MINI PACK

AJW

Model GE 90 Inlet Cowl

Serial 001114

Part number 314W1400-9

Condition REPAIRED

TSR 0 CSR 0 TSN 35,213 CSN 4,415

Trace to Etihad (Last operator)

Tag by SOCIETE AIR FRANCE

Tag date 21 JUN 2019

Location EUROPE



Additional details

For additional details on this unit please **contact** the AJW Major Assets Team.

AIRWORTHY CERTIFICATE/FORM

	proving Competent Authority/Country	2. ALITHO	PISED DELEAGE A				
L'A	RECTION GÉNÉRALE DE VIATION CIVILE / FRANCE	Geranca	RISED RELEASE CI et d'Autorisation de Mis ORM 1 — Formulaire	e en San	vico.	3. Form Num	Tracking Number èno de traçaga du formulaire
4. Org Nom	janisation Name and Address i et adresse de l'organisma	SOCIETE A		7 de l'EA	ISA		*8463500*
6. Item	7. Description	AIRFRANCE #45 rue de P 95747 ROIS FRANCE	aris SSY CDG Cedex			i ≒an a	Order/Contract/Invoice le Commande/Contrat/Facture 2203
			8. Part No / Numéro da la pièce 9. Qty. / Qté 10.		10. Serial No. / Numero		
1	INLET COWL ASSEMBLY (GE90-115	B }	314W1400-9	1	001114		11. Status / Work État / Trava
12. Rema Observ	alions BOEING	CMM 71-11-23 REV22 JI		Medius programmes			REPAIRED
For work The wor in resp	SOR NUMBER 77/54/COI361 REVOLC details, see Work Shop Report k identified in Block 11 and d ect to that work, the items ar	VING AJW RO: NUMBER T32203 DATED 17032019 REVDO DATED 13MAR2019. CAT.A DATED 19JUN2019. With same number as mentioned 1 escribed herein has been accompled approved from the compless accompless acc			SINCE New Ohaul	HOURS 035213	-LATED- EYCLES DAY CA 4415
Certifie □ e t □ n a 3b Authori	que les éléments identifiés ci-dessus ont ipproved dessin data and are in condition for sale pur données de définition approuvées et sont en on approved design data specified in block 12 ux données de définition non approuvées indiquée ux données de définition non approuvées indiquée le Ed Signature	nanufactured in conformity to: été fabriqués conformément : operation det de fonctionner en toute sécurité es en case 12.	14a. 🔀 Part-145.A.50 Partie 145.A.50 Certifies that unless other accordance with Part-145 a. Certifie que, sauf disposition de accomplis conformèmer service	Release to Ser O Remise en se vise specified in t nd in respect to tha	rvice rvice block 12, the work identified in all work the items are considered	Autre regionie block 11 and de ready for release	TCCA CERTIFICATE No.897-20 ion specified in block 12 entation visée à la case 12 scribed in block 12, was accomplished in to service. Is la case 11 et décrits dans la case 12, on il considérés comme prêts à être remis en
Signatu 3d, Name /	e autorisée	13c. Approval / Authorisation Nu Numero de l'agrément / auto	niver nisation Signature autorisée	ire	0 /	4c. Certificate	/ Approval Ref. No. ical / d'agrément
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Ce certificat a Mileto Vio usi tom the alevie	ALLER RESPONSIBILITIES I RESPONSABILI de does not automatically constitute authority to the le vauf pas automatiquement autorisation d'inste edinstallar performs work in accordance with re- inhiness authority specifient in block 1	nstall the Item(s). Iller le ou les éléments, Rollations et en ainmetting de la constant de la c	non Um aliworthiness authority specified in sable de la navigabilité, autre que l'autor responsable de la navigabilité inscrite à la ecords must contain an Installation conta	<u> </u>			

SHOP VISIT REPORT

AIRFRANCE /

45 rue de PARIS F-95747 ROISSY CHARLES DE GAULLE CEDEX

FAX : 33 (0) 141 560 165

TLX : RSYLOAF

WORK SHOP REPORT

No: 8463500

Customer...: AJ WALTER AVIATION LTD

Work Order,: T32203

Dossier....: 1904918 Requisition No.: 00620637

Designation : INLET COWL ASSEMBLY (GE90-115B)

Part Number...: 314W1400-9

Serial Number.: 001114

TSN.: UNKNOWN

CSN.: UNKNOWN

Removal from A/C.: A6-LRC

Aircraft Model...: UNKNOWN

Pos.: UNKNOWN

Time...: UNKNOWN

Cycles.: UNKNOWN Location .: CDG

Removal Date....: 14FEB19

Removal Type....: UNSCHEDULED Removal Reason...: TEST AND REPAIR

Condition as received....:

Work requested....: REPAIR

Warranty requested.:

Warranty Accepted.:

Shop Finding....: REPAIR REQUIRED FOLLOWING AJW RO: NUMBER T32203 DATED .

Confirmation of Removal.: FAILURE FOUND - REMOVAL REASON CONFIRMED

Repair Text....: WORK PERFORMED FOLLOWING AJW RO: NUMBER T32203 DATED 14FEB20 SEE CSDR NUMBER 77/54/C01361 REV01 CAT.A DATED 19JUN2019.

Documentation Reference.: BOEING

CMM 71-11-23 REV22

Modif/Remarks....: WORK PERFORMED FOLLOWING AJW RO: NUMBER T32203 DATED 14FEB2019 AND WORKSCOPE NUMBER AJI-07032019 REVOO DATED 13MAR2019. SEE CSDR NUMBER 77/54/C01361 REVOL CAT.A DATED 19JUN2019.

New Part Number...:

New Serial Number.:

Parts replaced : SEE PART LIST

Issue Date...: 21JUN19

Name

OMAT

Repair Shop

JUL 15

Revision date.: 21JUN19

Signed :

AF CONTROLE

CDG HE02

Page 1/2

AIRFRANCE /

45 rue de PARIS F-95747 ROISSY CHARLES DE GAULLE CEDEX

FAX : 33 (0) 141 560 165

TLX : RSYLOAF

WORK SHOP REPORT

No: 8463500

-- Parts replaced --

Part Number / Alt

Description

QTY

ΠI

BACB30VF08K3 NAS1200M5-7P

BOLT RIVET

50 100

EA GM

Issue Date....: 21JUN19

Revision date.: 21JUN19

Repair Shop

CDG HE02

Page 2/2

NON- INCIDENT STATEMENT



Date:

16 January, 2019

To:

Altavair

Non Incident / Non Accident Statement - Airframe

Aircraft

Registration	MSN	Туре	TSN	CSN	
A6-LRC	36302	B777-200LR	44123:53	4796	

To whom it may concern:

During operation by Etihad Airways from 06-Febraury-2014 until 16-January-2019 of the above Aircraft, we hereby confirm that the Aircraft:

- Has not been involved in any accident or serious incident as defined in Chapter 1 of ICAO Annex 13
- Has not been obtained from nor operated by any government or military source.
- ▶ Has not been subjected to severe stress or heat outside of normal operation and maintenance.
- Have not been submerged in salt water or otherwise exposed to corrosive agents outside of normal operation and maintenance.

Approved by:
Najeeb Hassan Ansari
B777 Fleet Management Manager
+971 2 511 5459

NAnsari@etihad.ae

Prepared by:
Renz Estiva
Technical Records Officer
+971 2 511 5324
REstiva@etihad.ae



TRACE



Air Salvage International, ID: 18-074-12

Part No: 314W1400-9 Desc: R/H INLET COWL

Serial No: 001114

Qty: 1

Notes: 100-0961, 100-0963, 100-1086

As removed from B777 MSN 36302

Registration A6-LRC On 30/01/2019 12:36:33

ASI 3

ETIHAD AIRWAYS

FLEET ENGINEERING OCCM TIME STATUS

Unit TSN:	44123:53	Unit Name:	A6-LRC
Unit CSN:	4796	Item:	B777-200LR
Unit DSN:	4231	Serial:	36302
Unit MSN:	36302	Status AS AT:	14-Jan-19



ATA	Item Desc	Item Number	Serial Number	Position	Installed Date	Installed Aircraft TSN	Installed Aircraft CSN	COMP	COMP
57-43	SLAT NO 1 LE	114W5110-5	000631	SLAT NO 1 LE_1	24-Jul-07	0	0	44123	4796
57-43	SLAT NO 4 LE	114W4140-107	000721	SLAT NO 4 LE_4	9-Jun-11	15531	1539	40945	4960
57-63	AY, COVE LIP DOOR INSTL WING	113W6100-17	WB143	FLAPERON ASSY_LH	24-Jul-07	0	0	44123	4796
57-63	AY, COVE LIP DOOR INSTL WING	113W6100-18	WB143	FLAPERON ASSY_RH	24-Jul-07	0	0	44123	4796
57-63	AILERON ASSEMBLY	113W7003-109	WD569	AILERON_LH	24-Jul-07	0	0	44123	4796
57-63	AILERON ASSEMBLY	113W7003-110	WD569	AILERON_RH	24-Jul-07	0	0	44123	4796
71-00	ACTUATOR	TY1898-51	02652	PDOS ACTUATOR_RH2	24-Jul-07	0	0	44123	4796
71-00	ACTUATOR ASSY T R PDOS	TY1904-50	6463	ACTUATOR ASSY-T/R PDOS_LF1	24-Jul-07	0	0	44123	4796
71-00	ACTUATOR ASSY T R PDOS	TY1904-50	6506	ACTUATOR ASSY-T/R PDOS_RF2	24-Jul-07	0	0	44123	4796
71-00	ACTUATOR ASSY T R PDOS	TY1904-50	6509	ACTUATOR ASSY-T/R PDOS_RF1	24-Jul-07	0	0	44123	4796
71-00	ACTUATOR ASSY T R PDOS	TY1904-50	6528	ACTUATOR ASSY-T/R PDOS_RA2	24-Jul-07	0	0	44123	4796
71-00	ACTUATOR ASSY T R PDOS	TY1904-50	6530	ACTUATOR ASSY-T/R PDOS_LF2	24-Jul-07	0	0	44123	4795
71-00	ACTUATOR ASSY T R PDOS	TY1904-50	6533	ACTUATOR ASSY-T/R PDOS_LA2	24-Jul-07	0	0	44123	4796
71-00	ACTUATOR ASSY T R PDOS	TY1904-50	6566	ACTUATOR ASSY-T/R PDOS_LA1	24-Jul-07	0	0	44123	4796
71-00	ACTUATOR ASSY TIR PDOS	TY1904-50	6569	ACTUATOR ASSY-T/R PDOS_RA1	24-Jul-07	0	٥	44123	4796
71-00	COWL INLET	314W1400-9	001114	COWL INLET_RH	10-Oct-18	44117	4793	35213	4415
71-00	COWL INLET	314W1400-9	000865	COWL INLET_LH	10-Oct-18	44117	4793	36514	4043
71-00	ACTUATOR	TY1898-51	02585	PDOS ACTUATOR_RH1	3-Oct-13	24246	2890	45121	4827
71-00	PDOS ACTUATOR	TY1898-60	04122	PDOS ACTUATOR_LH1	5-Apr-17	39797	4420	4325	376
71-00	PDOS ACTUATOR	TY1898-60	05429	PDOS ACTUATOR_LH2	5-Apr-17	39797	4420	4325	376
73-00	UNIT ASSY ENG DATA	816420-3	2007027084	UNIT ASSY ENG DATA_RH	24-Jul-07	0	0	44123	4796
73-00	UNIT ASSY ENG DATA	816420-3	2007030458	UNIT ASSY ENG DATA_LH	24-Jul-07	0	0	44123	4796
76-00	SERVO	304RAA1	1456	SERVO MOTOR_LH	24-Jul-07	D	0	44123	4796
76-00	SERVO	304RAA1	1476	SERVO MOTOR_RH	24-Jul-07	0	0	44123	4796
77-00	AIRBORNE VIBRATION MONITR	8KE143GAD1	3715H	AIRBORNE VIBRATION MONITR_LH	24-Jul-07	0	٥	44123	4796
77-00	AIRBORNE VIBRATION MONITR	BKE143GAD1	3839H	AIRBORNE VIBRATION MONITR_RH	24-Jul-07	0	0	44123	4796





TARMAC ARAGON CTRA A-1512 DE ALBARRACIN KM6 44396 Teruel - Spain VAT # ES B-44241933

WORK ORDER SCAN REF: 59154_531_1

ROUTINE

page 1 of 3

Print date 12/11/2018 10:39

Order Ref.: WO- 59154 Title RECORD INLET COWL DETAILS ON AND OFF Y/Ref Date 12/11/2018 10:38:28 ATA 7100 POWER PLANT AIRCRAFT COMPONENT Mandatory (Y/N) Y ETOPS (Y/N) A6-LRC Reg. WP-531 B777-237LR Type GE90-110B MNT.PROG: NEXT DUE MANAGED BY THE OPERATOR MSN 36302 Hector GARCIA eSigned Prepared by LIMIT FH Received by FC Date **DEFECT / REQUESTED WORK** TASK PERFORMED After engine replacement, record PN & SN on and INLET COXIL OFF: PN & SN off of inlet cowls. Pos #1. PN: 314W1400-9 SN: 684 Pos #2. PN: 314W1400-9 SAL : 524 INLET COWL ON: Pos #1. PN: 314W1400-9 SN: 865 Pos #2. PN: 314W1400-9 SN: 1114 ALNOTE: ENGINE #11 ESN 906288 INSTALLED ON 2 OCT 18 ENDINE #12 ESN 906428 INSTALLED ON 27 SEP 18 note: see next page if there is not enough room here C/W Engineer ID hh:mm **Engineer ID** hh:mm DEF NRC | Complied With NON ROUTINE Deferred (NRC possible) #1 #5 Ref: Ref: #2 #6 VALID UNTIL P/N - DESC #7 SIN #3 P/N - DESC SIN VALID UNTIL #8 COMPONENT REMOVED DESC COMPONENT INSTALLED DESC S/N POS POS P/N S/N RELEASE REF NOT REQUIRED SIGN/STAMP DUPLICATE **AUTH No** DATE TRIG We certify that a duplicate safety inspection has been carried out and the identified control system of the aircraft / component functions correctly, and in respect of the maintenance performed, the control system is assembled and locked correctly. CUT CERTIFICATION TRIG reserved for administration DATE & HOUR 21100110 PART-145 App No URE 145 1203 PLACE TAE SIGN/STAMP 085/



WORK ORDER

Reference: WO- 59154

Title RECORD INLET COWL DETAILS ON AND OFF

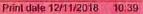
12/11/2018 10:38:28

ATA

7100

POWER PLANT

COMPLAINT / REQUESTED WORK (FULL TEXT)	page 2 of 3				
COMPLAINT / REQUESTED WORK (FULL TEXT)	COMPLETED TASK & RESULTS DATE / ID / SIGN				
After engine replacement, record PN & SN on and PN & SN off of inlet cowls.					





TARMAC ARAGON CTRA A-1512 DE ALBARRACIN KM6 44396 Teruel - Spain VAT # ES B-44241933

WORK ORDER

DUTINE

page 3 of 3

Order Ref.: WO-59154

Title RECORD INLET COWL DETAILS ON AND OFF

COMPONENT REMOVAL

P/N

NIL

DESCRIPTION

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REASON

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COMPONENT INSTALLATION

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MATERIAL ISSUED

QUANTITY P/N

DESCRIPTION

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IPC



CARRY FORWARD SHEET (ENGINE/APU REMOVAL)

GE90-1108/GO3 39360 / 5414 17-00 963 ATL/DDLT-Defect Reference 12 SEP 7018 SET 7018 ATL/DDLT-Defect Reference 12 SEP 7018 SET 7018 ATL/DDLT-Defect Reference 12 SEP 7018 ATL/D	<u>E</u> n	ngine/APU Part No. TSN	I/CSN	Visit/V	Vorkorder No.	
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Aircraft Readiness Log

Pgm Id/Model # 777 /FFX

Line Number: 939
Airplane Identification
W0939/WF131/W7776

Page 189 Customer ETIHAD AIRWAYS

	Zone MPD	Part Number Part Description Vendor Name	Used On/Alt Anthority Cage Code/SRC/ATA/LL/FV/AD	Qty	Serial Number	Miscellaneous Location X-Station/Y-BL/Z-Wtr
	ZA2004 414	314W1086-8 FAN COWL RIGHT HAND BOEING CO THE	314W1086/ 81205/SFE/71/ / /	1	ØØ1Ø28	
	ZB2002 423	314W1086-9 FAN COWL LEFT HAND BOEING CO THE	314W1086/ 81205/SFE/71/ / /	1	ØØ1Ø27	
	ZA1019 412	314W1400-9 INLET ASSY BOEING CO TER	314W1400/ 81205/SFE/71/ / /	1	001114	
	ZB1019 422	314W140@-9 INLET ASSY BOEING CO THE	314W1400/ 81205/SFE/71/ / /	1	ØØ1115	* .
×	ZA2006 415	315W1298-23 FAN DUCT COWL BOEING CO THE	315W1298/ 81205/SFE/71/ / /	1	ØØ1Ø68	
	ZA2011 416	315W1298-24 FAN DUCT COWL BOEING CO THE	315W1298/ 81205/SFE/71/ / /	1	001044	
	ZB2006 425	315W1298-25 FAN DUCT COWL BOEING CO THE	315W1298/ 81205/SFE/71/ / /	1	ØØ1Ø35	
	ZB2011 426	315W1298-26 FAN DUCT COWL BOEING CO THE	315W1298/ 81205/SFE/71/ / /	1	ØØ1Ø45	*

R9D5 \(\display \)

6	الإنجال AIRWAYS	AIRCRAFT ST	RUCTU	RE REP	AIR SUI	MMARY		DATE:	6-Jan-19
	Aircraft Type:	B777-200LR		Aircraft Registration:		A6 - LRC	Aircraft MSN:		36302
S. No.	SDRR No.	Description	Repair Status	Classification	Repair Date	References	NRC / WO Ref. No.:	Inspection	T-Defect / R-MR / Work Order
15	B7-54-LRC-0015	ITEM DELETED. REMOVED FROM AIRCRAFT.					11		
16	B7-53-LRC-0016	DENT WITH SCRACTH ON RH AFT BELLY FAIRING PANEL 198UR OUTER SKIN, 2.25" FROM AFT EDGE OF PANEL. DIMENSION 1.75" X 0.5".	PERMANENT	MINOR	20-Feb-15	SRM 53-00-70-1A-0, ALLOWABLE DAMAGE GENERAL Para.2.A (b)	053	NO	
17	B777-36302-55-0017	Minor Dent on Left Horizontal Stabilizer Leading Edge Mid-Section at STA 330.0 and 10.0" FWD of Leading Edge Lower Aft Edge. Dimensions: Depth Y=0.028mm, Length L=1.30", Width W=0.875", W/Y=31.25	PERMANENT	MINOR	21-Oct-15	SRM 55-10-01-1A-3 FIG 103, DETAIL D	3004	NO	
18	B777-36302-54-0018	ITEM DELETED. REMOVED FROM AIRCRAFT.							
19	B777-36302-53-0019	Scratch mark AFT of AFT cargo door Fuselage Skin STA 1748 - STA 1769, STR 37R-38R. Dimensions: L = 1.75", W = 1.0" materal lost 0.001", original thickness 0.250".	PERMANENT	MINOR	23-Dec-15	SRM 53-00-01-1A-1 FG 103, DETAIL D	032	NO	
20	B777-36302-57-0020	RH I/B Trailing edge flap PN 113W2700-14, SN 000658 found with damage on upper surface with Disbond size 13" x 13".	PERMANENT	MINOR	23-Dec-15	SRM 57-53-01, Repair 3, SRM 51-70-05	028	NO	
21	B777-36302-53-0021	RH BELLY FAIRING PANEL 198WR FOUND WITH DISBOND DAMAGE SIZE 3.5" X 2.25" APPROXIMATELY 7" INCHES FROM FORWADR EDGE OF THE PANEL.	PERMANENT	MINOR	16-Aug-16	SRM 53-00-70-2R, TABLE 201, SRM 51-70- 04-2R3	031	NO	
22	B777-36302-54-0022 Rev00	ITEM DELETED. REMOVED FROM AIRCRAFT.							
23	B777-36302-53-0023 Rev00	Scratch Mark Aft of L2 pax door cutout, LH Fuselage Skin between STA 788.5 - STA 804 and STR 22L-23L, Reworked area L=2", W=0.5" Loss of material = 0.011".	PERMANENT CAT A	MINOR	2-Aug-17	SRM 53-00-01-1A-1 Table A Rev 74 dtd May 15/17	ATL 11402115 Visit # 1329655	NO	
24	B777-36302-53-0024 Rev00	AFT cargo door cut-out upper aft conner with gouge between STGR 28R and 29R. Damage blended out with dimensions: L=3", W= 1", Original Skin Thickness = 0.248", Remaining Skin Thickness = 0.241"	PERMANENT CAT A	MINOR	4-Apr-17	SRM 53-00-01-1A-1 Table A Rev 73 dtd Jan 15/17	NRC 036 Visit # 1369918	NO	
25	B7-540000-6865	RH ENGINE INLET COWL PN 314W1400-9, SN 001114 LIP SKIN FOUND WITH DENT AT 1.0 O' CLOCK POSITION. DIMENSIONS: A = 1.5", Y = 0.035". A/Y = 42.	PERMANENT CAT A	MINOR	21-Sep-11	SRM 54-13-01-1A-1, Figure 103, Detail E	Visit # 199938, Index # 38 Defect # A- 1516503	NO	
26	(Inlet Cowl-314W14009) (001114-01 Rev.01)	RH ENGINE INLET COWL PN 314W1400-9, SN 001114 LIP SKIN FOUND WITH DENT AT 5.0 - 6.0 O' CLOCK POSITION. DIMENSIONS: L = 2.25", W = 1.0", Depth = 0.040".	PERMANENT CAT A	MINOR	15-Mar-18	SRM 54-13-01-1A-1, Figure 103, Detail E	Visit # 1591645 EWI EY_B777- 54-0274_EWI	NO	

