

NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

June 15, 2011

Group Chairman's Factual Report

AIRWORTHINESS

DCA11FA004

Attachment 1 – Maintenance Records
(9 pages)

STRUCTURE

FUSELAGE UPPER LOBE INTERIOR BS 308-440 (SEC 41) - INSPECTION

Card No **2211**

Page 1 of 3

Rev Date 03/05/2008



American Airlines®

Equipment **B757**
System **53**
Workzone **200**

Skill **1**
Section **8**
Pattern



(SIGN NAME/EMPL #)
INSP/
MECHANIC CREWCHIEF

- 1 Open the following access panels
 - A Forward passenger cabin door linings
 - B Cabin ceiling panels and sidewall panels in inspection areas
 - C Access panels 221AL, 222AR

2 Displace insulation as required for inspection

NOTE Insulation should only be displaced at the ends (joints) to inspect structure. More access is not required, unless evidence of corrosion is found.

- A Vacuum the inspection zone to remove any dust debris or other combustibles. The cleaned area should also include any adjacent areas that will be disturbed by the displacement of insulation, panels, etc during inspection.

NOTE This step should be accomplished prior to displacing the insulation or other components as required for inspection.

- B From Sta 308 to 440, from stringers S-6L to S-17L (MRB/MPD 53-256-00)

Access 2001, 2211, 2212, 2215, 221AL, 2232, 2311, 831, 8311, 837, 8371

- C From Sta 308 to 440, from stringers S-6R to S-17R (MRB/MPD 53-268-00)

Access 2001, 2211, 2215, 222AR, 841, 8411

- D From Sta 308 to 440, from stringers S-1 to S-6L (MRB/MPD 53-272-00)

Access 2001, 2231

- E From Sta 308 to 440, from stringers S-1 to S-6R (MRB/MPD 53-274-00)

Access 2001, 2231



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Equipment B757 Skill 1
System 53 Section 8
Workzone 200 Pattern



(SIGN NAME/EMPL #)
INSP/
MECHANIC CREWCHIEF

3 Clean the fuselage upper lobe interior structure between BS 308 and BS 440 above S-17L and S-17R of dust and loose debris as required per Baseline Program Basic Task, outlined in MCM Section 3 - Corrosion Prevention And Control Guidelines If corrosion preventative compound has been installed, and it is in serviceable condition, do not remove it during the cleaning process

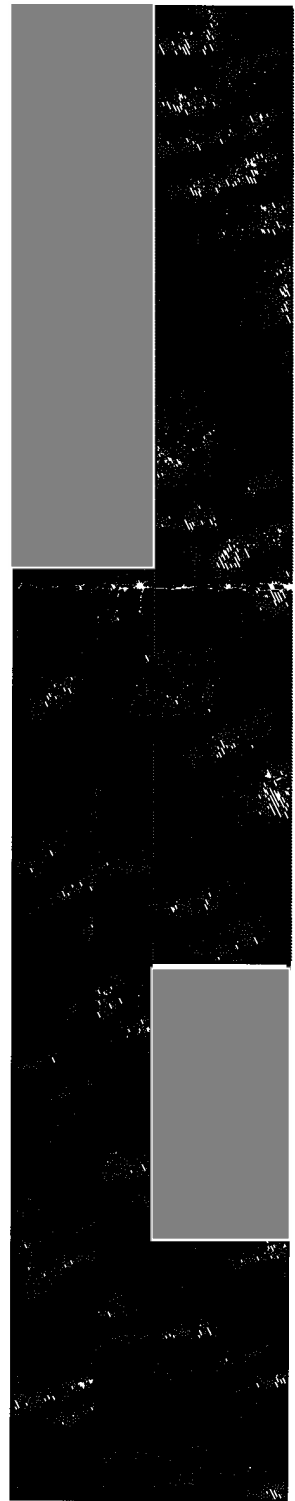
- A From Sta 308 to 440, from stringers S-6L to S-17L (MRB/MPD 53-256-00)
- B From Sta 308 to 440, from stringers S-6R to S-17R (MRB/MPD 53-268-00)
- C From Sta 308 to 440, from stringers S-1 to S-6L (MRB/MPD 53-272-00)
- D From Sta 308 to 440, from stringers S-1 to S-6R (MRB/MPD 53-274-00)

