inch STRG30R + 1.00inch	11/04/2009	2
16	Damage	ABX No:16 - Damage to Location RFS	STA1366 + 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 6/1 S30R S31R	632 + 13.96inch STRG30 RH + 5.85inch	11/04/2009	3
20	Damage	FS 649 S31R skin dent	632 + 11.81inch STRG31 RH + 1.84inch	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.	Outer Flap RH	11/04/2009	2
24	Damage	ABX No:24 - Damage to Location RTW	Wing RH	11/04/2009	2
25	Damage	ABX No:25 - Damage to FLAP ASSY RH OTBD TE Loc...	Outer Flap RH	11/04/2009	2
26	Damage	ABX No:26 - Damage to FLAP ASSY INBOARD LE AH...	Outer Flap RH	11/04/2009	2
31	Damage	FS 505 S26L-S27R skin dent	500 + 4.76inch STRG26 RH + 3.50inch	02/23/2011	2
35	Damage	ABX No:35 - Damage to Location LFS	STA1465 + 0.00inch STRG38L + 1.00inch	10/05/2011	1
36	Damage	ABX No:36 - Damage to Location LFS	STA1829 + 0.00inch STRG35L + 1.00inch	10/05/2011	1
37	Damage	ABX No:37 - Damage to Location LFS	STA1774 + 0.00inch STRG37L + 1.00inch	10/05/2011	1

On the right side of the interface, there is a 3D model of the aircraft N744AX. Red lines radiate from various points on the aircraft, indicating the locations of the discrepancies listed in the table. A control panel on the right side of the 3D model includes an 'All' button and several directional icons for rotating and zooming the model.

Once you have selected the “ADD” button, the following data entry screen will appear with

The screenshot shows the 'dent & buckle' web application interface. At the top, there is a navigation bar with 'DASHBOARD', 'DISCREPANCIES', 'REPORTS', and 'MENU' buttons, and the user name 'User: Robert Davis'. Below this, there is a header for the current report: 'Edit No: 12 on N744AX', with 'CANCEL', 'SAVE', 'SUBMIT', and 'REPORT' buttons. The main content area is titled 'FS 1538 S22L skin dent' and includes a 'COLLAPSE ALL' button. The form is divided into sections: 'General Description' with 'Short Description' (containing 'FS 1538 S22L skin dent') and 'Detailed Description' (containing 'ABX No: 12 - Damage to Location LFS STA1540 + 0.00inch STRG22L + 1.00inch'). Below these are 'MRO' (containing 'AMES') and 'Check Type' (containing 'C18'). A section titled 'PART A - DAMAGE REPORTING' contains several fields: 'Aircraft' (N744AX), 'Date' (11/02/2009), 'Airport / Station' (ILN), 'Workorder Ref' (600309350), 'Aircraft Hours', 'Aircraft Cycles', 'NRC' (NR 0088), and 'Original No'.

Short Description – Enter brief description of discrepancy that will accurately identify damage and location

Detailed Description – Enter 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 will auto-populate

Date - Date that the item was generated

Airport/Station – Where item was generated

WO Ref – Enter PMI WO or LP written up on

NRC – Non routine number for items done in a workpackage

2 Damage Reporting

Was structural repair accomplished?

Damage Repair

Internal *

Internal External Hide on model

Damage Area *

<input checked="" type="checkbox"/> Fuselage L	<input type="checkbox"/> Fuselage R	<input type="checkbox"/> Wing L	<input type="checkbox"/> Wing R
<input type="checkbox"/> Flight Cont LW	<input type="checkbox"/> Flight Cont RW	<input type="checkbox"/> Vert Stabilizer	<input type="checkbox"/> Rudder
<input type="checkbox"/> Horiz Stab L	<input type="checkbox"/> Horiz Stab R	<input type="checkbox"/> Elevator L	<input type="checkbox"/> Elevator R
<input type="checkbox"/> Pylon #1	<input type="checkbox"/> Pylon #2	<input type="checkbox"/> Eng Cowl #1	<input type="checkbox"/> Eng Cowl #2
<input type="checkbox"/> Thrust Rev #1	<input type="checkbox"/> Thrust Rev #2	<input type="checkbox"/> Center Wing	

Part Details

<input checked="" type="checkbox"/> Skin	<input type="checkbox"/> Production Fastener	<input type="checkbox"/> Frame	<input type="checkbox"/> Stringer
<input type="checkbox"/> Web	<input type="checkbox"/> Fitting	<input type="checkbox"/> Floor Beam	<input type="checkbox"/> Spar
<input type="checkbox"/> Rib	<input type="checkbox"/> Other	<input type="text" value="Other part detail"/>	