	الإتجالة AIRWAYS	AIRCRAFT STRUCTURE REPAIR SUMMARY							6-Jan-19
	Aircraft Type:	B777-200LR	Aircraft Registration:		A6 - LRC		Aircraft MSN:	36302	
S. No.	SDRR No.	Description	Repair Status	Classification	Repair Date	References	NRC / WO Ref. No.:	Inspection	T-Defect / R-MR / Work Order
27	B7-LRE-0009)	INLET COWL PN 314W1400-9, SN 001114 FOUND WITH EXTENSIVE DAMAGE ON UPPER OUTER BAREL UPPER SURFACE DUE TO SLING FAILURE WHILE FITTMENT ON AIRPLANE MSN 34599. DUE TO EXTENSIVE DAMAGE OUTER BAREL REPLACED. LIP SKIN ALSO FOUND WITH MULTIPLE BLENDOUTS AT APPROVIMATELY 10 - 11 O'CLOCK POSITION - QTY 7 - DAMAGE "A1-A7" AND BETWEEN 12 AND 1 O'CLOCK POSITION - QTY 1. BLENDOUT DETAILS ARE AS FOLLOWS: Size(mm): 34 x 14, material loss = 0.002" Damage "A2" Size(mm): 36 x 19, material loss = 0.002" Damage "A3" Size(mm): 32 x 10, material loss = 0.001" Damage "A5" Size(mm): 13 x 10, material loss = 0.001" Damage "A6" Size(mm): 11 x 10, material loss = 0.001" Damage "A7" Size(mm): 17 x 9, material loss = 0.001" Damage at 12 - 1 o'clock Size(mm): 28 x 9, material loss = 0.001"	PERMANENT CAT A	MINOR	5-Apr-16	AMM 71-11-01 SRM 54-13-01-1A-1, Figure 103, Table A, Detail A	Visit # 882560, Shop Visit# 791349, RFC R001 NRC # 001 AUH11344469 AUH10209546	NO	
28	B777-36304-54-0015	RH ENGINE INLET COWL PN 314W1400-9, SN 001114 LIP SKIN FOUND WITH SURFACE CORROSION IN THE AREA FROM 10 O'CLOCK - 2 O'CLOCK. SURFACE CORROSION BLENDED WITH REWORK SIZE 14.6" X 11", ORIGINAL LIP SKIN THICKNESS = 0.077", REMAINING THICKNESS = 0.074".	PERMANENT CAT A	MINOR	10-Apr-16	SRM 54-13-01-1A-1, Figure 103, Detail A	Visit # 1077799, NRC # 4022 AUH14771999	NO	
29	B777-36303-54-0006	LH ENGINE INLET COWL (P/N: 314W1400-9, S/N: 000865) LIP SKIN AT 12 O' CLOCK POSITION FOUND WITH DENT. DENT SIZE: L = 2.0", W = 1.5", DEPTH = 0.039".	PERMANENT CAT A	MINOR	1-Dec-15	SRM 54-13-01-1A-1, Figure 103, TABLE "A" Detail "E"	Visit # 1059475, NRC # 043 AUH13809387	NO	
30	B777-36303-54-0010	LH ENGINE INLET COWL (P/N: 314W1400-9, S/N: 000865) LIP SKIN AT 10 O' CLOCK POSITION FOUND WITH SCRATCH MARK. SCRATCH BLENDED WITH SIZE: L = 5.125", W = 0.250", MATERIAL LOSS = 0.001".	PERMANENT CAT A	MINOR	14-Mar-16	SRM 54-13-01-1A-1, Figure 103, TABLE "A" Detail "A"	Visit # 1058236, NRC # 4023 AUH14570865	NO	



B7-540000-6865

ENGINEERING SERVICES'> ADAT/TS/8394 Issue 04 (March 2011)

Structural Damage Repair Report



MSN:	34599		•	Date: 16 May 201	3	Index No: 38	
Aircraft Type:	B777-	300ER	•	SDRR, No: B7-54	000	0-6865	
Aircraft Reg'n: A6-ETC			Structural Classification: PRIMARY				
Aircraft TSN:	27780	Aircraft CSN: 5269		Visit: 199938		WO: N/A	

Damaged Component(s)

Description:

#1 ENGINE INLET COWL LIP SKIN AT 1 O' CLOCK POSITION - DENT

Part Number:

314W1400-9

Serial No: 1114

Damage Caused by:

F.O.D

SRM / CMM Ref:

B777-300 SRM 54-13-01-1A-1

Location of damage

Body Station/ Frame:

STGR/BL/WL:

RIBS:

Position:

At 1 O' Clock Position

Side: LHS

Defect Description (Type of damage, Dimension)

WITH REFERENCE TO THE DDL A-1516503, DURING TRANSIT A DENT REPORTED ON # 1 ENGINE INLET COWL LIP SKIN AT 1 O' CLOCK POSITION.

DENT EVALUATION CARRIED OUT AND FOUND WITHIN ALLWOABLE DAMAGE LIMITS IAW SRM 54-13-01-1A-1 FIGURE 101 & FIGURE 103, DETAIL 'E'.

Dimension: A = 1.50", Y = 0.035", AVY = 42

Method of inspection:

H.F.E.C + VISUAL

Repair exists in near vicinity:

YES

Distance between repairs:

*Sketch/ Drawing No.:

N/A

Action / Rectification

Permanent:

DENT FOUND WITHIN ALLWOABLE DAMAGE LIMITS IAW SRM 54-13-01-1A-1

FIGURE 101 & FIGURE 103 and DETAIL 'E'.

DENT LEFT AS IS PERMANENT AND NO ADDITIONAL INSPECTION REQUIRED.

Date: 21 Sep 2011

Repair Approved by:

(ADAT Repair Scheme, DDO, SRM, SB, other) -Specify SRM/CMM Rev. & Date)

B777 SRM 54-13-01-1A-1, Allowable Damage 1, FIG 101 & 103, DETAIL 'E'

Repair is: PERMANENT

Repair Installation Date: 21 Sep 2011

Inspection Threshold:

NO ADDITIONAL REQUIREMENTS.

Applicable Reference(s):

B777 SRM 54-13-01-1A-1, Allowable Damage 1, FIG 101 & 103, DETAIL 'E'

DDL A-1516503

Prepared by: NARAYANAN KUTTY

Staff No.: 14364

Signature : ELECTRONICALLY GENERATED DOCUMENT NO SIGNATURE REQUIRED

* Where Applicable.

Date: 16 May 2013



ENGINEERING SERVICES > ADAT/TS/8394 Issue 04 (March 2011)

Structural Damage Repair Report



AFUD, INCLASSION TECHNICLOS E

MSN:	34599	Date: 16 May 2013 Index No: 38
Aircraft Type:	B777-300ER	SDRR No: B7-540000-6865
Aircraft Reg'n:	A6-ETC	Structural Classification: PRIMARY
Aircraft TSN:	27780 Aircraft CSN : 5269	Visit: 199938 WO: N/A

ACTION / RECTIFICATION:

DENT FOUND WITHIN ALLWOABLE DAMAGE LIMITS IAW SRM 54-13-01-1A-1 FIGURE 101 & FIGURE 103 and DETAIL 'E'.

DENT LEFT AS IS PERMANENT AND NO ADDITIONAL INSPECTION IS REQUIRED.



Report Generated Date: 3/6/2013 14:14:43 PM

Deferred Defect History Report

Page 1 of 1

Defect Descri	ption:			ر				
Date/Time Raised	Defect	Aircraft Regn.	Defect Type /Defect #	Status	ATA	Organization / Dept	Raised By Name/Staff #	NR#
21-09-2011 11:58:17	#1 ENG HAS A DENT ON INLET COWL LP AT 1 O CLOCK POSN	A6-ETC	A-1516503	Closed	54-12	AUH / ETIHAD ABU DHABI LINE	Ey Auh Engineer / EY-00000	1330710
Deferral Histo	DATE TO THE THE PARTY OF THE P		· · · · · · · · · · · · · · · · · · ·		AND THE STREET			l Santo isti e e
Date &Time	Deferral Details					Organization / Dept	Deferred By Name/Staff #	AUTH#
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Ops Steps	WO Operation Description Number/Steps				Action taken		Staff	Date &Time
Final Action:	にはいる。		Salan to the the transfer of the transfer that the transfer	or not religible	*** (Page -		The state of the s	
Date	Final Action		· · · · · · · · · · · · · · · · · · ·		Ī	Organization / Dept	Closed by Name / Staff #	AUTH#
21-09-2011 11:58	DENT FOUND WITHIN LIMITS IAW SRM 54-13-01-1A-1 FIG 101 AND FIG 103 DETAIL AND A = 0.035* A/Y = 42 DENT AND BUCKLE CHART UPDATED					AUH/ETIHAD ABU DHABI LINE	Mian Altaf Hussain / EY-20142	B139
Material Requ	irements				<u> </u>			
Part Number	Description			•		Reg.Qty.	Qty. Available	U.O.M
Resource Rec	quirements):	一种是对于一种工作的	學的特殊學科學	and the state of t			CONTRACTOR OF THE PROPERTY OF	

V.ISIT# 199938

Part NO: 314W 1400-9 S.NO: 1114 35

SDRJ # B7-540000-6865

Inlet Cowl-314W14009-001114-01 Rev01



Structural Damage/Repair - Record

Part I. Aircraf	t/Component Dar	nage Details (to be fil	led out by A	&C/STR Heavy/Light/L	ine Mainten	ance Organization)	
Aircraft Type/MSN/Reg.			SDRR No.	INLET COWL-314	197/JUL 20-5 U.S.	001114-01	
Aircraft / Component CS				Mgt. Control No.) Component TSN: 39	762:22 FI	Rev. No.: 01	
	COWL IX			tw 1400-9	SN:	00 1114	
	91645			No: CARD SEQ 7	ATA:	54	
Description of Defect: (Report any previous repair in the area) Indicate Damage Type (crack, dent, scratch, delam / disbond, corroded etc) Indicate Damage Dimension (Length, Width, Max Depth, Area, Diameter, Original Thickness, Max Material Loss) Indicate Damage Location/Orientation [exact position of damage with distances to nearest Frame/Station, Stringer or adjacent landmark: edge of part, ribs, stiffeners latches/hinges, panels, radial (o'clock or degree) position, orientation (view looking fwd/aft)] INLET COWL PM 314W 1400-9, SM 001114 LIP SKIM-EXISTIMG DENT DAMAGE REASSESSMENT. DENT LOCATION BETWEEN 5 delack MID 6 o'clock							
Inspection Reference: Was damage found during SB/EO/AMP/MPD? No, Audit/Incident/Finding by Chance/Others: Yes, SB/EO/EWI No.: EY - B777-54-0274-EWI MPD/AMP/Task No.: AVH 19767941 (W.O)							
Cause of Damage: Environment Lavatory/Galley Spill Chemical Spill Internal Leakage Wet Insulation Blanket Temporary Repair Replacement Bird Strike Accidental Damage Blocked Drain Lightning Strike Unknown Others (pls. specify)							
Part II. D	amage Assessm	ent (to be filled out b	y A&C or S	TR Heavy/Light/Line Ma	intenance C	Organization)	
Damage within Allowab	le/Repairable Lim	its? Yes No, C	Contact Eng	g, Technical Request N	o.:	No, Replaced	
Repair Approved by SRI (Specify Chapter Page Bloc SRM: 54 - 13 DETAIL SRI/IIR/SSI (if any):	ck, Para, Figure, Dia 3 1 - 1 A -		(a.)	Repair Approved by: F Repair Classification:	RDAS, FAA, JOR	RDR, Part21 DOA	
Description of Repair:							
NO DIMENS	SIONS PI	opagation.	No 1	repeat inspec	tion 15	DEPTH = 0.040 required As per	
SRM 54	1-13-01	1-1A-1 F	76,10	3 DETAIL "	E".		
NO REPE	AT INS	PERTION &	EQUI	3 DETAIL " RED AS PER	ABO	IE SEM.	
Monitoring Defect No.:	Weight Change	(kg, weight cha	inge);	(kg-m (in), mom	ent change)	No (less than 0.5 kg)	
Instruction for Continue	d Airworthiness:			Repair Category:		Corrosion Level:	
Ins Threshold:				A Permanent		□1 □2 □3 ☑N/A	
Ins Interval:				B Permanent with	inspection	D)Alidonrood	
Ins Method:				C Temporary		Widespread	
Repair Life Limitation:	EID:	ADDROVALISTAN	ID NO :	MAINTENANCE ODG 1	MIZATION	Local	
HAMIO 2003		APPROVAL/STAM	Section Deposits	MAINTENANCE ORGA	Wordship and Are Charles III	1 5 MAR 2018	
Click to Pri	nt	Email this for	m to EY Fle	et Management Team, o	lick the apr	olicable button below:	
Print Form		A320FleetMgt@		A380FleetMgt@et		B787FleetMgt@etihad.ae	
	A3304			P777ElectMat@ot	ihad as		



Structural Damage/Repair - Record

Aircraft Type/MSN/Reg.: B77	7-300ER/36304/A	6-LRE	SDRR No	.: INLET COWL-	314W14009-001114-01	Rev. No.: 01
Part III.	Evaluation and Rev	riew (to be fill	led-out by E	Y Fleet Management	Engineering)	
		Damage/	Repair Fi	gure		
Attach extracted reference ma	nual figures, sketch	and/or genera	al and detail	view photos.		
	v.					
Damage within Allowable Limits?	Repair with	in SRM /AMM	I/CMM?		Corrosion Level:	No.
XYes, Ref. No.: SRM 54-13-01-1A-1 Fig 10		123	⊠ N/A Local			
Detail E		Structure Classification	ı;			
No		PRIMARY SEC	CONDARY			
Instruction for Continued Airwor	thiness:		Re	pair Classification:	Repair Category:	ONDART
Ins Threshold: NA				MINOR	A Permanent	
Ins Interval: NA			1	Z militore	B Permanent with in	enection
Ins Method: NA]	MAJOR	C Temporary	apectori
Repair Life Limitation: NA Remarks:						
Performed dent re-assessmer found no damage propagation Carried out evaluation of re-as as per SRM 54-13-01-1A-1 Fig. This SDRR INLET COWL-314 T-6726368 now closed	or dimension cha ssessment and fou g. 103 sheet 7 Det	nged ınd within All ail E Rev 76	lowable Da dtd 15 Jar	mage Limits with no		
REVIEWED BY / STAFF ID:	SIGNATURE:	DATE:	VERI	FIED BY / STAFF ID:	SIGNATURE	DATE:
Emmanuel Sta Teresa/ 10482	- Elgha	Mar 21, 2018		Anton Dukov	Alley	Mar 21, 2018
Part IV. Ad	ditional / Definitive	Action (to be	e filled-out b	y EY Fleet Managem	ent Engineering)	
Permanent Action / Repair Replacement Performed permanent repair Common Performed Permanent repair Common Permanent		54-13-01-14	4-1 Fig 103	Detail E		
Definitive Approval Ref. No.:				-		
REVIEWED BY / STAFF ID:	SIGNATURE:	DATE:	VERIF	FIED BY / STAFF ID:	SIGNATURE/	DATE:
Emmanuel Sta Teresa/ 10482	12	Jan 31, 2018		Anton Dukov	(A) but	Feb 4, 2018

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QA190 Rev 1 Dec 2013

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QA190 Rev 1 Dec 2013

Issue Date: 15 May 2012

1. Applicability

A. This subject gives the allowable damage limits for the Inlet Cowl Skin for the GE90-100 Series Engine shown in Figure 101/ALLOWABLE DAMAGE 1.

Figure 101. Allowable Damage - Inlet Cowl Skin - GE90-100 Series Engine

Sheet 1

2. General

A. Do an inspection of the damaged area to find the dimension of the damage. Boeing recommends that you use an instrumented Non-Destructive Inspection (NDI) procedure. Refer to NDT Part 1, 51-01-00 for instruction on how to select an inspection procedure.

NOTE: Other inspection methods that have been examined and found satisfactory by the operator can be used.

- B. Refer to Figure 102/ALLOWABLE DAMAGE 1 for the definitions of the face-sheets of a honeycomb panel, and size definitions of the damage.
- C. After the damage to the aluminum parts is removed:
 - (1) Apply a chemical conversion coating to the reworked areas. Refer to 51-20-01, GENERAL.
- D. For damages to the composite panels (Acoustic panel and Outer panel), remove the moisture from the damaged area. Use a heat source with a maximum of 125°F (52°C) to remove the moisture from the honeycomb cells. Refer to 51-70-04, REPAIR GENERAL for damage removal and moisture removal procedures.
- E. Seal all permitted damage areas of the composite panels with one of the methods that follow. Refer to Figure 103/ALLOWABLE DAMAGE 1 Table B or Table C for the inspection and sealing requirements:
 - (1) Temporary Seal:
 - (a) Seal the damage with aluminum foil tape (speed tape) 3M-Y436 or the equivalent.
 - (b) Keep a record of the location and do the inspection as necessary. Replace the aluminum foil tape if you find deterioration.
 - (c) Repair or seal permanently as given in Figure 103/ALLOWABLE DAMAGE 1 Table B or Table C.
 - (2) Permanent Seal:
 - (a) BMS 8-207 epoxy resin as given in 51-70-08, REPAIR 1.
 - (b) BMS 5-92, Type I or Type III adhesive. Cure the BMS 5-92, Type I or Type III adhesive at 75°F (24°C) for 24 hours.
- F. For the damaged areas of the Acoustic panel and Outer panel where a permanent seal was applied do one of the following steps:
 - (1) Apply one layer of BMS 10-79, Type III primer on the outer face (tool-side face-sheet) of the outer panel. Refer to SOPM 20-44-04.
 - (2) Apply one layer of BMS 10-103, Type I primer on the inner faces (bag-side face-sheet) of the outer panel. Refer to SOPM 20-44-04.
 - (3) Apply two layers of BMS 10-103, Type III primer on the inner face (bag-side face-sheet) of the acoustic panel. Refer to SOPM 20-44-04.
 - (4) Apply one layer of aluminized epoxy primer BAC 5755 Type 10 on the perforated face sheet (tool-side face-sheet) of the acoustic panel.
- G. Apply a finish to the reworked areas as given in AMM PAGEBLOCK 51-21-10/701.