NOTE These inspections are to accomplished in accordance with Baseline Program Basic Task outlined in MCM Section 3- Corrosion Prevention and Control Guidelines If additional access is required that requires further disassembly than the access noted, inspection in the area beyond this given access is not required unless evidence of corrosion is found (i e , if you have to take permanent installations (wire bundles, waterlines, ducts, etc , apart to gain access you do not have to inspect beyond that installation unless evidence of corrosion is found) Displace insulation where possible in these areas

NOTE The inspection is only necessary at the ends (joints) of the insulation, unless evidence of corrosion is found

4 Perform a General Visual inspection Fuselage upper lobe interior structure between BS 297/308 and BS 440 from S-6L and S-17L including skin panels, skin splices and joints, frames, stringers, doublers, shear ties, door cutouts, door interiors, main deck floor structure crease beam at S-17L, tear straps, area around lavs, window cutout frames, rigid barrier support fittings (MRB/MPD 53-256-00)

NOTE Main entry door structure inspection may be excluded if door was sent to shop





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Equipment B757 Skill 1
System 53 Section 8
Workzone 200 Pattern



(SIGN NAME/EMPL #)
INSP/
MECHANIC CREWCHIEF

5 Perform a General Visual inspection Fuselage upper lobe interior structure between BS 297/308 and BS 440 from S-6R and S-17R including skin panels, skin splices and joints, frames, stringers, doublers, shear ties, door cutouts, door interiors, main deck floor structure crease beam at S-17R, tear straps, area around lavs, window cutout frames, rigid barrier support fittings (MRB/MPD 53-268-00)

NOTE Main entry door structure inspection may be excluded if door was sent to shop

6 Perform a General Visual inspection Fuselage upper lobe interior structure between BS 297/308 and BS 440 from S-1 and S-6L including skin panels, skin splices and joints, frames, stringers, doublers, and for PF only rigid barrier straps (MRB/MPD 53-272-00)

7 Perform a General Visual inspection Fuselage upper lobe interior structure between BS 297/308 and BS 440 from S-1 and S-6R including skin panels, skin splices and joints, frames, stringers, doublers, and for PF only rigid barrier straps (MRB/MPD 53-274-00)

8 Apply a single coat of CORBAN 35, or equivalent, corrosion inhibiting compound as required, per the baseline program basic task, outlined in MCM Section 3 - Corrosion Prevention And Control Guidelines to the fuselage upper lobe interior structure between BS 308 and BS 440 above S-17L and S-17R

9 Re-install panels, insulation blankets, interior equipment, furnishings if removed in steps 1 and 2

A From Sta 308 to 440, from stringers S-6L to S-17L

B From Sta 308 to 440, from stringers S-6R to S-17R

C From Sta 308 to 440, from stringers S-1 to S-6L

D From Sta 308 to 440, from stringers S-1 to S-6R

10 Reinstall the following access panels

A Forward passenger cabin door linings

B Cabin ceiling panels and sidewall panels in inspection areas

C Access panels 221AL, 222AR





2211

Final - Talled

American Airlines Routine Task Card

BOW:

B757 626 TULE 05/21/-
2009 HC VISIT 4

Task Card Description:

FUSELAGE UPPER LOBE INTERIOR BS 308-440 (SEC 41) - INSPECTION

Aircraft Number:

626

Station:

TULE

Closing Requirement:

None

SSI-SID-SIP or Corrosion Control Required:

SSI-SID-SIP Corrosion Task:

Created By:

import - EmpowerMX Import
05/15/2009 06:40 CDT

Estimated Hours By Skill:

GENERAL: 64:00
INSPECTION AO: 1:30

Est. Hours:

65:30

Act. Hours:

3:06

Billing Code:

Default Billing
Code - Default
Billing Code

Zone:

221 - Main Deck
cabin - section 41 (LT)

ATA:

53-00 - FUSELAGE
STRUCTURE (GENERAL)

SDA:

NO

Manual Reference:

NOTES

No. Note

TASKS

No. Approval Level Approved By Accomplished By Description

WORK IN PROGRESS

No. Approval Level Approved By Accomplished By Description

1 None N/A [Redacted] Ron Kurz Complete: task card complete
06/17/2009 13:34 CDT

TASK CARD COMPLETION

Approval Level Approved By Accomplished By Completion

None N/A [Redacted] Ron Kurz Complete: task card complete
06/17/2009 13:34 CDT

1st Audit: [Redacted] - Brett Driscoll RII MAR11 06/17/2009 13:40 **Mechanics :**

2nd Audit: [Redacted] - Bill Kinast RII AUG09 06/17/2009 18:21 CDT



INSPECTION

| | |
|---------------------------------|---|
| UPPER FUSELAGE - INSPECT | Card No 2250 Page 1 of 1 Rev Date 06/07/2007 |
|---------------------------------|---|



American Airlines®

MRB/MPD 53-242-00, 0600-200-01Z

| | |
|-------------------------|------------------|
| Equipment B757 | Skill 0 |
| System 53 | Section 8 |
| Workzone 200,800 | Pattern |



(SIGN NAME/EMPL #)
 INSP /
 MECHANIC CREWCHIEF

- 1 Perform an external detailed inspection of the upper fuselage from stringer S- 17L to stinger S-17R, paying particular attention to the skin in areas of attachments to stringers, frames and longitudinal splices and including cockpit windows in the following locations
 - A Body sta 199 09 to body sta 399 5
Access none
 - B Body sta 399 5 to body sta 686
Access none
 - C Body sta 686 to body sta 900
Access none
 - D Body sta 900 to body sta 1180
(MRB/MPD 53-294-00, 53-300-00)
Access none
 - E Body sta 1180 to body sta 1440
(MRB/MPD 53-314-00, 53-324-00)
Access none
 - F Body sta 1440 to body sta 1720
(MRB/MPD 53-314-00, 53-324-00)
Access none
- 2 Perform a detailed external inspection of the Zone 200 body skin within 12 inches of all cutouts to include all doors, overwing emergency exit hatches, cockpit windows and passenger cabin windows (MRB/MPD 53-238-00)
 - A L/H side fuselage
Access none
 - B R/H side fuselage
Access none
- 3 Perform a general visual inspection of body external skin including door cutouts and stops (Ref MRB/MPD 53-236-00)
- 4 A/C 5BY only Pay special attention to nine (9) blind fasteners located between STA 255 and STA 418, and S11R and S14R, for condition security Installation is acceptable if fasteners are secure in hole (Ref MRB 757-873)





2250

Final - Talled

American Airlines Routine Task Card

BOW:

B757 626 TULE 05/21/-
2009 HC VISIT 4

Aircraft Number:

626

Station:

TULE

Created By:

import - EmpowerMX Import
05/15/2009 06:40 CDT

Zone:

830 - Upper Half of
the Fuselage (LT)

Task Card Description:

UPPER FUSELAGE - INSPECT

Closing Requirement:

None

SSI-SID-SIP or Corrosion Control Required:

SSI-SID-SIP Corrosion Task:

Est. Hours: Act. Hours:

4:00 0:00

Billing Code:

Default Billing
Code - Default
Billing Code

Mechs Reqd.: 1

ATA:

53-00 - FUSELAGE
STRUCTURE (GENERAL)

SDA:

NO

Manual Reference:

NOTES

No. Note

TASKS

No. Approval Level Approved By Accomplished By Description

WORK IN PROGRESS

No. Approval Level Approved By Accomplished By Description

1 None N/A [redacted] - P Complete: Task card complete.
LAYMAN RII MAY11
05/22/2009 12:26 CDT

TASK CARD COMPLETION

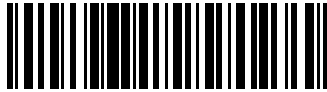
Approval Level Approved By Accomplished By Completion

None N/A [redacted] - P Complete: Task card complete.
LAYMAN RII MAY11
05/22/2009 12:26 CDT

1st Audit: [redacted] - Art Spoerl RII JUL10 05/22/2009 12:28 CDT

2nd Audit: [redacted] - David Pfriem RII APR11 05/22/2009 18:17
CDT

Mechanics :



2250/001
1165994

Final - Talled

American Airlines Non-Routine Task Card

BOW:

DISCREPANCY:

B757 626 TULE 05/21/- Dent in the fuselage at station 1570 between str. 15R and 16R.
2009 HC VISIT 4

Aircraft Number:
626

Zone:
830 - Upper Half of
the Fuselage (LT)

Work Area:
Fuselage Exterior

ATA:
53-00 - FUSELAGE
STRUCTURE
(GENERAL)

MSR#:
021144

y:
- P
LAYMAN RII MAY11
05/22/2009 12:10 CDT

Station:
TULE

Closing Requirement:
None

dit:
- D.
Petrovich RII NOV09
06/09/2009 09:33 CDT

Audit:
- David
Pfriem RII APR11
06/09/2009 17:29 CDT

EVALUATION

Emp - Marc Lorenz **Date/Time** 05/22/2009 12:17 CDT **Evaluation**

Manual Reference:

CORROSION AND STRUCTURAL REPAIR ITEMS

| Corrosion Level | CPCP Task Number | Cause of Damage | Area | |
|-----------------|------------------|---|--|--|
| TASKS | | | | |
| No. | Approval Level | Approved By | Accomplished By | Description |
| 1 | None | N/A | : - P LAYMAN RII MAY11 05/22/2009 12:21 CDT CA: - Bryan Lingafelter 05/26/2009 08:11 CDT | Task: Strip paint around dent @ sta. 1570, str. 15R-16R. CA: removed paint from area described |
| 2 | QA | - D. Petrovich RII NOV09 06/08/2009 13:41 CDT | : - P LAYMAN RII MAY11 05/22/2009 12:22 CDT - Martin Snarski 05/28/2009 14:14 CDT | Task: Evaluate the dent @ sta. 1570, str. 15R-16R. CA: Dent is within limits PER SRM 53-00-01-1A. |
| 3 | None | N/A | Task: - Ken Blizzard 05/26/2009 11:56 CDT A: - Larry Yurkosky -NDT 05/26/2009 12:44 CDT | Task: Request HFEC of fuselage in this area to check for cracks CA: Performed HFEC on dent, no cracks found. |

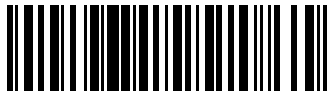
| | | | | |
|---|------|-----|---|---|
| 4 | None | N/A | Task: Mark Fridley 06/01/2009 20:39 CDT | Task: Restore paint finish where removed for repair |
| | | | A: - Kenny Robertson 06/05/2009 05:39 CDT | CA: primed and painted as required |