Component *

Fuselage

Component Part Number

Component Serial Number

Damage Cause

<input type="radio"/> Lightning Strike	<input type="radio"/> Bird Strike	<input type="radio"/> Ground Impact	<input type="radio"/> FOD
<input type="radio"/> Corrosion	<input type="radio"/> Hail	<input checked="" type="radio"/> Unknown	<input type="radio"/> Other
			<input type="text" value="Other cause"/>

Damage Type *

<input type="checkbox"/> Skin Burn	<input type="checkbox"/> Fastener Burn	<input checked="" type="checkbox"/> Dent	<input type="checkbox"/> Gouge
<input type="checkbox"/> Crack	<input type="checkbox"/> Erosion	<input type="checkbox"/> Puncture	<input type="checkbox"/> Corrosion
<input type="checkbox"/> Chafing	<input type="checkbox"/> Delamination	<input type="checkbox"/> Crease	<input type="checkbox"/> Heat
<input type="checkbox"/> Other	<input type="text" value="Other type"/>		

Status *

Active Approval pending Inactive Incomplete

Was Structural Repair Accomplished? – System will default to Damage, will have to click on repair to change status

Internal – System default is External

Damage Area – Select closest description of area with discrepancy

Part Details – Select closest description of part with discrepancy or check the “Other” box and type in description

Component – These fields will auto-populate based off of location that damage was located on the model.

Damage Cause – Select cause of damage if know

Damage Type – Select type of damage or enter a different type in the other box

Status – Select the Active button for new discrepancies

3 Damage Location

Unit of measure used *
 Inches
 Millimetres

Damage Side *
 Left (Port)
 Right (Starboard)

Damage Surface
 Top
 Bottom

Frame / BS	Stringer	Rib
1510.5	STRG22	Rib
Frame distance 27.87 <small>(Distance aft of frame)</small>	Stringer distance 2.32 <small>(Distance below stringer)</small>	Rib distance Rib distance
		Front Spar distance Front Spar distance

ENGINES

Engine Number	Clock Station	Front Edge Distance
Engine Number	Clock Station	Front Edge Distance

Damage Side – Select side of aircraft or component that damage is located

Damage Surface – System default is Top

Frame/Stringer – For damages selected on the fuselage in the model, this information will auto-populate. For damages other than the fuselage, stations should be entered manually (NAC 349, WS 172, ISS 670, etc)

Engines – For engine discrepancies enter the Engine Number and Clock position as 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 – Enter manual used to determine serviceability

Chapter – Manual Chapter, Section, and Subsection Used

Fig/Dia – Enter figure, diagram, or detail used if known

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

5 Damage Size

Unit of measure used *

Inches
 Millimetres

Length (L)

Orientation (MA)
 Longitudinal
 Radial
 Lateral
 Spanwise
 Vertical
 Chordwise
 Circumferential

Width (A)

Orientation (ma)
 Longitudinal
 Radial
 Lateral
 Spanwise
 Vertical
 Chordwise
 Circumferential

Depth (Y)

A/Y

Diameter

Nominal Thickness(T)

Remaining Thickness

Depth of Cleanup (X)

Distance to Edge (Z)

Watch Item
Carry Over
No Action Required

Width – Enter width of dent (A). If enter a number less than one, you need to enter a 0, then a decimal point, then the numbers to the right of the decimal point.

Depth – Enter the depth of the Dent (Y). If enter a number less than one, you need to enter a 0, then a decimal point, then the numbers to the right of the decimal point.

A/Y – This information will automatically calculate once the A dimension and the Y dimension is entered.

Watch Item, Carry Over, No Action Required – Select the appropriate box. For almost all dent items on a B767, there will be no action required.

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 – Select the appropriate category for the discrepancy. The majority of all dents will be Category A, but there may be some exceptions.

RSC – Check this box for removable structural components such as flight controls

7 Contact details and signatures Incomplete

Employee/Licence No. *
Employee/Licence No.

First Name * **Last Name ***
Walter Pico

Company *
ABX Air

E - mail *
walter.pico@abxair.com

CANCEL SAVE SUBMIT

Section 7 will automatically fill in all the information listed based upon the login supplied to create the discrepancy

Discrepancy Save or Submission

- At the top and bottom of the data entry screen there are Save and Submit buttons.
- If there are items that are still needed to complete the record for the discrepancy such as a photo, DFP, or other data, then select the Save button.
- If all data has been collected and is complete, then select the Submit button.
- Once the discrepancy has been submitted, the color of the box for the item on the model view will change to blue, designating that all data has been collected for the discrepancy and it is now complete.