Figure 102. Allowable Damage Definitions

Sheet 1

3. References

Selected 205



Issue Date: 15 May 2012

Reference	Title
51-10-01, GENERAL	Aerodynamic Smoothness Requirements
51-10-02, GENERAL	Inspection and Removal of Damage
51-20-01, GENERAL	Protective Treatment - Metal Structure
51-30-03, GENERAL	Sources For Non-Metallic Repair Materials
51-30-05, GENERAL	Equipment and Tools For Repairs
51-70-04, REPAIR GENERAL	Repair Procedures for Wet Layup Materials
51-70-08, REPAIR 1	Resin Sweep-Fair Procedures
AMM 51-21-10 P/B 701	DECORATIVE EXTERIOR PAINT SYSTEM - CLEANING/PAINTING
AMM 71-11-01	INLET COWL
AMM 71-11-01 P/B 201	INLET COWL - MAINTENANCE PRACTICES
BAC 5755	Application of Interior Decorative Finishes
NDT Part 1, 51-01-00	Orientation and Preparation for NDT Tests
SOPM 20-41-01	Decoding Table For Boeing Finish Codes
SOPM 20-44-04	Application of Urethane Compatible Primer

4. Allowable Damage Limits

A. Refer to Figure 103/ALLOWABLE DAMAGE 1 for the allowable damage limits of the Inlet Cowl Skin.

Figure 103. Allowable Damage Limits

Sheet 1

Sheet 2

Sheet 3

Sheet 4

Sheet 5

Sheet 6

Sheet 7

Sheet 8

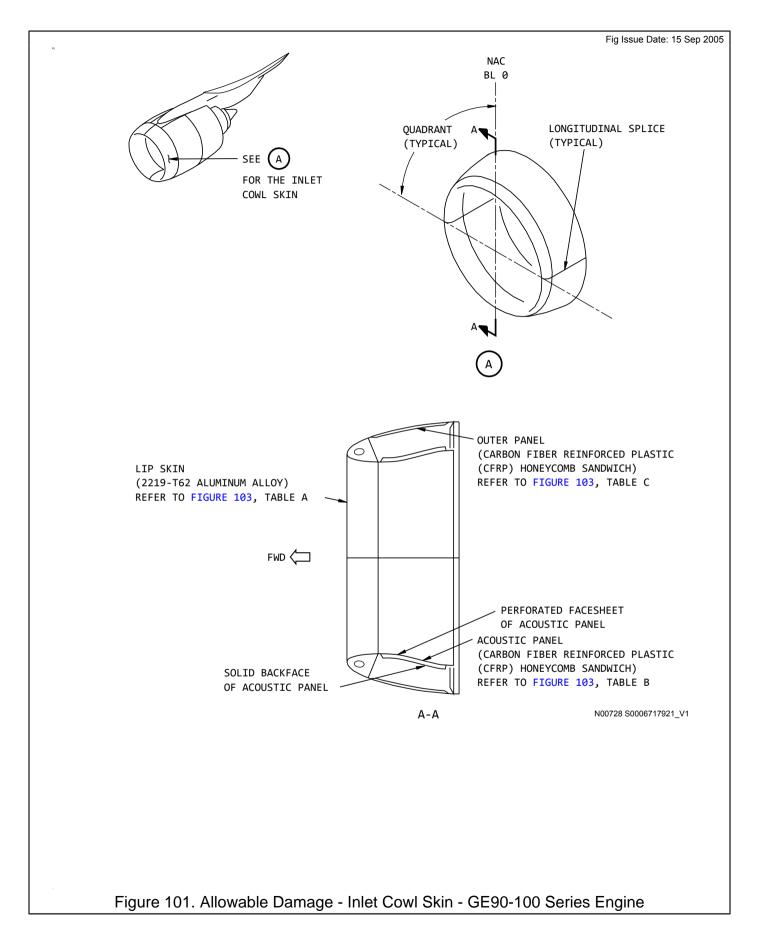
Sheet 9

Sheet 10

Sheet 11



Issue Date: 15 May 2012





Issue Date: 15 May 2012

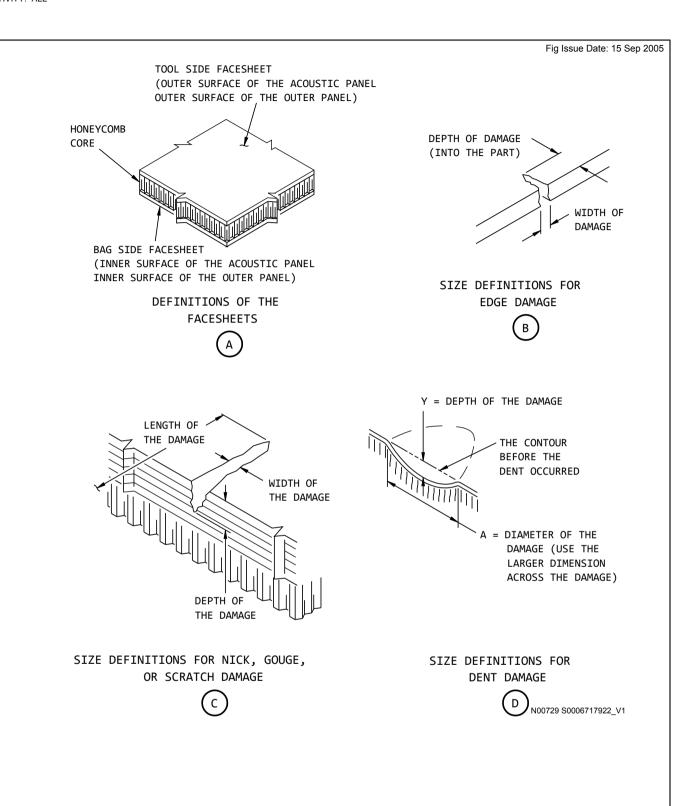


Figure 102. Allowable Damage Definitions



Issue Date: 15 May 2012

				Fig Issue Date: 15 Se	ep 2016
	ALLOWABLE D	AMAGE LIMITS - INLE	T COWL LIP SKIN		
DESCRIPTION	NICKS, GOUGES AND SCRATCHES	DENTS	CRACKS	HOLES AND PUNCTURES	
LEADING EDGE SKIN (ALUMINUM)	SEE DETAILS A, B, C, AND D	SEE DETAIL E - DAMAGE MINIMUM SPACING 15.0 INCH	- FOR CRACKS AT THE EDGE SEE DETAILS B, C, AND D - FOR SURFACE CRACKS SEE HOLES AND PUNCTURES	- MAXIMUM 0.25 INCH (6.35 mm) DIAMETER - DAMAGE MINIMUM SPACING 4D FROM AN ADJACENT HOLE, FASTENER OR OTHER DAMAGE - 1.5D FROM THE EDGE OF THE PART	

TABLE A

	ALLOWABLE DAMAG	GE LIMITS - INLET COWL ACOUSTIC	PANEL
TYPE OF DAMAGE	DAMAGE TO THE CARBON FIBER PLY	LIMIT DESCRIPTION	MAXIMUM DAMAGE LIMITS LENGTH: INCHES (mm) AREA: SQUARE INCHES (SQUARE cm)
	NO	ANY DIMENSION	NONE
NICKS, GOUGES AND SCRATCHES	YES 5	- LENGTH - WIDTH - DEPTH IN PLIES - DAMAGE MINIMUM SPACING	20.0 (508) 0.25 (6) 1 PLY (MAXIMUM) SEE FIGURE 103, DETAIL I
DENTS 4	NO	- DIAMETER, DEPTH - DAMAGE MINIMUM SPACING OR - DIAMETER, DEPTH - DAMAGE MINIMUM SPACING	2.0 (51), 0.050 (1.3) SEE FIGURE 103, DETAIL I 10.0 (254), 0.0050 (0.13) SEE FIGURE 103, DETAIL I
	YES	ANY DIMENSION	SEE LIMITS FOR HOLES AND PUNCTURES
HOLES AND PUNCTURES	YES	- DIAMETER	1.0 (25) 9 3.0 (76) 10 4.0 (102) 11
13>		- DEPTH	ONE FACESHEET AND THE CORE.
		- DAMAGE MINIMUM SPACING	SEE FIGURE 103, DETAIL I

TABLE B

N01118 S0006717923_V4



Issue Date: 15 May 2012

Fig Issue Date: 15 Sep 2005

ALLOWABLE DAMAGE LIMITS - INLET COWL ACOUSTIC PANEL				
TYPE OF DAMAGE	DAMAGE TO THE CARBON FIBER PLY	LIMIT DESCRIPTION		MAXIMUM DAMAGE LIMITS LENGTH: INCHES (mm) AREA: SQUARE INCHES (SQUARE cm)
DELAMINATION 6 7	NO	PERFORATED FACESHEET SOLID FACESHEET	- DIAMETER - DEPTH - DAMAGE MINIMUM SPACING - TOTAL AREA OF ALL DELAMINATION - DIAMETER - DEPTH - DAMAGE MINIMUM SPACING - TOTAL AREA OF ALL DELAMINATION	SEE DETAIL H 5.0 (127) ONE FACESHEET AND THE CORE SEE FIGURE 103, DETAIL I 50.0 (323) SEE DETAIL H 5.0 (127) ONE FACESHEET AND THE CORE SEE FIGURE 103, DETAIL I 50.0 (323)
	YES	SEE LIMITS FOR HOLES AND PUNCTURES		
EDGE DAMAGE	YES 5 YES	- WIDTH - DEPTH - DAMAGE MINIMUM SPACING - ANY DIMENSION		0.25 (6) 0.10 (2.5) 1.0 (25)
EDGE EKOSTON	5	- ANY DIMENSION		SEE DETAIL F AND G

TABLE B (CONTINUED)

Figure 103. Allowable Damage Limits : Sheet 2



Issue Date: 15 May 2012

			Fig Issue Date: 15 Ja
	ALLOWABLE DAM	MAGE LIMITS - INLET COWL OUTER	PANEL
TYPE OF DAMAGE	DAMAGE TO THE CARBON FIBER PLY	LIMIT DESCRIPTION	MAXIMUM DAMAGE LIMITS LENGTH: INCHES (mm) AREA: SQUARE INCHES (SQUARE cm)
	NO	ANY DIMENSION	NONE
NICKS, GOUGES AND SCRATCHES	YES	- LENGTH	20 (508) 0.25 (6)
	8	- DEPTH IN PLIES	1 PLY (MAXIMUM)
		-DAMAGE MINIMUM SPACING	SEE FIGURE 103, DETAIL I
		- DIAMETER	2.0 (51)
DENTS	NO	- DEPTH	0.050 (1.3)
4		- DAMAGE MINIMUM SPACING	SEE FIGURE 103, DETAIL I
	YES	ANY DIMENSION	SEE LIMITS FOR HOLES AND PUNCTURES
		- DIAMETER	1.0 (25.4) 9
HOLES AND PUNCTURES			3.0 (76.2) 10
13>	YES		4.0 (101.6) 11
		- DEPTH	ONE FACESHEET AND THE CORE
		- DAMAGE MINIMUM SPACING	SEE FIGURE 103, DETAIL I
		- DIAMETER	SEE DETAIL H 4.0 (101.6) 9
DELAMINATION			6.0 (152.4) 10
12	NO		8.0 (203.2) 11
		- DEPTH IN PLIES	ONE FACESHEET AND THE CORE
		- DAMAGE MINIMUM SPACING	SEE FIGURE 103, DETAIL I
	YES	SEE LIMITS FOR HOL	ES AND PUNCTURES
		- WIDTH	0.25 (6)
EDGE DAMAGE	YES 5	- DEPTH	0.10 (2.5)
	ر_دا	- DAMAGE MINIMUM SPACING	1.0 (25)
EDGE EROSION	YES	- ANY DIMENSION	SEE DETAIL F AND G

TABLE C N00967 S0006717925_V2



Issue Date: 15 May 2012

Fig Issue Date: 15 Sep 2005

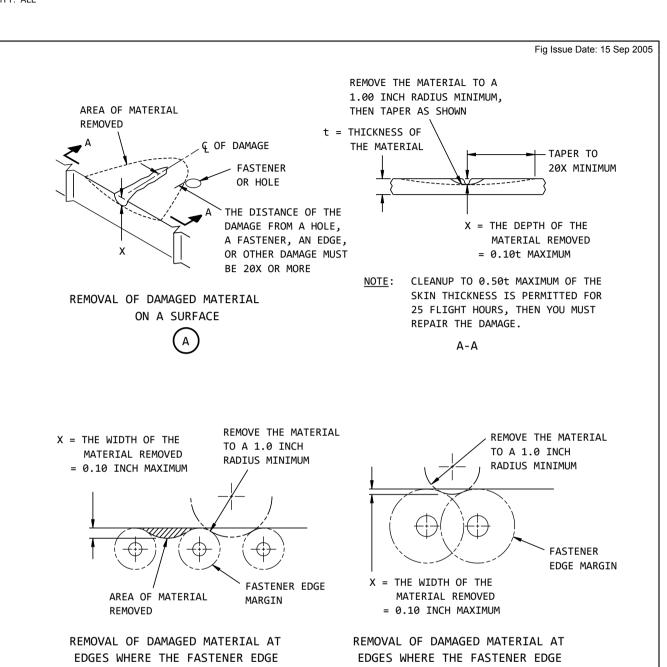
NOTES

- DAMAGE OF UP TO 5% OF THE THICKNESS IS PERMITTED IN THE AREA OF THE SPLICE FASTENERS.
- A MAXIMUM OF TWO DENTS ARE PERMITTED IN ONE QUADRANT. REFER TO FIGURE 101 AND FIGURE 103, DETAIL E. THE EDGE OF THE DENTS MUST BE A MINIMUM 0.50 (13 mm) FROM ANY FASTENER (COUNTERSINK EDGE).
- 3 INSTALL A NAS 1398D BLIND MONEL RIVET WITH BMS 5-63 SEALANT.
- DENTS GENERALLY RESULT IN FIBER DAMAGE OR DELAMINATION. THE LIMITS FOR DENTS
 CAN BE APPLICABLE IF NO FIBER DAMAGE OR DELAMINATION EXISTS. IF THERE IS FIBER
 DAMAGE OR DELAMINATION REFER TO THE APPLICABLE DAMAGE DATA IN TABLE B OR
 TABLE C.
- 5 DO A PERMANENT SEAL OF THE DAMAGE AS GIVEN IN THE PARAGRAPH GENERAL.
- 6 DELAMINATION IS NOT PERMITTED IN THE CRITICAL AREA SHOWN IN FIGURE 103 DETAIL H.
- DO AN INSPECTION OF THE DELAMINATION EVERY 400 FLIGHT CYCLES. REPAIR THE DAMAGE BEFORE OR AT 4,000 FLIGHT CYCLES.
- DO A TEMPORARY OR PERMANENT SEAL OF THE DAMAGE. FOR THE TEMPORARY SEAL, DO AN INSPECTION EVERY 400 FLIGHT CYCLES AND DO A PERMANENT SEAL AT OR BEFORE 4,000 FLIGHT CYCLES.
- DO A TEMPORARY SEAL OF THE DAMAGE. DO AN INSPECTION EVERY 400 FLIGHT HOURS.

 REPAIR THE DAMAGE BEFORE OR AT 4,000 FLIGHT HOURS.
- 10 DO A TEMPORARY SEAL OF THE DAMAGE. REPAIR THE DAMAGE AT OR BEFORE 400 FLIGHT HOURS.
- 11 DO A TEMPORARY SEAL OF THE DAMAGE. REPAIR THE DAMAGE AT OR BEFORE 25 FLIGHT
- 12 FOR EDGE DELAMINATION REFER TO EDGE DAMAGE.
- HOLES AND PUNCTURES MUST BE CLEANED UP TO CIRCULAR HOLES BEFORE APPLICATION
 OF TEMPORARY OR PERMANENT SEAL. MAKE THE ESTIMATE OF THE HOLE SIZE AFTER YOU
 CLEAN UP THE DAMAGE.



Issue Date: 15 May 2012



MARGINS DO NOT HAVE AN OVERLAP MARGINS HAVE AN OVERLAP



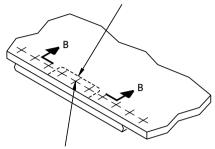
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Issue Date: 15 May 2012

Fig Issue Date: 15 Sep 2005

THE REMOVAL OF MATERIAL AROUND THREE FASTENERS IN A GROUP OF TEN IS PERMITTED TO A MAXIMUM DEPTH OF X



REMOVE THE FASTENERS BEFORE THE DAMAGE IS REMOVED. INSTALL THE FASTENERS AFTER THE REWORK IS COMPLETED

REMOVAL OF CORROSION DAMAGE AROUND THE FASTENERS



X = THE DEPTH OF THE

MATERIAL REMOVED

= 10% OF THE THICKNESS

MAXIMUM

MAKE SURE THAT THE MODIFIED

COUNTERSINK DEPTH IS NOT GREATER THAN

2/3t, OR THERE IS A MINIMUM OF 0.02

INCH THICK MATERIAL LEFT FROM THE

DEEPEST PORTION OF THE COUNTERSINK.

REMOVE CORROSION ON THE MATING SURFACE TO THE MAXIMUM DEPTH PERMITTED AND FILL WITH AN ALUMINUM SHIM

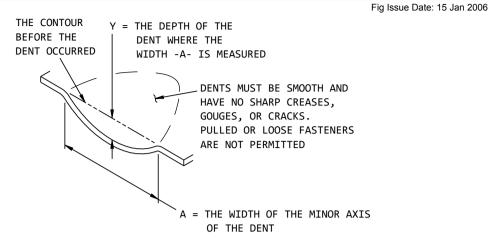
MAKE IT SMOOTH TO A 0.50 INCH RADIUS MINIMUM

B-B N01131 S0006717928_V1

Figure 103. Allowable Damage Limits: Sheet 6



Issue Date: 15 May 2012



IT IS NOT NECESSARY TO REPAIR THE DENT IF:

- DENTS ARE SMOOTH AND HAVE NO GOUGES, CRACKS, OR SHARP CREASES
- A/Y IS MORE THAN 8 AT ALL LOCATIONS ALONG THE DENT
- Y IS 0.125 INCH (3.2 mm) OR LESS
- THE MAJOR AXIS OF THE DENT IS 4.00 INCHES (102 mm) OR LESS

OR,

IT IS NOT NECESSARY TO REPAIR THE DENT IF:

- DENTS ARE SMOOTH AND HAVE NO GOUGES, CRACKS, OR SHARP CREASES
- Y IS 0.125 INCH (3.2 mm) OR LESS
- THE MAJOR AXIS OF THE DENT IS 4.00 INCHES (102 mm) OR LESS
- AND THE DENT IS INSPECTED EVERY 24 CALENDAR MONTHS OF OPERATION AND THERE ARE NO CRACKS.
- IF THE DENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, THE DENT IS PERMITTED FOR 25 FLIGHT HOURS IF:
- THE DENT HAS A CREASE LESS THAN 3.00 INCHES (76 mm) LONG
- Y IS LESS THAN 0.25 INCH (6.4 mm)
- THE LENGTH AND WIDTH OF THE DENT IS LESS THAN 7.00 INCHES (178 mm)
- THERE ARE NO MORE THAN TWO DENTS FOR EACH UPPER QUADRANT
- THERE ARE NO MORE THAN TWO DENTS TOTAL FOR BOTH LOWER QUADRANTS TOGETHER.