WORK IN PROGRESS

| No. | Approval Level | Approved By | Accomplished By | Description |
|-----|----------------|--|---|---|
| 1 | RII | - John Rohweder RII MAR10 05/29/2009 17:21 CDT | - James Heaton 05/29/2009 17:13 CDT | WIP: Removed damage. |
| 2 | None | N/A | - Mark Fridley 05/29/2009 17:03 CDT | WIP: Damage cutout requires HFEC for cracks. |
| 3 | QA | - John Rohweder RII MAR10 05/29/2009 19:50 CDT | - James Heaton 05/29/2009 19:46 CDT | WIP: material ID for doubler is 2024-T3 .050. |
| 4 | None | N/A | - D Craig -NDT 05/29/2009 17:53 CDT | WIP: hfec'd skin edge at dent/cutout, no cracks found. |
| 5 | None | N/A | - James Heaton 05/29/2009 17:59 CDT | WIP: Made additional .040 "insurance cut". |
| 6 | None | N/A | - James Heaton 05/29/2009 17:00 CDT | WIP: Laid out doubler and drilled up to size. |
| 7 | RII | - John Rohweder RII MAR10 06/01/2009 18:18 CDT | - James Heaton 06/01/2009 17:09 CDT | WIP: Finished making doubler.OK to install. |
| 8 | RII | - John Rohweder RII MAR10 06/01/2009 20:40 CDT | - James Heaton 06/01/2009 20:29 CDT | WIP: Installed doubler wet with sealant per SRM 53-00-01-2R 3 |
| 9 | None | N/A | - Marc Lorenz 06/09/2009 09:18 CDT | Complete: Installed doubler wet with sealant per SRM 53-00-01-2R 3, see above wips and tasks. |

TASK CARD COMPLETION

| Approval Level | Approved By | Accomplished By | Completion |
|----------------|-------------|---------------------------------------|---|
| None | N/A | - Marc Lorenz 06/09/2009 09:18 CDT | Complete: Installed doubler wet with sealant per SRM 53-00-01-2R 3, see above wips and tasks. |



2250/002

2250/002
1165995

Final - Talled

American Airlines Non-Routine Task Card

BOW:

DISCREPANCY:

B757 626 TULE 05/21/-
2009 HC VISIT 4

Rivit head sheared in A/C skin at station 1640 between str. 15R and 16R.

Aircraft Number:
626

Zone:
254 - Area above Main
Deck cabin ceiling
- section 46 (RT)

Work Area:
Fuselage Exterior

ATA:
53-00 - FUSELAGE
STRUCTURE
(GENERAL)

MSR#:
N/A

Orig.By:

Station:
TULE

Closing Requirement:
None

1st Audit:

dit:

- P
LAYMAN RII MAY11
05/22/2009 12:12 CDT

- John
Rohweder RII MAR10
06/08/2009 20:55 CDT

- P
VARCOE RII May11
06/09/2009 06:42 CDT

EVALUATION

| Empl | Date/Time | Evaluation |
|----------------|----------------------|------------|
| - Ken Blizzard | 05/25/2009 10:30 CDT | |

Manual Reference:

CORROSION AND STRUCTURAL REPAIR ITEMS

| Corrosion Level | CPCP Task Number | Cause of Damage | Area |
|-----------------|------------------|-----------------|------|
|-----------------|------------------|-----------------|------|

TASKS

| No. | Approval Level | Approved By | Accomplished By | Description |
|-----|----------------|-------------|-----------------|-------------|
|-----|----------------|-------------|-----------------|-------------|

WORK IN PROGRESS

| No. | Approval Level | Approved By | Accomplished By | Description |
|-----|----------------|-------------|-----------------|-------------|
|-----|----------------|-------------|-----------------|-------------|

| | | | | |
|---|------|---|--|--|
| 1 | None | N/A | - Wayne Drewry RII JUN 11 05 21:44 CDT | WIP: removed the sheared rivit and opened hole to 7/32 dia. |
| 2 | QA | - D. Petrovich RII NOV09 06/03/2009 09:51 CDT | - Duane Knoedler 06/03/2009 09:50 CDT | WIP: installed rivet per preliminary e.a. |
| 3 | None | N/A | - Mark Fridley 06/08/2009 20:39 CDT | Complete: Fastner installed IAW final EA B757-53-006466 dated 06/08/09. refer to above WIPs and tasks for accomplishments. |

TASK CARD COMPLETION

| Approval Level | Approved By | Accomplished By | Completion |
|----------------|-------------|--|--|
| None | N/A | - Mark Fridley 06/08/2009 20:39 CDT | Complete: Fastner installed IAW final EA B757-53-006466 dated 06/08/09. refer to above WIPs and tasks for accomplishments. |