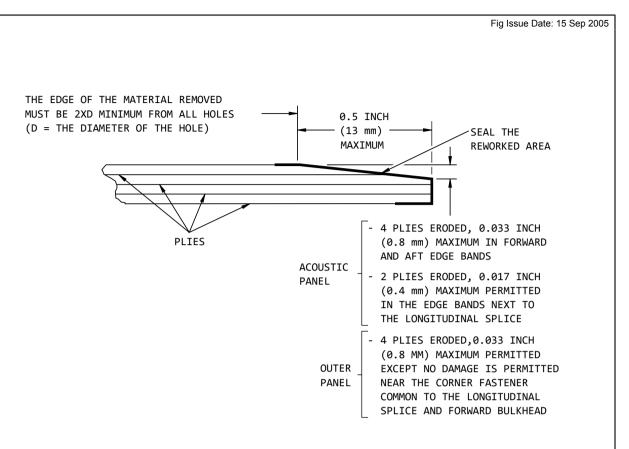
DENT THAT IS PERMITTED ON THE INLET COWL LIP SKIN



N01133 S0006717929_V3



Issue Date: 15 May 2012



DAMAGE REMOVAL AND SEAL INSTRUCTIONS:

- 1. CLEAN THE DAMAGED AREA AS GIVEN IN SRM 51-10-02.
- 2. MAKE A CHAMFER ON THE EDGE, UP TO THE MAXIMUM DIMENSIONS SHOWN, TO REMOVE THE DAMAGED MATERIAL.
 - A. DO NOT MAKE A CHAMFER THAT GOES THROUGH THE EDGE OF A COUNTERSINK AT A FASTENER LOCATION.
 - B. REMOVE ALL BURRS TO MAKE THE CONTOUR SMOOTH.
 - C. SEAL THE REWORKED AREA

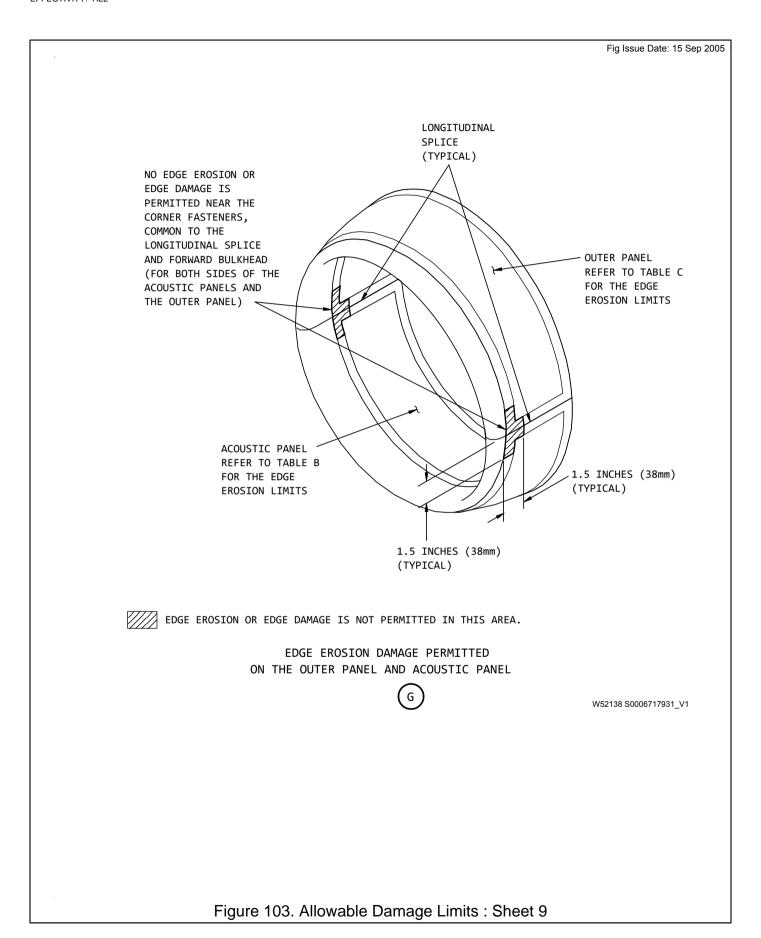
REMOVAL OF EDGE EROSION DAMAGE



N01136 S0006717930_V1



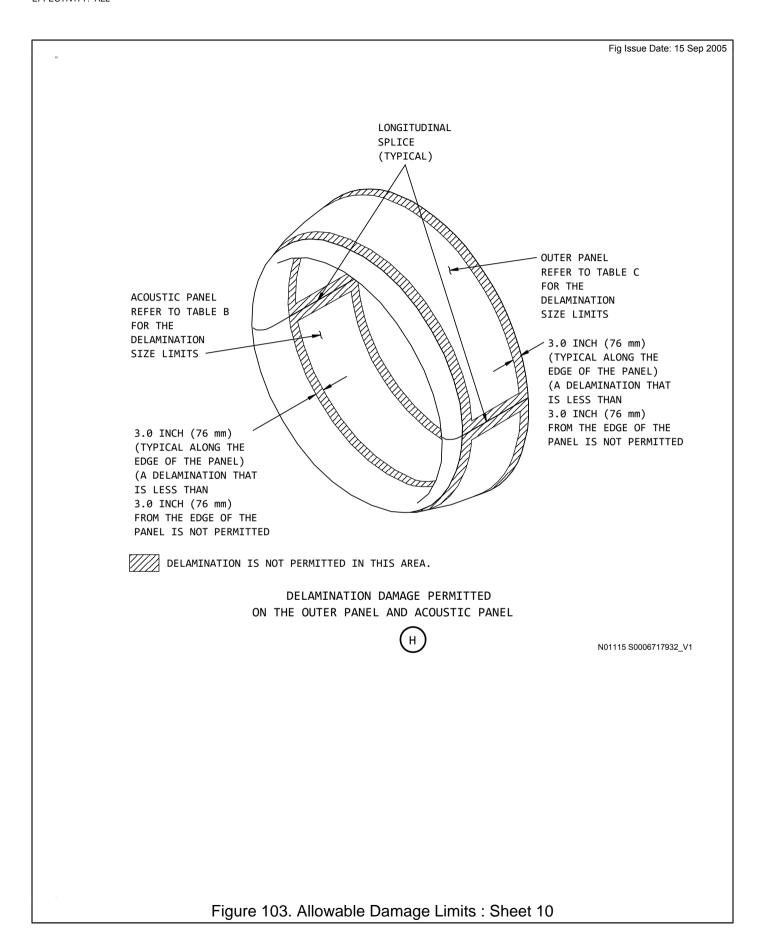
Issue Date: 15 May 2012



Selected 205



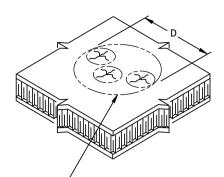
Issue Date: 15 May 2012



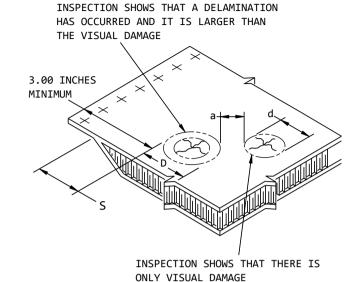


Issue Date: 15 May 2012

Fig Issue Date: 15 Sep 2005



SMALL DAMAGE AREAS THAT ARE CLOSELY SPACED MAY BE GROUPED TOGETHER AND CONSIDERED AS ONE DAMAGE AREA



NOTE:

- A DAMAGED AREA CAN INCLUDE ANY OF THE TYPES OF DAMAGE WHICH FOLLOW:
 - A DENT
 - A DELAMINATION
 - A PUNCTURE
 - A NICK, GOUGE OR SCRATCH WITH FIBER DAMAGE
- TO FIND DELAMINATION YOU CAN USE NONDESTRUCTIVE INSPECTION PROCEDURES (REFER TO NDT PART 1, 51-01-01.
- THE DIAMETER OF A DAMAGE AREA IS EITHER THE DIAMETER OF THE VISUAL DAMAGE OR THE DIAMETER OF THE DELAMINATION.

 USE THE DIAMETER OF THE LARGER DAMAGE.
- -D- IS THE LARGER DIAMETER OF ANY TWO ADJACENT DAMAGE AREAS.
- -d- IS THE SMALLER DIAMETER OF ANY TWO ADJACENT DAMAGE AREAS.
- -a- IS THE DISTANCE BETWEEN ANY TWO ADJACENT DAMAGE AREAS.
- THE MINIMUM -a- THAT IS PERMITTED IS THE LARGER OF 0.75D OR 3d.
- -S- IS THE DISTANCE FROM THE EDGE OF THE DAMAGE TO THE EDGE OF THE HONEYCOMB.
 - FOR THE INLET COWL OUTER PANEL -S- MUST BE 2.00 INCHES OR 1XD WHICHEVER IS LARGER.
 - FOR THE INLET COWL ACOUSTIC PANEL S MUST BE 3.5XD INCHES.

DAMAGE SIZE AND SPACING DATA FOR COMPOSITE PANELS



W76239 S0006717933_V1

B7-LRE-0009

Structural Damage Repair Report



MSN:	36304		Date: 25 Jan 2015	Index No: 09
Aircraft Type:	B777-	200LR	SDRR No: B7-54-L	RE-0009
Aircraft Reg'n:	A6-LR	E	Structural Classifica	ition: PRIMARY
Aircraft TSN:	25371	Aircraft CSN: 3001	Visit: 882560	WO: AUH11344469

INLET COWL UPPER	OUTER BARREL DAMAGED DU	JE TO DUE TO SLING BREAK
314W1400-9	Serial	No: 001114
ACCIDENTAL		
B777-300 SRM 54-1	3-01 Rev.49, 15 May 2014	
	STGR/BL/WL:	RIBS:
		Side:
	314W1400-9 ACCIDENTAL	INLET COWL UPPER OUTER BARREL DAMAGED DU 314W1400-9 Serial ACCIDENTAL B777-300 SRM 54-13-01 Rev.49, 15 May 2014

Defect Description (Type of damage, Dimension)

ON 26 Aug 2014 SUBJECT INLET COWL (P/N: 314W1400-9, S/N: 001114) WHILE FITMENT ON AIRCRAFT B777-300ER, Regn: A6-ETC MSN: 34599, WAS DAMAGED ON THE UPPER OUTER BARREL UPPER SURFACE DUE TO SLING FAILURE. MINOR SCRATCH DAMAGES WERE ALSO FOUND ON THE LIP SKIN AT TWO LOCATIONS (A & B) BETWEEN 10 & 11 O' CLOCK POSITION (Qty: 07) AND BETWEEN 12 & 1 O' CLOCK POSITION (Qty; 01). REFER TO ATTACHED SKETCH FOR

DUE TO THE EXTENSIVE DAMAGE ON THE UPPER OUTER BARREL PANEL, IT IS TO BE REPLACED. THERE ARE TWO EXISTING MINOR DENT DAMAGES ON THE INLET COWL LIP SKIN AT 1 O' CLOCK AND AT 5 O' CLOCK POSITIONS WHICH ARE REPORTED IN SDRR # B7-540000-6866 & SDRR # B7-540000-6865 RESPECTIVELY.

MINOR SCRATCH MARKS ON THE LIPSKIN BETWEEN 10 & 11 O' CLOCK POSITION AND BETWEEN 12 & 1 O' CLOCK POSITION WERE REMOVED I.A.W. B777-300 SRM 51-10-02-0G-0, Para.5.A.

HFEC INSPECTION AS PER NTM 51-06-00 CONFIRMED NIL CRACKS. ULTRASONIC THICKNESS TEST WA PERFORMED AS PER NTM 51-00-10 PT 4 TO DETERMINE LOSS OF MATERIAL (0.002" & 0.001").

Dimension: Refer to the sketch	for details.						
Method of inspection:	TAP TEST + HFEC + U.T	THICKNESS + DVI					
Repair exists in near vicinity:	NO	Distance between repairs: N/A					
*Sketch/ Drawing No. :							
Action / Rectification							
Permanent :	Cowl S/N: 001431) IN ACC (2) MINOR SCRATCH REV AND BETWEEN 12 & 1 O' DAMAGE LIMITS I.A.W. B'	EL WAS REPLACED WITH SERVICEABLE PANEL (from Ex Inlet CORDANCE WITH B777 AMM 71-11-01 PB 201. WORKS ON THE LIPSKIN BETWEEN 10 & 11 O' CLOCK POSITION CLOCK POSITION WERE FOUND TO BE WITHIN ALLOWABLE 777-300 SRM 54-13-01-1A-1 TABLE 'A', FIG 103, DETAIL 'A'. CARRIED OUT AS PER B777-300 SRM 51-20-01.					
	Date: 25 Jan 2015						
Repair Approved by:	B777-300 SRM 54-13-01-1	A-1 TABLE 'A', FIG 103, DETAIL 'A'					
(ADAT Repair Scheme, DDO, SRM, SB, other) -Specify SRM/CMM Rev. & Date)	B777 AMM 71-11-01 PB 201						
Repair is: PERMANENT		Repair Installation Date: 02 Sep 2014					
Inspection Threshold:	NO SUPPLEMENTAL IN	ISPECTION REQUIRED.					
Applicable Reference(s):	SHOP WORK PACK NRC 001						
Prepared by: NARAYANAN I	KUTTY Or 32	Staff No.: 14364					
Signature: ELECTRONICALLY GENERATED	DOCUMENT NO SIGNATURE REQUIRED	Date: 25 Jan 2015					

^{*} Where Applicable.



Structural Damage Repair Report



MSN:	36304		Date: 25 Jan 2015	Index No: 09
Aircraft Type:	B777-	200LR	SDRR No: B7-54-LI	RE-0009
Aircraft Reg'n:	A6-LR	RE	Structural Classifica	ation: PRIMARY
Aircraft TSN:	25371	Aircraft CSN: 3001	Visit: 882560	WO: AUH11344469

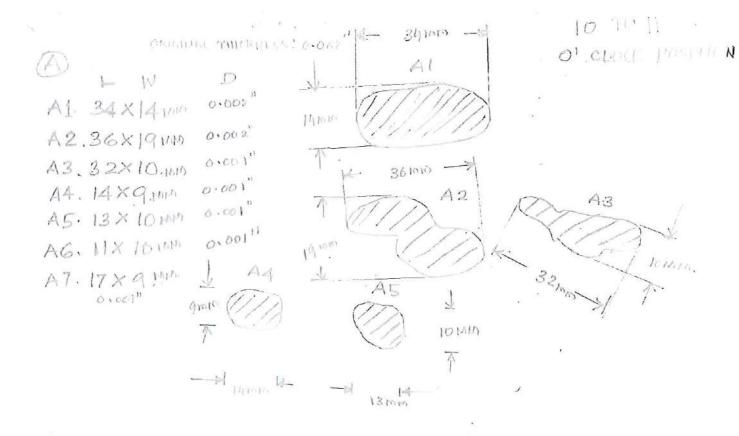
ACTION / RECTIFICATION:

- (1) UPPER OUTER BARREL WAS REPLACED WITH SERVICEABLE PANEL (from Ex Inlet Cowl S/N: 001431) IN ACCORDANCE WITH B777 AMM 71-11-01 PB 201.
- (2) MINOR SCRATCH REWORKS ON THE LIPSKIN BETWEEN 10 & 11 O' CLOCK POSITION AND BETWEEN 12 & 1 O' CLOCK POSITION WERE FOUND TO BE WITHIN ALLOWABLE DAMAGE LIMITS I.A.W. B777-300 SRM 54-13-01-1A-1 TABLE 'A', FIG 103, DETAIL 'A'.

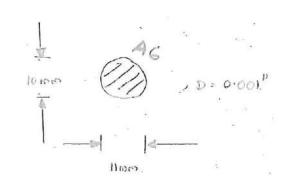
SURFACE PROTECTION CARRIED OUT AS PER B777-300 SRM 51-20-01.

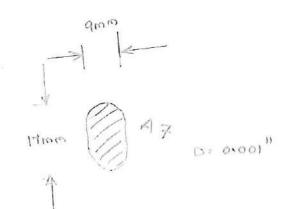
NOTE: SUBJECT INLET COWL (P/N: 314W1400-9, S/N: 001114) IS PRESENTLY FITTED ON A6-LRE, B777-200LR, MSN: 36304.











E. 28 mm x 9 mm. 0.001"

28 ans.

REMINING THICK! 0.677"

ADAT 417

Vork			NON	RO	UTINE W	ORK C	ARD	CARD NO.		001
naer	Management of the state of the	111344469*	11010					PAGE	1	OF-3
	الإند	A/C REG	A/C TYPE		VISIT NO.	ZONE	TRADE	ATA	DATE	RAISED
EII	HAD	A6-LRE	B777-200LR		882560 -	VARIOUS	AF		24-	JAN-15
		GENERATED B	Y	EST.	CHARGEABLE	custo	MER AUTH. (F REQD.)		SED BY
C	ARD / DE	FECT NO:	NR Number	МН		1			EM	P. NO.
	M713	39612	7139612		YES X NO					
<i>(</i>				DEFEC	/ DESCRIPTION OF	F NON-ROUTINE	WORK	-0		
r.	an nn	DI NOR THE			T PN:314W140			LET COWL	WITH ETI	HAD
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TEM NO		ACTION	TO BE TAKEN	•	1	ACTION '	TAKEN		EMP. NO. DATE	SIGN
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	(HES-ESSAME)		N/FOOL TAG		REPLA			Amm	4	25744
		CEABLE TAG				->-11 =0	444			(Jul. 0)
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30	REIU	STAL 1	PANEL.	T12	(30) Ti2	SENSON	2 Acas	25	,	B38
ě	PROG	E			PANTE	LNORN	TALISE	D.	Jun 1	Salt
40	TOR	RUE INTE	FT COWL	Bo			AIOP P	D. SUL BOUT	280) JANG	25
1 -		- E								\ B38
	AW	Aum 7	1-11-017	51 4	OI TACO	MMH 7	1-11-61	1401		47
÷	ROU	73	JAN 15		Rear	#3	5/1/	15		Him
CARI	CLEAR	TICK AS A	PPROPRIATE	N. N.C	hat the work specifie		/ /	d was carried	out in accorda	J. J.
		UAE.1	45.0002 1	45 / EAS	A Part 145° and in	respect to that wo	ork, the aircraft	/ aircraft comp	onent is consid	dered ready
			.145.0442	or releas	e to service. (*Delete	e not applicable)	8			
,			45.0010 (OLD:G	CAA-EN	N/G/487)		ā.			16: 18:
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0771		COM	PONENT CHANGE DETAILS		·-/
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	Mar 1400-26	001558	Burtus -	001114	AUH-5-15023
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(B3)		· 0×	(8.23)		
Continuation	NR Page Attached Yes	No Para	\J	Tick box if additional pa	rts used sheets attached

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		AJC	REG.:			VISIT NO.:	831260		RAISED BY EMP. NO.:			
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		UAE.145. EASA 145 OTHERS	5.0442	.CAR 145 / I	EASA Part 14	pecified, excep 5* e nd in respe ce. (*Delete no	at as otherwise spe- ect to that work, the of applicable)	cified, was	s carried out in a aircraft compon	accordance with ent is considered		
				CO	MPONENT C	HANGE DETA	ILS					
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Vork`	AUIT	11344469		TINE WORK CARD nuation Sheet	CARD NO		001
			Conti	nuation Sheet	PAGE:	.3	OF 3:
54 -111		A/C RE	:G.:	VISIT NO.:		RAISED BY EMI	P. NO.:
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ARD CI	FAR		TICK AS	APPROPRIATE			
		✓ UAE.145.00		iat the work specified, except as otherwise sp	ocified was	carried out in acr	cordonos with
	1	EASA 145.00	CAR 145 /	EASA Part 145* and in respect to that work, It lease to service. (*Delete not applicable)			
		OTHERS_	ready for re	rease to service. (Delete flot applicable)			
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			со	MPONENT CHANGE DETAILS			
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COLUMN TOWN		age attached Yes	□ No V	Tick box if additional parts use			

STORES INSPECTOR SSIGN JET 18	DSN	CSN CSR	TSR	SHELF LIFE & EXPIRY DATE WARRANTY HRS WARRANTY	SONICOOL FRA EX AS-DOC	SERIAL/LOT NO. QTY APPD CERT TYPE & NO	DESCRIPTION MET COW	MFG PART NO. 314W1400-9	ITEM NO.	CUSTOMER BY HAZE MILLU ANS	VISIT/PO/RMANO.		Edalioyy (Selliffings) as a falliffablin files
DESPATCH TO *REPAIR/WORKSHOP SIGNATURE	APPROVED APPROVED STAMP OR LICENCE NO.			REASON FOR :	REMOVED REMOVED FROM REMOVED DD MM YY AT STN AC REG. NO. ON DATE		ENG. NO. LI DEFECT NOTED DURII	S/N REPORT TICK-IF REQD	KEYWORD ACCIDENT/INCIDENT/SAFETY	OVEREI OW U: UNSCHEDULED	OFF P/N S: SCHEDULED	ADAT NO. LILLI I I I I I I I I I I I I I I I I	ONSERVICEABLE PART REMOVAL DETAILS

ADAT/QA/508 ISSUE 11 TOP COPY & HARD PACK - COMPONENT / WHITE COPY - WORK PACK / BLUE COPY - STORES

TECHNICAL RECORDS DATA - WORK REQUIRED

TRANX CODE . REPAIR ORDER NO.	SIGNATURE A 3354	5 o'clock	JEST SITURIA SEM LIMITA		, A MODIEY	3. REWORK	2. STRIP & REPORT SAMPLE	1. AS IS TEST & REPORT	FAULT CODE	AC HRS AT REMOVAL CYCLES AT REMOVAL	TSN/CSN/DSN TBO/CBO	
DATE	DATE 05 JAN 2015		1-0000-6866 3 6868 S	मुन्या		7. WARRANTY CLAIM	6. OVERHAUL	5. CLEAN/REPAIR/RECTIFY (OC)		AL ATA NUMBER ZONE	TSO/CSO/DSO TSR/CSR/DSR	

ABU DHABI AMON TECHNOLOGIES

Certificate of Release to Service

1 D.A.E. 145:0010 JAG 115, Odella EASA. 145.0073

* D-Certified that the work specified except as otherwise component is considerred ready for release to service. specified was carried out in accordance with PART.145* CAR-145* and in respect to that work the aircraft/aircraft

** SUSA FAA ref. CFRS GUX2107F-VISIT no.:

service. in accordance with current regulations of the Federal Aviation Administration and is approved for return to The appliance identified hereon was repaired and inspected

DELETE AS APPROPRIATE

SHONATURE/DATE



Maintenance Repair and Overhaul: Oracle Complex Maintenance Repair & ... Page 1 of 1

Oracle Complex MRO

B7-5A-LRE-0009

Home WO Overview Data Entry Prod Reports SCM Reports Other Pr

rch Issues | View Material Transactions | Issue to Work order | Return to HOLD Sub Inventory | Mark for Return | Order Enquiry | Iter

Logged In As UKUTTY

cle Complex Maintenance Repair & Overhaul: Component Removal and History Details

mponent Details

Item Number 314W1400-9

Description COWL INLET

Installed Unit A6-LRE

Serial Number 001114 Item Type ROTABLE TRACKED

moval/ Install Repair History

mponent Removal, Installation & Repair History

		Inst	allati	on			Ren	ioval					Repair	Details		
Unit ails Nam how A6- DDA	e Position COWL INLET_LH	Location) Date	Staff No	Location AUH-AFS	22- Feb-		Rem Type Scheduled	Rem Reason Robbery	Location	Date	Staff No		OSP Order Number	MOD Stamp NF	Items F C'smo
how A6- ETC	COWL INLET_LH	AUH-AFS	23- Feb- 2012		AUH-ELM		EY- 28010	Unscheduled	Robbery							85
now A6- ETC	COWL INLET_LH	AUH-AFS	23- Feb- 2012		AUH-ELM		27977	Unscheduled	Damaged	AUH- STRCMP	02- Sep- 2014		791349			3
DDC	ZA1019_INLET ASSY_LH		02- Sep- 2014	27969	AUH-ELM		27964	Unscheduled	Damaged	AUH- STRCMP	05- Jan- 2015		872324			20
10W A6- LRE	COWL INLET_LH	AUH-ELM		EY- 28009												Å.

Issue Return to to HOLD Mark Order Item Component Item Order - Order - Order -Search Move Move PRN Material View WO Data Prod Search Move Order - Order - PRN General Material Home Overview Entry Reports Re Transactions Work Sub Return Enquiry Search History Material

W/P. REF#145							
1	WORK	(SHOP	VISIT No: 79134	19			
l l							
The same of the sa	CON	TROL	INSTANCE No: 1807013 CUSTOMER: ETIHAD AIRWAYS(EY)				
Post of the Charles o	CON	INOL					
P.O. BOX 46450	1		CUSTOMER RO	: LCI677_Annex 3C_	_Airframe		
ABU DHABI, U.A.E.	SH	EET	REQ'D REL AU	THORITY: GCAA			
UNIT DESCRIPTION: COW	/L INLET		Manual Ref.: I Rev: 60 Date:	B777 NTM 51-05-01 10-APR-14	ATA: 54		
Manufacturer Part No.: 314W1400-9		Serial No: 001114	Qty: 1	A/C Reg A6-ETC	Visit Dept AUH-STRCMP		
Life Details	TSN	I	TSO		TSR		
(as received)	CSN		CSO		CSR		
Hours	DSN 15890		DSO 15890.7	3	DSR 15890.73		
Cycles	256		2561	9	2561		
Days	NA	3	NA NA		NA NA		
Reason for Removal: DAMAGE ON UPPER SURF REFER W/O# AUH1016472 B777-300ER/ A6-ETC.		NG BROKE.	Customer Requ				
CARD NUMBER NTM51-05-01_INSP_314V	MAXXX	REV 1	WORK REQUIR	EMENT (S)			
141101-05-01_II401_514V	VIAXXX	INCV I		(Embody the follow	ving AD/SR/EO)		
			NA NA	(Linbody the follow	ming AD/OB/EO/		
The foregoing work requirem Customer Repair Order refer Sign/Stamp	nent is based on interest above. ADAT 6520	formation supplied	***************************************	and I.A.W. 31-Aug-2014			
	FINAL REL	EASE CERTIF	ICATION (WORK	SHOP)			
Part Number: 314 w	1400-9		Serial Number: Ó	61114			
The work recorded above he manuals and in respect to the UAE.145.0010 EASA	nat work the item is	considered read	y for release / retur	n to service under (*	Tick as appropriate):		
UAE.145.0010 EASA EASA. 145/0073	CFRS	DGSAS OMAN AWR/238/ADAT 42-087	MILITARY .	MAAVAAMC /2012/02	IERS		
Signature:	Certified in accord	lance with Tech Auth. Stamp:	nical Procedures ADA1 5748 Dat	Manual 4-41 e: 2 S & P 4			
Name: VIVEK Jor (Block Letters)	MH PICARD	0 -	- 2	z			
I hereby certify that work-pac Planning, & Engineering requ	k content is IAW the	pplicable).	ADAT	DR. USD-5	The state of the s		
Released by Name: 100	17 /V V./	Signature	& Stamp:	Date:_	18 sep 2014		
Workpackage received for are	chives/Technical R	ecords.		N.			
Name:		Signature:_		Date:			

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			SHO	P ROUTIN	E CARD		PAGE		1/2	
			95 (CE 100) (CE 100)			MK	Rev/Date:		31-AUG-14	
_	A	CAR	D (MR) NO:	NTM51-05-01_INSP	_314WI4XXX	VIS	SIT NO.	7	91349	
61.1043	hid words 11.8	W	ork Order:	1,000	UH10208842*		9.2		&C	
	O 45550-ASU EHASI-UAE ED BY / REF#	De	escription:	COWL INLET						
	DMAN AWR/238/ADAT-042/0		Part No:	314W1400-9		Р	arent	Δ1	JH-STRCMP	
	GUX2107F.	S	Serial No:	001114		De	pt/Shop	Au	TI-OTROME	
ANDOTH	(SPECIFY)	(Quantity:	1	MOD Status;	V.E.	O11 D-1		4 4110 44	
	3	Ma	nufacturer:	BOEING COMMERC	CIAL AIRPLANES	VISIT	Start Date:	31-AUG-14		
Cı	ust Code: EY	Cust Na	ame: ETIHAD	AIRWAYS(EY)	Work Type:	Planr	ned Finish			
REI	F: B777 NTM 51	-05-01		REV: 60	DATE: 10-APR-14	The state of the s	Date:	0	11-SEP-14	
ENSU	RE THAT ALL PR	OCEDUF	RES AND SAFE	TY PRECAUTIONS IDEN	TIFIED WITHIN THE APPLICAB	LE TA	SKS ARE F	OLLO	WED	
CERT	IFY THAT THE AB	OVE RE	F DOC REV NO	IS THE SAME AS PER	CURRENT EDOC REV.:- REV N CD SERVER	0:€	SO STAP	MP:	ADAT 3146	
							CER	TIFI	CATION	
OP	DEPT		TASK	DESCRIPTION /	REQUIREMENT		MEC		INSP	
							Sign/Em Date		Sign/Stamp Date	
10	AUH-STRCMP						Date		Date	
									15).	
====	NSPECTION									
This	work sheet is	applica	able to the	following P/N:314W1	1400-9.		b.		2	
Ref.D	oc: B777 NTM 5	1-05-0	1.				0176310	١	61SEP14	
IDENT	IFY AND RECORD): -					0136716			
MFG.	P/N: 3144	4140	0-9						ADAT 3146	
		4.1	•							
SERIA	L.NO: 001	114		4						
Heed a	all warnings c	autions	and notes	specified in the NT	EM.					
20	AUH-STRCMP						9 /		17	
Perfo	rm general vis	ual ins	spection of t	the unit for genera	al condition, and any obvi	ous	0120011	1	alsen's	
damage	e. Record all	the def	ect/findings	that will be foun	nd during inspection and ort sheet form ADAT/QA/101		9120	1,	ADAT 3146	
2200000 11	AUH-STRCMP		odia derece	on inspection repo	ze sheet totil abai, ga, ivi				3160	
30	NOTE OF THOME						V		۸ -	
Perfor	m NDT inspect	ion Tap	test on the	outer barrel of to of the findings on	he Inlet Cowl per B777 NT the inspection report sh	M	01508	'w	0150014	
	ADAT/QA/101R.						1233	16	ADAT	
	All recorded equirements.	damage	area must be	assessed for acce	ptance or repair action,	iaw			3146	
40	AUH-STRCMP									
					51-06-00. Record the siz	е	01704	9	0150014	
	All recorded oquirements.	damage	area must be	assessed for acce	ptance or repair action,	iaw	122	Хρ	ADAT 3146	
ERTI	FIED IN ACCOR	DANCE	WITH TPM "4	1-41"						

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CARD NUMBER	MR Rev/Date.	*AUH10208842*		PAGE	2/2
NTM51-05-01_INSP_3 14WI4XXX	1/ 31-AUG-14			VISIT NO	791349
Signature	Rind	Auth. Stamp ADAT	Date	0150814	

Repair Cards		NRC No.	Description	Add Worksheet Raised.	Description
topan outus	1)	A4H10209546	2001	1)	
YES 🗸	2)	MH1020530	P002	2)	
NO	3)			3)	

			SHO	P ROUTIN	FCARD	-	PAGE		1/2	
			3110	FROOTIN	LOAND	MRF	Rev/Date:	1/	02-SEP-14	
	Å	CAR	D (MR) NO:	SRM54-13-01_REP_	314WXXXXX	VIS	SIT NO.	79	91349	
zi qilin	r Townson Wasi	Wo	ork Order:		JH10221865*		Sa	2	C	
POBOXNO.4	BY/REES	De	escription:	COWL INLET						
UAE.145.00		F	Part No:	314W1400-9		Р	arent			
EASA 145.0 FAA USA GI	073.	S	erial No:	001114		Dep	pt/Shop	AU	H-STRCMP	
	R (SPECIFY)	C	Quantity:	1	MOD Status:					
		Mar	nufacturer:	BOEING COMMERC	CIAL AIRPLANES	Visit S	Start Date:	3	1-AUG-14	
Cu	ust Code:	Cust Na	me: ETIHAD	AIRWAYS(EY)	Work Type:REPAIR	Plann	ed Finish		0.050.44	
REF:	B777 SRM 54	-13-01		REV: 49	DATE: 15-MAY-14	C	Date:	0	9-SEP-14	
ENSUR	E THAT ALL PR	OCEDUR	RES AND SAFE	TY PRECAUTIONS IDEN	TIFIED WITHIN THE APPLICA	BLE TAS	SKS ARE F	OLLO		
CERTIF	Y THAT THE AB	OVE RE	F DOC REV NO	IS THE SAME AS PER	CURRENT EDOC REV.:- REV I BOOEING TOOL BOX	NO: 4	9_STAN	MP:	ADAT 3146	
T							CER	TIFI	CATION	
ОР	DEPT		TASK	DESCRIPTION /	REQUIREMENT		MECI Sign/Em Date	oM.q	INSP Sign/Stam Date	
10	AUH-STRCMP	¥1)								
REPAIR		ADDI TO	ADIR TO THE	FOLLOWING P/N:314W	1400-9		P			
THIS W	ORK SHEET IS	АРРЫС	ABLE TO THE	FOLLOWING F/N:314W.	1400-3		0		14	
DENTI	FY & RECORD;						13970		02 SEP 14	
							02 5471	ч	ADAT	
MFG.P/	N: 314W	11400	29						3146	
SERIAL	.NO: 001	114								
HEED A	LL WARNINGS, C	AUTIONS	S AND NOTES	SPECIFIED IN THE SI	RM.					
20 A	AUH-STRCMP						1	,	0	
NOTE:							13770 025EP	,	02 JEP 14	
	ATT TUD DODG	ore/ers	MINITAGE THAT	WILL BE FOUND DURIN	NG MAINTENANCE AND ACTION	J	SEP	14	ADA	
PAKEN .	AGAINST ANY F	OUND DI	EFECT ON INS	PECTION REPORT SHE	ET FORM ADAT/QA/101R.	•	OF		3146	
30 A	AUH-STRCMP				EREL REPLACED. REF	िंगीत विभिन		Alm	MIA	
REPAIR	THE DAMAGE A	REA OF	THE OUTER BA	いいしょう Irispection Arrel per 8777 SRM	54-13-01-2R-2 REPAIR 2.5	DAI	ADAT 3146		ADAT 3148	
40 A	AUH-STRCMP						AD.		HIA	
		THE R	EPAIR PER B7	77 SRM 51-70-05 PA	RA 4.0 GENERAL.		HIA	-,0	ADAT	
50 A	AUH-STRCMP) Al	TAC		
INALL	Y INSPECT, ID	ENTIFY	AND CERTIFY	THE COWL INLET SEE	RVICEABLE.		0 1	414	13976 02567 ADAT 3148	
60 A	NUH-STRCMP						8,377		137760	
							ADAT		ADAT	

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CARD NUMBER	MR Rev/Date.	*AUH10221865*		PAGE	2/2	
SRM54-13-01_REP_31 4WXXXXX	1/ 02-SEP-14			VISIT NO	791349	
CERTIFIED IN ACCORD	DANCE WITH TPM "4-4	1"				
Signature	Siris.	Auth. Stamp	ADAT 5448	Date	02567 20	14

Repair Cards	NRC No.	Description	Add Worksheet Raised.	Description
	1) ANN 1020 9546	Cool	1)	
YES V	2) Avin 1020 530	K002	2)	
NO	3)		3)	

QUALITY ASSURANCE DEPARTMENT > ADAT/QA/101R Issue 14 (Nov 2010) Inspection Report



Visit No.	: 3เนพเนอง ~ ๆ Serial No. : 00 เกษ : 25วงธน Shop No.: 25วงธน Customer	La Constitue de la constitue d	L INLET	
NO.	平年134年 DEFECT	ACTION TAKEN	Mech.Sign Staff No Date	Auth.Stamp Sign Date
1_ RAISED BY	THEE SHELKEE DIE 10	MOI CAPPIED OUT OH OUTER SKIN OF UPPER	13716	ADAT
L ADAT 3146	BROKET SUNG . CARRY OUT HOL TAP TEST 1.AW SIFT NTM SI-05-01	AREA MARKED. REFOR AUM 10210530 OPERATIONIC (R 002)	ADAT	5138 DATE 6158914
RAISED BY ADAT 3148	HLET COUL LIP SKIN FOUND WITH MIHOR SCLATENES! CARRY OUT MFEZ ON LIP SKIN 1:AW B777 NTM SI-01-00	MINDE SCRATCHES BLONDED OUT I AW B777 SEM SI-10-02-04-0 PARA SA REV 49 DTD ISMAYIL. REFOR AMMIDZO9546 OPERATION 10 (2001).	13776	DATE
RAISED BY		POST RLENDOUT MEEZ CARRIED OUT 1: AND HTM SI-06-00. REFOR TO ANH 102 09546 OPERATION RO (P 001)	13776 015re14	DATE OI SEPTY
3 RAISED BY	ASSESSMENT OH REWORKED AFER 1. AND SEM 54 - 13-01-	ASSESSMENT CATEION OUT ON REDUCKED MEET OF LIP SKIH ON 2 LOCATION	13771	ADAT 3143
ADAT 1	LOCATION 18 - 12-1 OCLOCK	(A J G) · TOWHD WITHIN ALLOWAGE LIMITS I'M B777 SEM 54-13-01-1A-1	OISEP14	0 367 14
RAISED BY		TABLE A FIG 106 DETAIL A REW 49 DTD 15 MAY2014 PETTE ANNIOZO9546 OPERATION 30 (ROOT) L ATTACHED FIGHRES, FOR LOCATION A L B	13776 015EP14	DATE 01 SEP 14
	UAE, ☑ *EASA □ *FAA-USA Sheets Raised : Y/N	□ *DGSAS-OMAN □	(* Tick as app	



QUALITY ASSURANCE DEPARTMENT > ADAT/QA/101R Issue 14 (Nov 2010) Inspection Report



Part No.: 3140314	oo-9 Serial No. :	001114	Description : Co	OWL INLET
Visit No.: 791349	Shop No.: 20 2004	Customer : ETIMAD	Date: 015cp14	No. of Sheets : Of

NO.	DEFECT	ACTION TAKEN	Mech.Sign Staff No Date	Auth,Stamp Sign Date
4	CARRY OUT DEFECT RECORDING	MULTIPLE DAMAGES FOUND		2
RAISED	& EVALUATION I.AN SEM	ON OWITE BAPREL. ALL	W.	ADAT
BY	54-13-01	DAMAGES COMBINED TO	15726	2140
ADAT		CARRY OUT REPART	0150919	DATE
3146		DAMAGE CONFINED TO 4		OISCPIL
		LOCATIONS (A,B,C,D)		
4	(CONTD)	DAMAGE A CONFINED		
RAISED		EXPINE AREA 10" X5".		ADAT
BY		DAMMAGE FOUND 12" FROM	2776	3446
TAGA		LEADING EDGE + 46" FROM	CISTEIN	DATE
3146		PH SIDE (ALF).		0150714
4	(07 TD)	DAMAGE B COMBINED	Name and the second	1
RAISED	3	ARKA 6"X3", DAMAGE	- 8	ADAT
BY		FOUND 311 FROM TIL PEOSE	3716	3146
ADAT		ACCESS PANEL & IS" FROM	OISEP14	DATE
3148		TRAILING EDGE		0175517
	,	N. 1. 6 6		
RAISED	(Calle)	DAMAGE & COMBINED		17.00
BY		AREA 18" X 6.5". DAMAGE	- 1/2	ADAT 3146
		FOUND 6.5" FROM LEADING EDGE + 98" FROM LM	13776	30/////
ADAT		SIDE OF PANEL (ALF)	DISEPTY	DATE
5148		SIDE OF PRINCE [REF)	01301.1	0136614
Ц	(COHTD)	DAMAGE D COMBINED AREA		,
RAISED	(VONTE)	18- X 6". DAMACIE TOURIS	k	ADAT
BY		10" PROM LEADING TOGE +	15776	3146
TAGA		46" FROM LH SIDE OF	0136114	DATE
3448		PANEL (ALF): REFER ATTACHED		0150214
		PICTURES		
*GCAA l	JAE ☑ *FAA-USA	□ *DGSAS-OMAN □	(* Tick as app	licable)
Further S	heets Raised: Y/N		CERTIFIED I.A	.W. TPM 4-41



QUALITY ASSURANCE DEPARTMENT > ADAT/QA/101R Issue 14 (Nov 2010) Inspection Report



Part No.: 314w14					owl ther
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6. Item 7.Description		8. Part Number	9. O.tv.	10. Serial Number		11 Status/ Work	-
1 COWL INLET	11	314W1400-9		001114		Renaired	
12. Remarks MINOR SCRATCHES	12. Remarks MINOR SCRATCHES ON LIP SKIN BLENDED OUT AND FOUND WITHIN ALLOWABLE LIMITS I.A.W B777 SRM 54-13-01-1A-1 TABLE A FIG: 103 DETAIL A,REV 49 DATED 15 MAY	WITHIN ALLOWABLE	 	-01-1A-1 TABLE A FIG	3: 103 DETAII	A,REV 49 DATED 15 MAY	
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13b. Authorised Signature	ture 13s_Approval/ Authorisation Number		14b. Authorised Signature	, , , , , , , , , , , , , , , , , , ,	14c. Certificate	14c. Certificate/ Approval Ref. Number	
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		USER/INSTALLE	USER/INSTALLER RESPONSIBILITIES			38	_
This certificate does no	This certificate does not automatically constitute authority to install the item/s)	the item(s).					-

WORKPACK

Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

AW Form 1 Issue: 2(July 2011)

ADAT/QA/404E Issue 01 (Apr. 2014) - Electronic Version

Oracle Complex MRO Home Search/Creation Closure Printing Update Visit Sign Out Help Creation/Search Visits | Customer Visits | Import Thrid Party Routes & MRs | Visit Enquiry Logged In As 5SHANIAUGANATHAN W/P#145 Details Visit Tasks **Update Visit** Maintenance Requirements Cancel Revert Validate Go Apply Cost Details † Indicates required field Visit Stages LCI 677 Visit Number † Visit Name COMP. REPAIR Visit Type Item Unit Serial Number CIVIL-ABU DHABI ADAT STRUCTURE & C. Department Organization Physical Locator 0 Sub Inventory Priority Visit Status Planning Service Category Service Request Project Template ADAT Commercial Temp Simulation Plan **Primary Plan** 31-AUG-2014 Hour 13 Start Date Minutes 01 Minutes 00 Planned End Date Hour 00 End Date Due By Date DAMAGE ON UPPER SURFACE DUE TO SLING BROKE. REFER W/O# Description AUH10164728, VISIT# 755836. B777-300ER/ A6-ETC. Cancel Revert Validate Creation/Search Customer Import Thrid Party Visit Update Sign Help Home Search/Creation Closure Printing Visits Routes & MRs Enquiry Visit Out Visits Copyright 2003. Oracle Corporation. All rights reserved.

Oracle Complex MRO Parts Data Tracking WorkFlow Production Report Production Home Technician Management Notifications Monitor Planning Submission Reports Production Defect Material Search Sign Profile Out Help Management Txn EER Work Orders Search Product Logged In As SSHAHMUGANATHAN General Additional Attributes Item Instance Details Assets Party Relationships Item Instance: 1807013 Item: 314W1400-9 Owner Item Description: COWL INLET Parties Accounts Contacts General Attributes Summary Organization Name CIVIL-ABU DHABI Instance Name Pricing Last Version Label AS_CREATED Version Label Date 29-JUN-2011 12:06 Counters Revision New Version Label Contracts External Reference Ge Notes Item Instance Type Accounting Classification Customer Product Transactions Serial Number 001114 Service Requests Operational Status Not Used Repair Orders Lot Number 17 11 Status CREATED Condition Unserviceable History Operating Units Quantity 1 UOM Each Configuration Start Date 12-JUN-2011 Start Time 0:00 Shipped On Date Shipped On Time End Time Return By Date Return By Time Actual Return Date Actual Return Time 1 Indicates required field. Fig. () in (2) is 10021101hate. This remarks seeks Create item tostance ✓ Creation Completed Party Type Party Party Name: ETIHAD AIRWAYS(EY) Party Number: 26550 Account Number: 400 Account Name ETTHAD AIRWAYS Current Location * Type Inventory Organization Name CTVII - ARLI DHARI Sub-Inventory Name AUHCCOMPSP Locator C.00.X.00.AUHCCOMPSP.... Installed At * Installed Date Installed Time First Cornel is BH24-5936 Change in installed date does not allong a correct date Type Party Site Party Name ETIHAD AIRWAYS(Go Party Number 26550 60 Line 1 NEW AIRPORT RO. Go Site Number 11070 Go Address NEW AIRPORT ROAD, POST BOX 35566 Abu Dhabi, AE Order Sales Order Number Sales Order Date Sales Order Line Purchase Order Number Agreement Name Co. ✓ BOM Enabled ✓ 18 Trackable ✓ Inventory Trackable ☑ Sellable Shippable Item Views ✓ Merchant Customer Descriptive Flexifields Leased From Context Value Tool Calibration Details Select Context Value and click. Gold as how relevant fields Serial Comments Serial Status Unserviceable Source Location RPC Last Service Next Service Work Order Status Alert Receivers

Work Search Home Data Parts Tracking Notifications WorkFlow Production Report Production Defect Material Search Profile Sign Help Orders Product Reports L'anagement Txn EER Profile Out Copyright 2005, Ocade Corporation All rights reserved.

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BMSS-154TY2CL1GR5-YD	5 YD	5 YD	STOCK	Vendor offered PN: BMS5-154TY2CL2GR5, Pls advise if acceptable
BMS8-124T5CL6G3.0X1"	10 SF	1 SHEET	No Stock	L/T 2weeks
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ADAT/PP/2019 Issue 15 (Oct 2013) REV3

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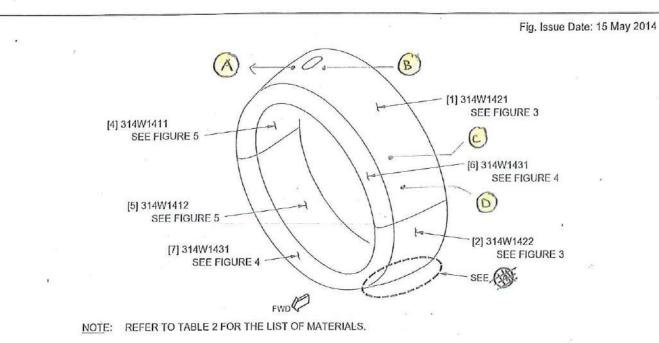
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DO NOT USE AFTER:

54-13-01-0I-1 IDENTIFICATION 1 - Inlet Cowl Skin - GE90-100 Series Engine EFFECTIVITY: ALL

Issue Date: 15 May 2014



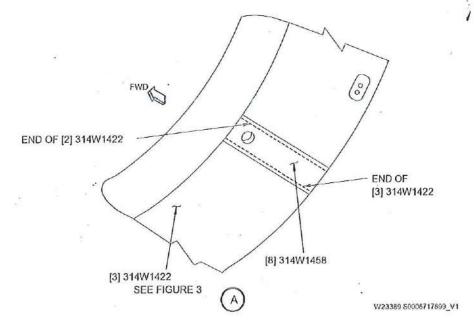


Figure 2. Inlet Cowl Skin Identification - GE90-100 Series Engine - Sheet 1



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DO NOT USE AFTER:

54-13-01-2R-2 REPAIR 2 - Inlet Cowl Outer Barrel Skin - GE90-100 Series Engine EFFECTIVITY: ALL

Issue Date: 15 May 2014

1. Applicability

A. Repair 2 is applicable to the Inlet Cowl Outer Barrel panel for the GE90-100 Series engine shown Figure 201/REPAIR 2.

Figure 201. Inlet Cowl Outer Barrel Panel Location - GE90-100 Series Engine

Sheet 1

2. General

- A. Get access to the damaged area. Remove the inlet cowl outer barrel panel if necessary. Refer to AMM PAGEBLOCK 71-11-01/401.
- B. Do an inspection of the damaged area to find the dimension of the damage. Boeing recommends that you use an instrumented Non-Destructive Inspection (NDI) procedure. Refer to NDT Part 1, 51-01-00 for instructions on how to select an inspection procedure.
 - NOTE: Other inspection methods that have been examined and found satisfactory by the operator can be used.
- C. Refer to Figure 202/REPAIR 2 for the definitions of the facesheets of a honeycomb panel.
- D. For repair of the expanded aluminum foil mesh (BMS 8-336), refer to 51-70-14, REPAIR 4.
- E. Make sure the aerodynamic smoothness is satisfactory or there will be a decrease in the economic performance of the airplane. Refer to 51-10-01, GENERAL.

Figure 202. Definitions of the Facesheets

Sheet 1

3. References

Reference	Title
51-10-01, GENERAL	Aerodynamic Smoothness Requirements
51-70-04, REPAIR GENERAL	Repair Procedures for Wet Layup Materials
51-70-05, REPAIR GENERAL	Repair Procedures for Preimpregnated Materials
51-70-14, REPAIR 4	Procedures for Repairs with Expanded Aluminum Foil Mesh (BMS 8-336)
AMM 51-21-10 P/B 701	DECORATIVE EXTERIOR PAINT SYSTEM - CLEANING/PAINTING
AMM 71-11-01 P/B 401	INLET COWL - REMOVAL/INSTALLATION
NDT Part 1, 51-01-00	Orientation and Preparation for NDT Tests
SOPM 20-44-04	Application of Urethane Compatible Primer

4. Repair Instructions

- A. Refer to Table 201/REPAIR 2 for the repair data that is applicable to damage of the Inlet Cowl Outer Barrel
- B. For a repair made with wet lay-up materials and cured at 200°F (93°C), refer to 51-70-04, REPAIR GENERAL.
 - NOTE: The composite repair limits referred to in Table 201/REPAIR 2 of this repair require two structural plies on top of the one-for-one damaged ply replacement. Refer to Figure 201/REPAIR 2 for the ply orientation.
- C. For a repair made with preimpregnated materials and cured at 350°F (177°C), refer to 51-70-05, REPAIR GENERAL.
- D. Apply one layer of BMS 10-79, Type III primer on the outer face (tool side facesheet) of the outer barrel panel. Apply one layer of BMS 10-103 Type I primer on the inner face (bag side facesheet) of the outer barrel panel. Refer to SOPM 20-44-04.
- E. Apply a finish to the reworked area as given in AMM PAGEBLOCK 51-21-10/701.

 Table 201.



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DO NOT USE AFTER:

Issue Date: 15 May 2014

54-13-01-2R-2 REPAIR 2 - Inlet Cowl Outer Barrel Skin - GE90-100 Series Engine EFFECTIVITY: ALL

REPAIR DATA FOR TH	E INLET COWL OUTER BARREL SKIN - GE	
TYPE OF REPAIR	PERMANENT R	EPAIR
REPAIR CURE TEMPERATUR	WET LAYUP 200°F (93°C) CURE	PREIMPREGNATED LAYUF 350°F (177C) CURE
REPAIR SIZE AND LIMITS FOR SOLID LAMINATE AREA	Repair of solid laminate edgebands is not permitted	There are no size limits on the repair
REPAIR SIZE AND LIMITS FOR HONEYCOMB AREA	14.5 inches (368 mm) in diameter (D) maximum, and not more than 33 percent of the smallest dimension of the honeycomb panel at the damage location. Total repaired area for each panel not more	
	than 3.0 square feet (2787 square cm). The repair is limited to one facesheet and honeycomb core.	
	Use one repair ply for each damaged ply of the panel plus two more structural plies; One ply at 0 degrees and one ply at +/- 45 degrees. Refer to Figure 201 for the ply direction.	
	The repair must be a minimum of 6 inches (152 mm), edge to edge, away from another repair or damage location.	
	The repair must be a minimum of 2.0 inches (51 mm) or one diameter (D), that which is larger, away from the edge of the honeycomb.	
	For repairs to the inner skin the overlap for each ply is 1.00 inch (25.4 mm). For repairs to the outer skin the overlap for each ply is 0.50 inch (13 mm).	
REPAIR INSTRUCTIONS	Refer to 51-70-04, REPAIR GENERAL	Refer to 51-70-05, REPAIR GENERAL

BUEING

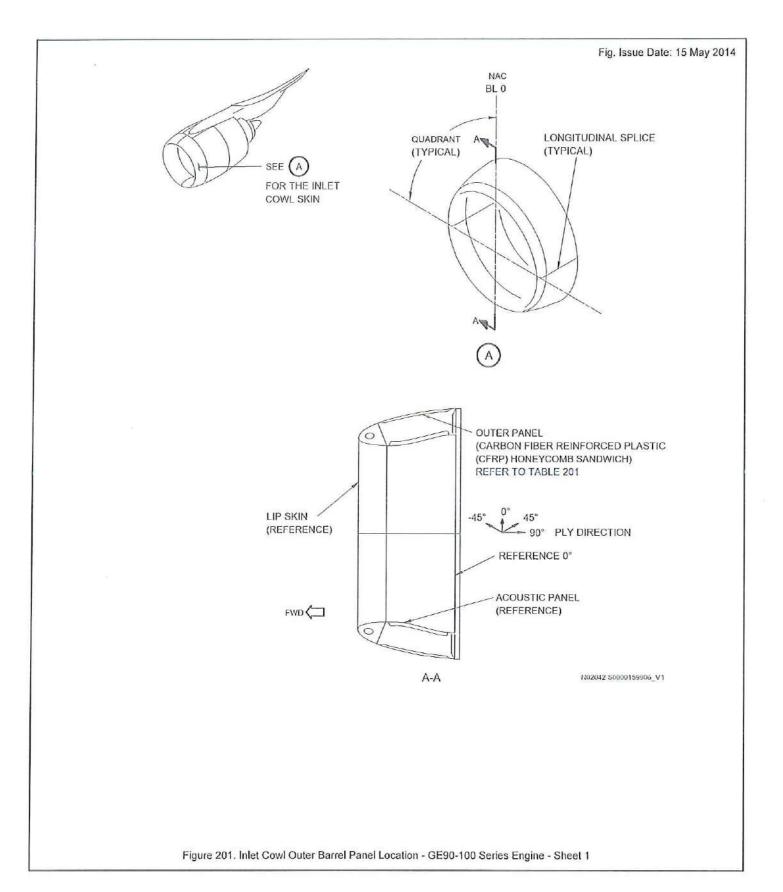
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DO NOT USE AFTER:

54-13-01-2R-2 REPAIR 2 - Inlet Cowl Outer Barrel Skin - GE90-100 Series Engine

EFFECTIVITY: ALL

Issue Date: 15 May 2014



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Rev 49 - 15 May 2014

EFFECTIVITY: ALL

Issue Date: 15 May 2014

Fig. Issue Date: 15 May 2014

(INNER SURFACE OF THE OUTER PANEL) TOOL SIDE FACESHEET (OUTER SURFACE OF THE ACOUSTIC PANEL) BAG SIDE FACESHEET HONEYCOMB CORE

Figure 202. Definitions of the Facesheets - Sheet 1

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TECHNICAL SERVICES > ADAT/TS/8024A ISSUE 21 (JUNE 2014)

Engineering Enquiry / Request (Refer to ADAT/TS/8024A/Instructions in eDOC for filling instructions)





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CODE : 57	☐ Aircraft ☐ Engine	Component	
ATA No. : '72	Release Authority : 🔲 EASA	□ FAA □ □ GCAA:	
Manual Seq No.: 19416 H	Other ((Specify):	
cMRO Seq. No : 6669634	Acfl/Eng/Comp Input Date & Time:		
Page 01 : of	Acft/Eng/Comp Departure Date & Time :		
PART (A): INITIAL ENQUIRY / REQU	FST (To be filled out by Base/Line Station	/Enging Continue/Company Co-	1
SUBJECT: NLET COWL P/			1 130 05
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Part / Component / Assy Name		erial No Component FC/C	1 01
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References (SRM/IPC/AMM/CMM/OHM/OT	3.00	Aircraft/Engine/Component Lo	cation
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The best series			

Engineering Enquiry / Request (Refer to ADAT/TS/8024A/Instructions in eDOC for filling instructions)



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Structural Damage/Repair - Record

Part I Aircraft/Component Damage Details (to be fi	ledrout by A&C/STR Heavy/Light/Line Maintenance Organization)
Aircraft Type/MSN/Reg.: B777-200LR/36304/A6-LRE	SDRR No. (EY Freet Mgt. Control No.) 8777 - 36304 - 54 - 6015
Aircraft / Component CSN : 3657	Aircraft / Component TSN: 32267:58
Affected Part: LHENGINE INLET COWL LIP SKIN	PN: 341W1400-9 SN: 001114
Visit No./Type: 1077799 / C3+17A+CABIN RECONFIG	NRC/ATL Ref. No: 4022 ATA: 54 -00
Description of Defect: (incl. damage type, affected sub part a FOUND ON THE EXTERNAL SUP UPPER LIP ASSY HALF	nd general location) SURTACE CORROSION FACE OF LEFT INLET CONL
Damage Dimension: mm (in) Length, L: 14.61 Width, W: 11 Depth, D:	Diameter, Ø: Area, A;
Original Thickness, t: () - () 7 7 Max. Material L Damage Location Frame, FR: from to Stringer, STGR: from	to (<i>LH/RH</i>) Rib: from to
	ne, WL: from to
Orientation (view looking fwd / aft): FWD Radial (c	legrees or clock) position: 10°0 C LOCK - 2°0 C LOCK
Report any previous repair in the area:	
Inspection Reference: Was damage found during SB/A SB/EO No.:	
MRB/MPD/AMS/ALI/Task No.: EY_B777-71-8	36-01-01
	emal Leakage
Part II. Damage Assessment (to be filled out L	y A&C or STR Heavy/Light/Line Maintenance Organization)
Damage within Allowable Limits Yes No, Contact E	ngg, Technical Request No. TR 21371 H No, Replaced
Repair Approved by RMICMM/AMM:	Repair Approved by: RDAS, FAA, RDR, Part21 DOA
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Structural Damage/Repair - Record

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Damage Repair within Allow	able Lin	nits?		Repair within SRM /AMM/CM	M?					
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SISUI ETIHAD AIRWAYS ENGINEERING

Non Routine Work Card (Continuation sheet)

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Non Routine Work Card (Continuation sheet)

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MATERIAL USAGE REPORT

Report Date: 12-APR-2016 06:45

Page 1 of 1

VISIT NO: 1077799 A/C REGISTRATION:

A6-LRE CUSTOMER:

ETIHAD AIRWAYS(EY)

REMARKS			
SERIAL NO.			
LOT NO.		AUH0035796194	
UOM		KT	
*RETURNED QTY		0	
ISSUED		t −l	
DESCRIPTION ISSUE	AUH14771999	COATING, CHEMICAL, 20 KG KIT	
SRN MFR PN LTEM	WORKORDER:	1 ALOCROM1200AB 20KGKIT	

ENGINEER SIGNATURE the stated work order and consumed/installed on the mentioned aircraft in accordance with the applicable TPM procedure.

that the above material has been Ordered against

This certifies

EYEng 2449 **ENGINEER STAMP NO**

*IMPORTANT NOTE: Please indicate quantity of unused 'S' spares

being returned to store and "Marked for return" in the column

above.



Tool Measurement Recording

(1) Visit No.	1077799	Task Card No NRC 4022
(3) A/C Type	B777-200LR	A/C Reg. A6-LRE
(5) Tool Description	FDDY CURRENT	
(6) Tool PN	M2N3L	7) Tool S/N Se 5964
(8) Task Description	TO DETECT CRA	CK CORPOZION-
	(a) Record I	Measurement
UNIT OF P	IEASUREMENT: KHZ	
(10)		
Certified By Name: VE心と	Signature:	Stamp: EYEng Date: 🔿 🗞 🗚 P 🚨 201 👢

As per TPM 2-26 and TPM 2-17 Para 37 the Form should be used whenever the task card has no appropriate stages/steps to record the tool measurements.

EYEng/PP/001

Issue 03

Dec 2015

Page 1 of 2



Tool Measurement Recording

visit Nos	10 77799	rask Caro No	Num 14771989.
O AVC Type	B777-800LR	A/C Reg	AL-LRE.
N5) Tool Description	TG410 Them menin	- 100 - 100	
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As per TPM 2-26 and TPM 2-17 Para 37 the Form should be used whenever the task card has no appropriate stages/steps to record the tool measurements.

EYEng/PP/001

Issue 03

Dec 2015

Page 1 of 2





(Refer to EYEng/TS/802	4A/Instructions in	eDOC for	filling ins	structions)						1-21	
CODE B7		N X	Airc	raft [Engine	□ Co	mpone	Product	ion Planing		
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cMRO Seq. No 8		Aircra	ft / Engin	ne / Comp In	put Date & Tir	me: 29-1	/AR-201	6			
Page	1 of 2	Aircra	ft / Engin	ne / Comp D	eparture Date	& Ťime : 21 -/	APR-2016	6			
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Technical Request

(Refer to EYEng/TS/8024A/Instructions in eDOC for filling instructions)	
Code: B7 cMRO Seq No: 8621808	Page No: 02 of 02
ATA No: 54 Manual Seq No: 21371H	Customer: ETIHAD AIRWAYS
All clair? Engine? Somponent & Registration? Ort. B//	7-200LR / A6-LRE / 36304
PART (B) Design, Engineering and Innovation FINA	
(Sheet 1 of 1) This TR is CLOSED: Yes No	ST IN AV SY PP
Received: Date: 04.03.2016 Time: 15:30	Replied: Date: 06.03.2016 Time: 10:15
REFERENCES: /A/ BOEING MSG # GMO-ETI-16-0034-04B /B/ B777-200LR SR	M 5413011
ACTION:	NOTE: This TR response is for one time use only.
In response to Part A of this TR ,kindly find belo	
Engineering has reviewed the reported damage in F	art A and provides the following response:
1. Remove the damage per 777-200 SRM 51-10-02 smoother.	Maintain a surface finish of 125 micro inches Ra or
2 Accomplish on HEEC surface inspection per 777	NDT Manual Part 6, 51-00-01 or Fluorescent Penetrant
, , , , , , , , , , , , , , , , , , ,	evel-3 or higher on the reworked areas to ensure all
3. The allowable damage limits for the inlet cowl lip : Damage 1 references apply. See Figure 103, Details	skin provided in 777-200 SRM 54-13-01 Allowable
4. Provided the allowable damage limits in 777-200 exceeded, apply Alodine 1200 per SOPM 20-43-03	SRM 54-13-01 Allowable Damage 1 references are not to the blended areas.
T Defect (Non Poutine (N	P) II accounting II / Mark Order (MO) (New fineth)
	R) [Legacy fleet] / Work Order (WO) [New fleet]) t (MR) [Legacy fleet] / Adhoc Job Instruction Card (Adhoc JIC) [New fleet]
) / Aircraft Technical Log (ATL) Entry
A For 3 rd Party Customer –	DD) / Aircraft Technical Log (ATL) Entry ***
Limitations/Threshold/ Interval /Inspection method :	
S Structural Damage/Repair Record (SDRR) (Form QA871 is for	Etihad only) ***
E ☐ Reflect on the D & B and (External Damage Record Sheet (ED	
☐ For 3 rd Party Customer only – If Corrosion, Level: ☐ 1 ☐ :	
	e its maintenance program to Level 1. Reflect this note in repair records.
	Customer unless contracted. This recording requirement(s) must be
50000000 (contracted, it is recorded on the customer equivalent documentation.
THE TECHNICAL CONTENT OF THIS DOCUMENT IS APPRO	
☐ EASA Part 145.A.45 () ☐ FAA AR / FAA DER * ☐ GCAA CAR 145.45 (b) ☐ RDR	☐ EASA RDAS / RAS * ☐ TA ☐ NAA ☐ DOA Part/CAR 21.J ☐ TV ☐ OTHER
Organization Name/Name: N/A Authorization No.	
EYEng Document Raised RS / RB * DDO EO	EI Drawing(s) Tech Pubs Amndmt Others (Specify)
	JEI E Brawing(s) E recit rubs Armaint E Others (opcomy)
(if applicable): DOCUMENT No : N/A Customer approval for deferred inspection or deferred permanent	repair is required
Customer Name / Signature: N/A	Date: Related PO Raised Ref / Cost: Chargeable to:
Engineering M/Hrs : Chargeable to: Eng. Drafting M/Hrs :	
Eng. Drafting M/Hrs :	Approved by:
Ehab B. Al-Zoubi	IDV NIKODI
Design Engineer	11 V. VIPITA/NE (W
Name/Title Signature	Name/Title / Signature
IMPORTANT: 1. ANY DEVIATION OUTSIDE THE SCOPE OF APPROVALS I AUTHORITY, OR IT'S DELEGATED APPROVAL HOLDER,	IELD BY EYENG MUST BE APPROVED BY THE APPLICABLE AIRWORTHINESS
· ·	ATTACHED TO THIS TR (example: RDAS, FAA FORM, EYEng DDO, etc.)

BOEING

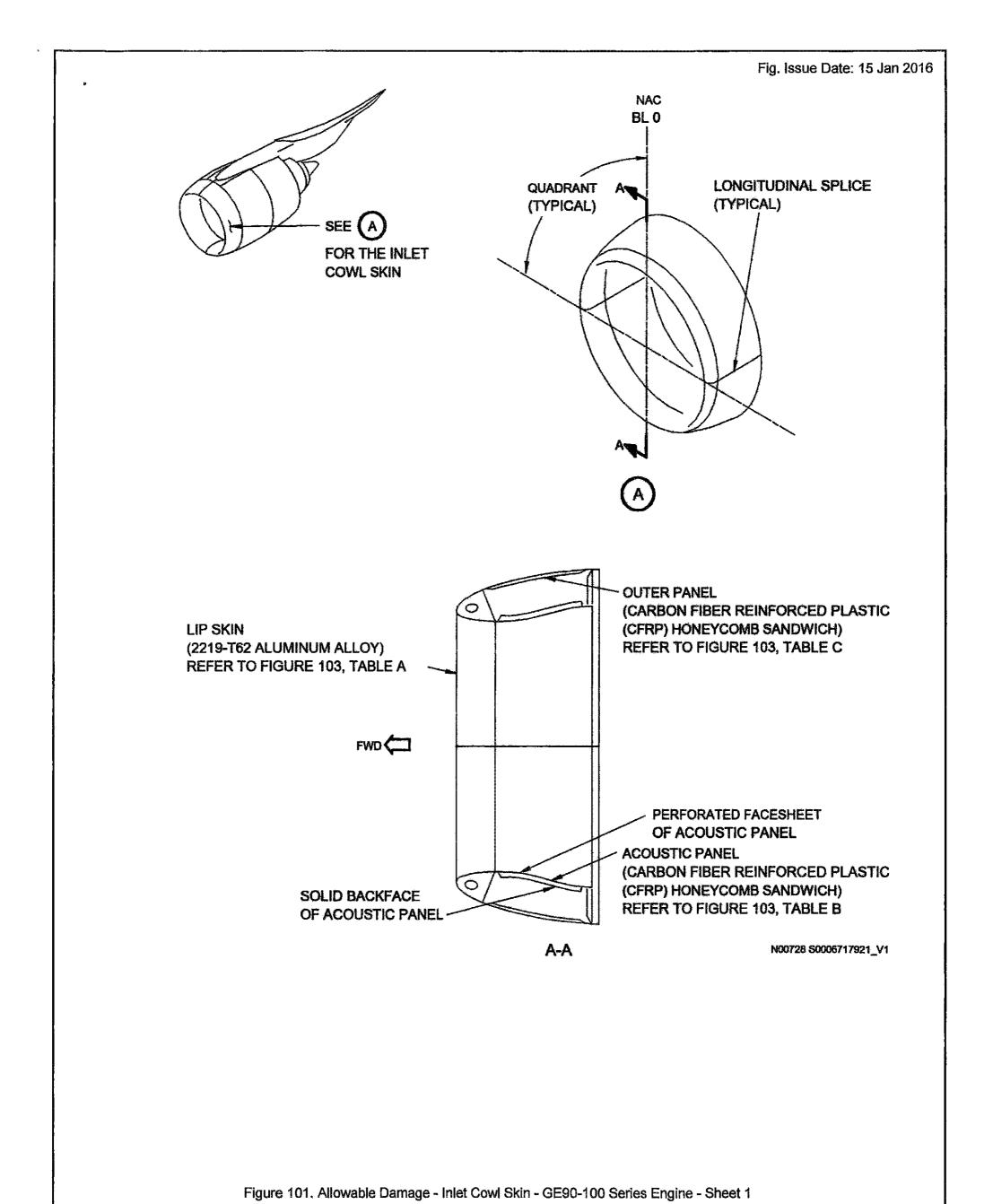
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DO NOT USE AFTER:

54-13-01-1A-1 ALLOWABLE DAMAGE 1 - Inlet Cowl Skin - GE90-100 Series Engine

EFFECTIVITY: ALL

Issue Date: 15 Jan 2016





Printed by Toolbox: 04 Apr 2016, 16:13:44

DO NOT USE AFTER:

Issue Date: 15 Jan 2016

54-13-01-1A-1 ALLOWABLE DAMAGE 1 - Inlet Cowl Skin - GE90-100 Series Engine

EFFECTIVITY: ALL

Fig. Issue Date: 15 Jan 2016

ÁLŁOWABLE DAMAGE LIMITS - INLET COWL LIP SKIN							
DESCRIPTION	NICKS, GOUGES AND SCRATCHES	DENTS	CRACKS	HOLES AND PUNCTURES			
LEADING EDGE SKIN (ALUMINUM)	SEE DETAILS A, B, C, AND D	SEE DETAIL E - DAMAGE MINIMUM SPACING 15.0 INCH	- FOR CRACKS AT THE EDGE SEE DETAILS B, C, AND D - FOR SURFACE CRACKS SEE HOLES AND PUNCTURES	- MAXIMUM 0.25 INCH (6.35 mm) DIAMETER - DAMAGE MINIMUM SPACING 4D FROM AN ADJACENT HOLE, FASTENER OR OTHER DAMAGE			
			1	- 1.5D FROM THE EDGE OF THE PART			

TABLE A

	<u> </u>					
ALLOWABLE DAMAGE LIMITS - INLET COWL ACOUSTIC PANEL						
TYPE OF DAMAGE	DAMAGE TO THE CARBON FIBER PLY	LIMIT DESCRIPTION	MAXIMUM DAMAGE LIMITS LENGTH: INCHES (mm) AREA: SQUARE INCHES (SQUARE cm)			
	NO	ANY DIMENSION	NONE			
NICKS, GOUGES AND SCRATCHES	YES 5	- LENGTH - WIDTH - DEPTH IN PLIES - DAMAGE MINIMUM SPACING	20.0 (508) 0.25 (6) 1 PLY (MAXIMUM) SEE FIGURE 103, DETAIL I			
DENTS	NO	- DIAMETER - DEPTH - DAMAGE MINIMUM SPACING	2.0 (51) 0.050 (1.3) SEE FIGURE 103, DETAIL I			
	YES	ANY DIMENSION	SEE LIMITS FOR HOLES AND PUNCTURES			
HOLES AND PUNCTURES	YES	- DIAMETER - DEPTH - DAMAGE MINIMUM SPACING	1.0 (25) 9 3.0 (76) 10 4.0 (102) 11 ONE FACESHEET AND THE CORE. SEE FIGURE 103, DETAIL I			

TABLE B

Figure 103. Allowable Damage Limits - Sheet 1



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DO NOT USE AFTER:

54-13-01-1A-1 ALLOWABLE DAMAGE 1 - Inlet Cowl Skin - GE90-100 Series Engine EFFECTIVITY: ALL

Issue Date: 15 Jan 2016

Fig. Issue Date: 15 Jan 2016

NOTES

- DAMAGE OF UP TO 5% OF THE THICKNESS IS PERMITTED IN THE AREA OF THE SPLICE FASTENERS.
- A MAXIMUM OF TWO DENTS ARE PERMITTED IN ONE QUADRANT. REFER TO FIGURE 101 AND FIGURE 103, DETAIL E. THE EDGE OF THE DENTS MUST BE A MINIMUM 0.50 (13 mm) FROM ANY FASTENER (COUNTERSINK EDGE).
- 3 NSTALL A NAS 1398D BLIND MONEL RIVET WITH BMS 5-63 SEALANT.
- DENTS GENERALLY RESULT IN FIBER DAMAGE OR DELAMINATION. THE LIMITS FOR DENTS CAN BE APPLICABLE IF NO FIBER DAMAGE OR DELAMINATION EXISTS. IF THERE IS FIBER DAMAGE OR DELAMINATION REFER TO THE APPLICABLE DAMAGE DATA IN TABLE B OR TABLE C.
- 5 DO A PERMANENT SEAL OF THE DAMAGE AS GIVEN IN THE PARAGRAPH GENERAL.
- 6 DELAMINATION IS NOT PERMITTED IN THE CRITICAL AREA SHOWN IN FIGURE 103 DETAIL H.
- 7 DO AN INSPECTION OF THE DELAMINATION EVERY 400 FLIGHT CYCLES. REPAIR THE DAMAGE BEFORE OR AT 4,000 FLIGHT CYCLES.
- B DO A TEMPORARY OR PERMANENT SEAL OF THE DAMAGE. FOR THE TEMPORARY SEAL, DO AN INSPECTION EVERY 400 FLIGHT CYCLES AND DO A PERMANENT SEAL AT OR BEFORE 4,000 FLIGHT CYCLES.
- 9 DO A TEMPORARY SEAL OF THE DAMAGE. DO AN INSPECTION EVERY 400 FLIGHT HOURS. REPAIR THE DAMAGE BEFORE OR AT 4,000 FLIGHT HOURS.
- DO A TEMPORARY SEAL OF THE DAMAGE. REPAIR THE DAMAGE AT OR BEFORE 400 FLIGHT HOURS.
- 11 DO A TEMPORARY SEAL OF THE DAMAGE. REPAIR THE DAMAGE AT OR BEFORE 25 FLIGHT HOURS.
- 12> FOR EDGE DELAMINATION REFER TO EDGE DAMAGE.
- 13 HOLES AND PUNCTURES MUST BE CLEANED UP TO CIRCULAR HOLES BEFORE APPLICATION OF TEMPORARY OR PERMANENT SEAL. MAKE THE ESTIMATE OF THE HOLE SIZE AFTER YOU CLEAN UP THE DAMAGE.

Figure 103. Allowable Damage Limits - Sheet 4



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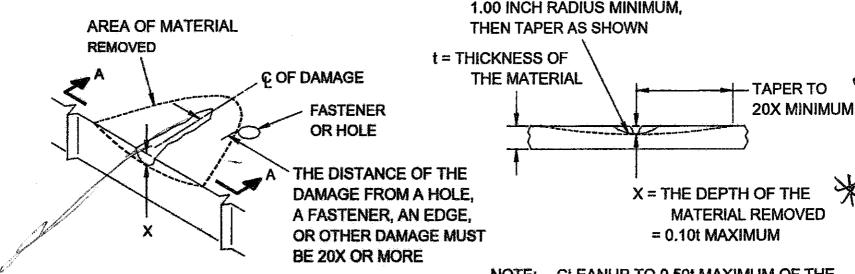
DO NOT USE AFTER:

Issue Date: 15 Jan 2016

54-13-01-1A-1 ALLOWABLE DAMAGE 1 - Inlet Cowl Skin - GE90-100 Series Engine

EFFECTIVITY: ALL

Fig. Issue Date: 15 Jan 2016



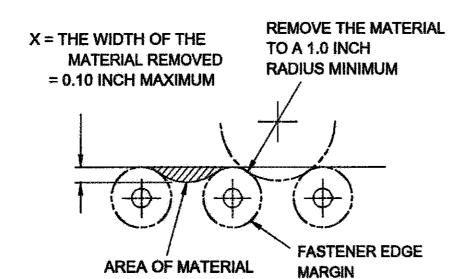
REMOVAL OF DAMAGED MATERIAL ON A SURFACE



NOTE: CLEANUP TO 0.50t MAXIMUM OF THE SKIN THICKNESS IS PERMITTED FOR 25 FLIGHT HOURS, THEN YOU MUST REPAIR THE DAMAGE.

A-A

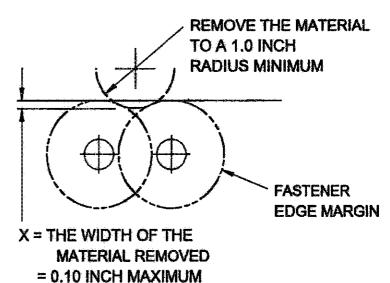
REMOVE THE MATERIAL TO A



REMOVAL OF DAMAGED MATERIAL AT EDGES WHERE THE FASTENER EDGE MARGINS DO NOT HAVE AN OVERLAP

REMOVED





REMOVAL OF DAMAGED MATERIAL AT EDGES WHERE THE FASTENER EDGE MARGINS HAVE AN OVERLAP



N01129 \$0006717927_V1

Figure 103. Allowable Damage Limits - Sheet 5

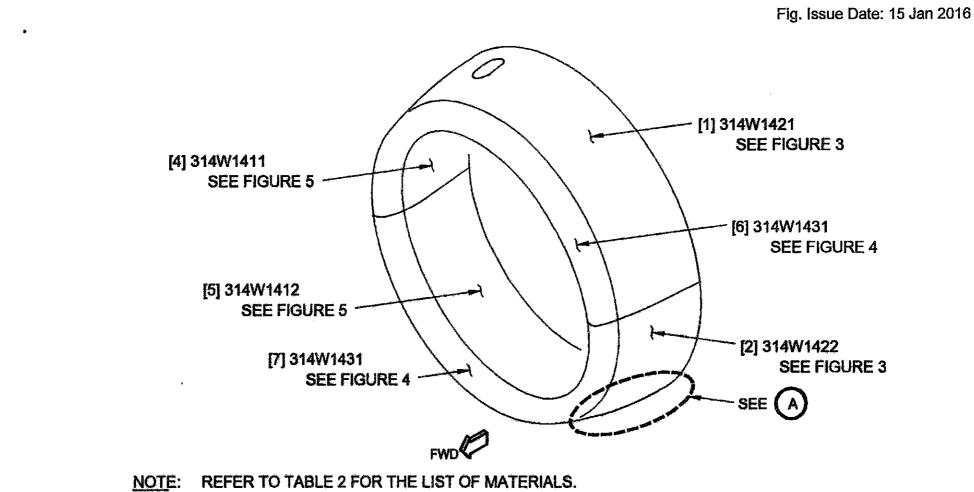
BOEING

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54-13-01-01-1 IDENTIFICATION 1 - Inlet Cowl Skin - GE90-100 Series Engine

EFFECTIVITY: ALL

Issue Date: 15 Jan 2016



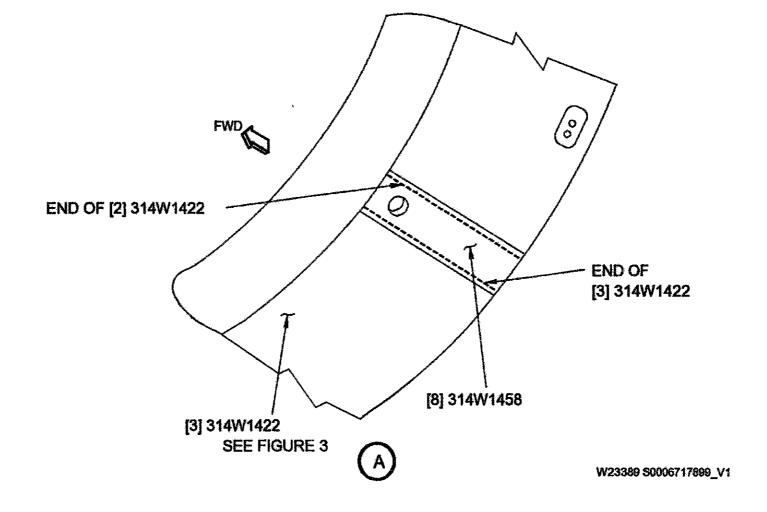


Figure 2. Inlet Cowl Skin Identification - GE90-100 Series Engine - Sheet 1

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DO NOT USE AFTER:

54-13-01-01-1 IDENTIFICATION 1 - Inlet Cowl Skin - GE90-100 Series Engine

EFFECTIVITY: ALL

Issue Date: 15 Jan 2016

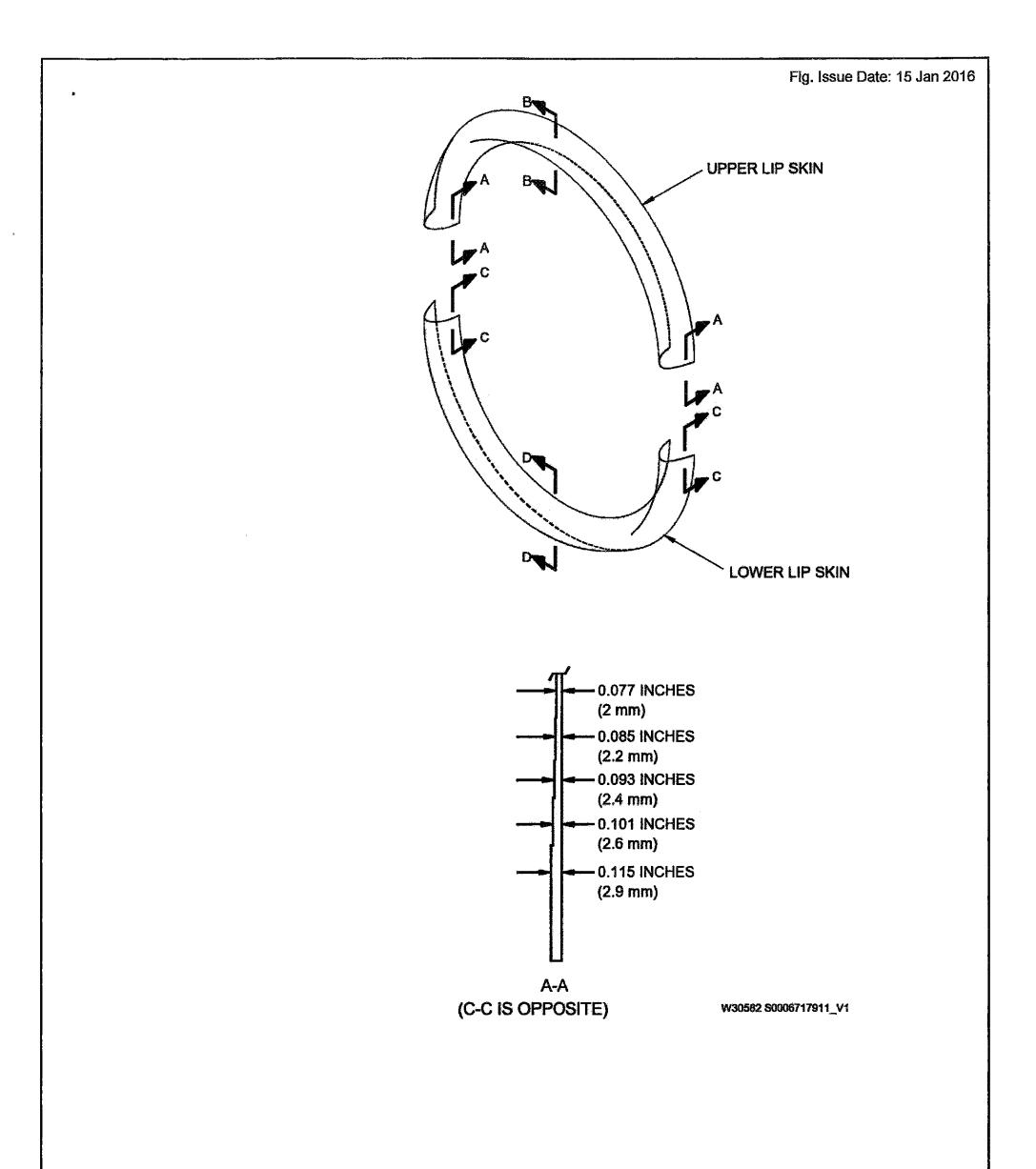


Figure 4. Inlet Cowl Lip Skin - Chem-milled Areas - Sheet 1

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DO NOT USE AFTER:

Issue Date: 15 Jan 2016

54-13-01-01-1 IDENTIFICATION 1 - Inlet Cowl Skin - GE90-100 Series Engine

EFFECTIVITY: ALL

Fig. Issue Date: 15 Jan 2016

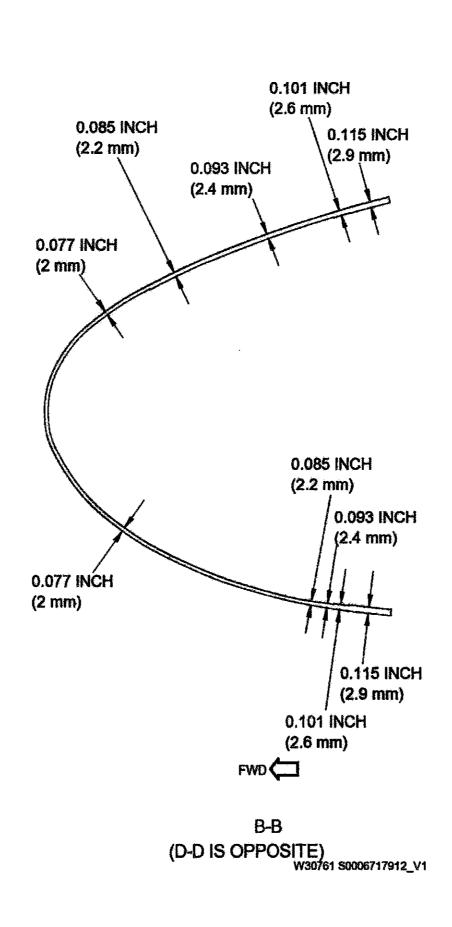


Figure 4. Inlet Cowl Lip Skin - Chem-milled Areas - Sheet 2

TR 21371H - A6-LRE - LH ENG - INLET COWL LIP SKIN - CORROSION

donotreply@boeing.com

Sent: Tuesday, April 05, 2016 11:59 AM

Maintenance Control EYE Duty Engineer; ENG-STR-INT; B777 FLEET MGT Cc:

Attachments: DAMAGE DETAILS.pdf (1 MB)

FROM: Ehab B Al Zuibi, ealzubi@etihad.ae 05-Apr-2016 11:59:34 (GMT+04:00) Abu Dhabi, Muscat / 05-Apr-2016 07:59:34 (GMT)

[MESSAGE NUMBER:GMO-ETI-16-0034-01C]

Your message has been received. If a response has been requested, it will be provided on or before 05-Apr-2016 19:59:59 (GMT)

This message is sent to the following: Duty Engineer Group, Etihad Airways Structures Interiors Group, ADAT 777 Fleet Management, Etihad Airways

SERVICE REQUEST ID: 3-3502286422

PRIORITY: AOG

PRIORITY:
ACCOUNT:
ADAT (GMO)
SR DUE DATE:
FIELD BASE:
PRODUCT TYPE:
PRODUCT LINE:
PRODUCT:

777
PRODUCT:

ADAT (GMO)
05-Apr-2016 19:59:59 (GMT)
BFSAUH-Abu Dhabi-United Arab Emirates
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777-200

5410-00

INQUIRY TYPE: Component Repair FAA Form 8100-9 Requested No Repair

Design Record Requested No

PART NUMBER: 341W1400-9 PART SERIAL NUMBER: 001114

AIRPLANE(S):

Registry Number Variable Number Serial Number Hours/Cycles

A6-LRE

WD015 36304 32,267/3,657

SUBJECT: TR 21371H - A6-LRE - LH ENG - INLET COWL LIP SKIN - CORROSION

REFERENCES:

Message Text:

Description

Dear Boeing Team,

During the current maintenance visit; surface/pitting corrosion was found on LH ENG Inlet Cowl Lip Skin Upper Half, the corrosion is extending all over the lip segment, refer to the attached file for more details.

After reviewing the related SRM reference 54-13-01-1A-1; we couldn?t find any limitation/repair for the corrosion finding.

EYE is intending to remove the corrosion using the sanding method, followed by dye penetrant inspection.

Desired Action

Therefore; kindly advise the limitation/reference for corrosion finding at the

lip skin as well as your acceptance to proceed with the corrosion removal.

Purchase Order Number (if required)

Best Regards,

Ehab B, Al-Zoubi
Design Engineer - Structures
Design, Engineering and Innovation

Etihad Airways Engineering Next to Abu Dhabi International Airport P.O. Box: 46450, Abu Dhabi, United Arab Emirates

Tel: + 971 2 575 7555 Dir: + 971 2 505 8426 Mobile: +971 505665192

24/7 Duty Engineer: +971 50 612 8511

etihad.com

<Not Entered>

The National Airline of the United Arab Emirates

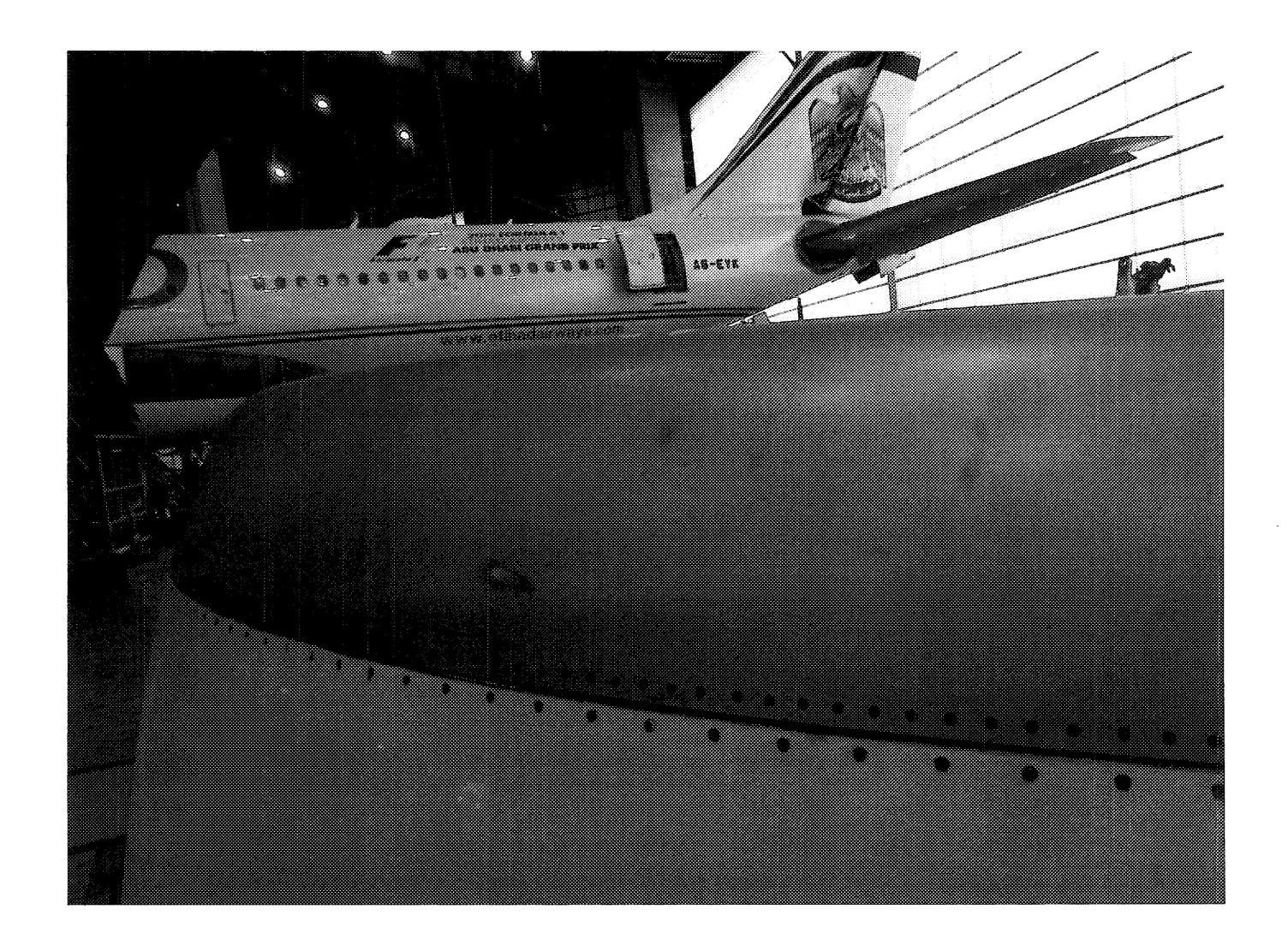
Towards zero emissions, every little helps! Think before you print this email.

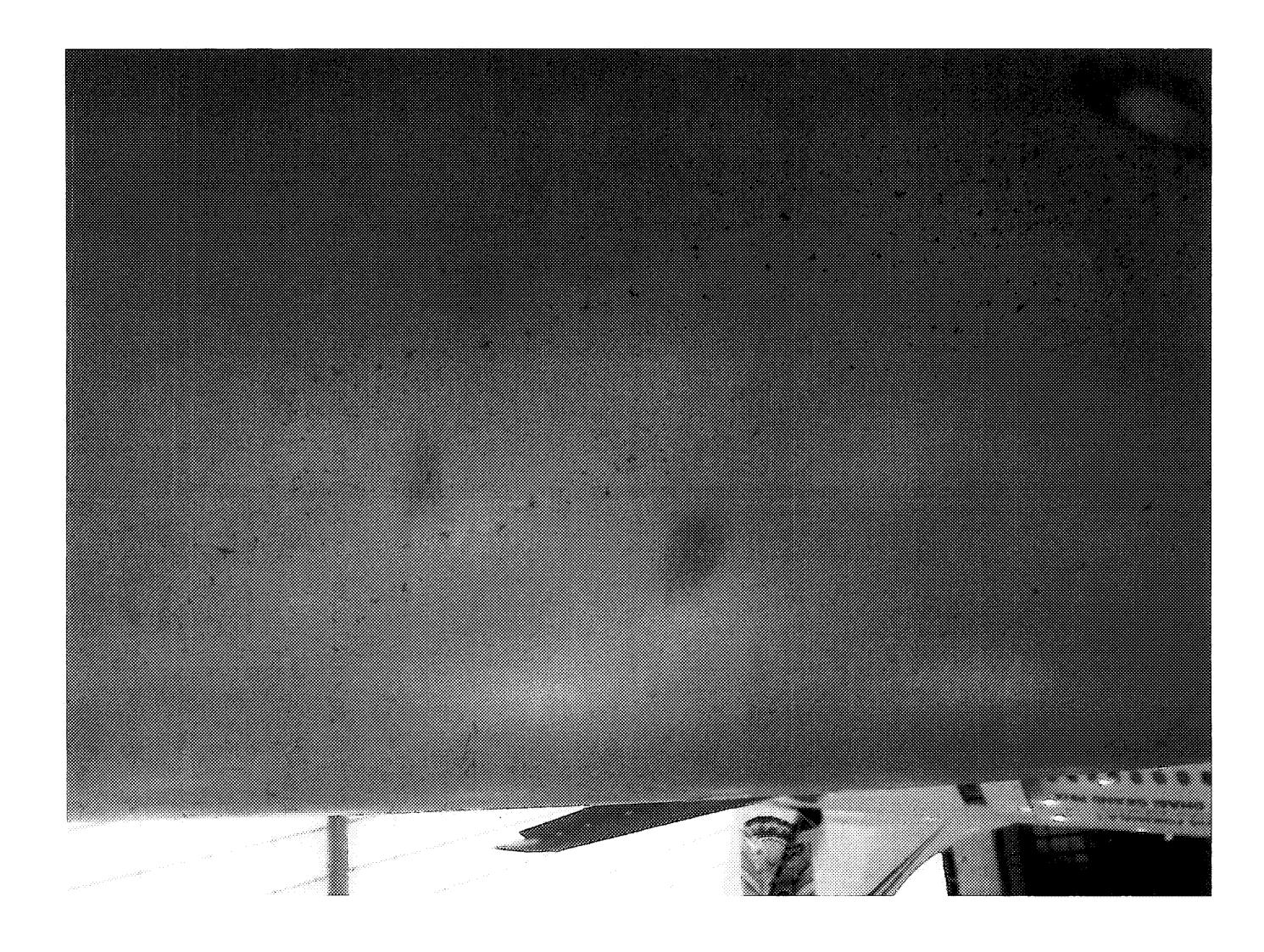
Additional phone contact(s) for AOG submission:

If attachments are referred to, and not present, please contact your local Boeing Field Service Representative. If your local Field Service Representative is unavailable, you may contact the appropriate Airline Support Manager or call the BCA Operations Center at (206) 544-7500.

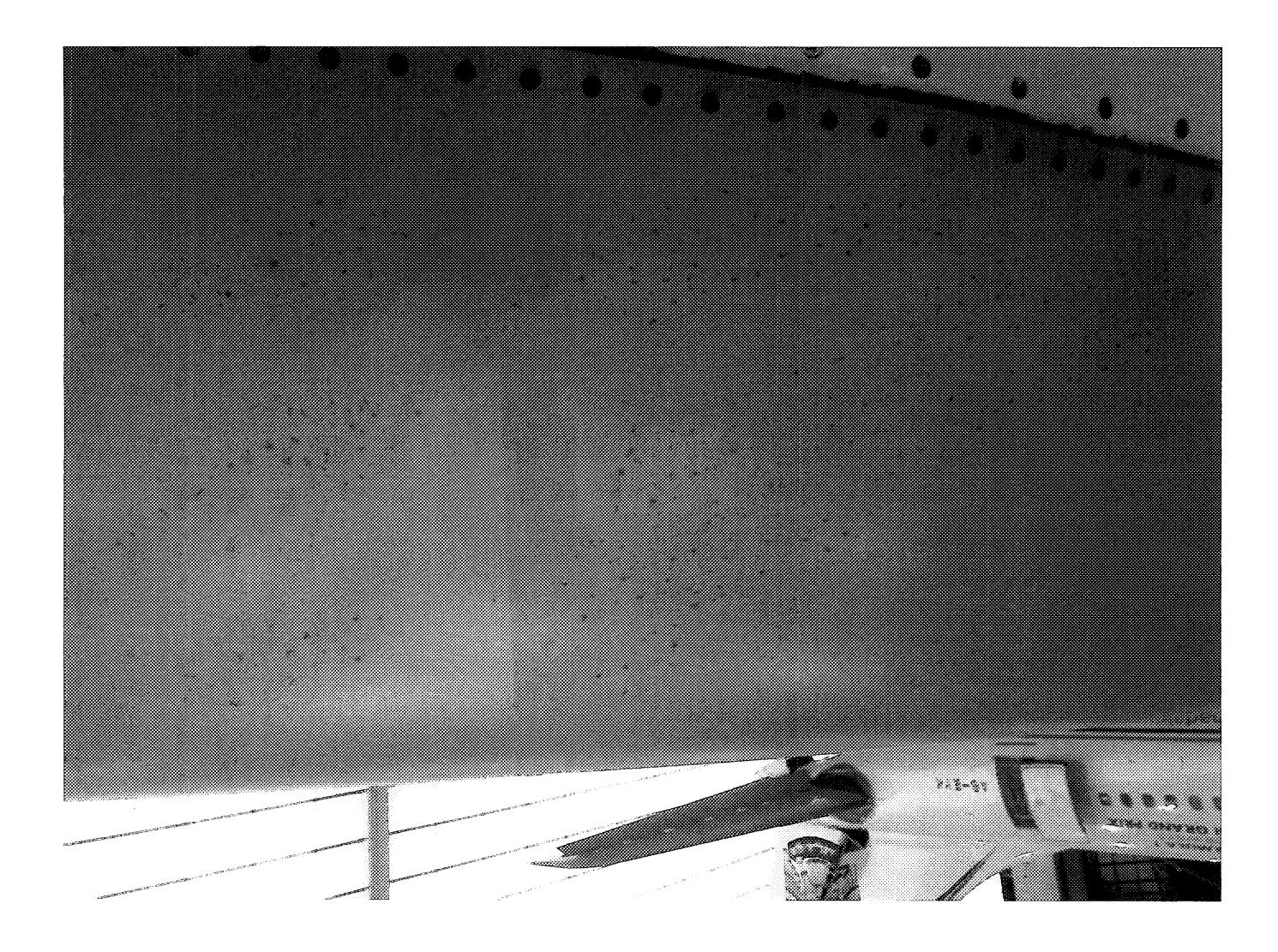
BOEING PROPRIETARY

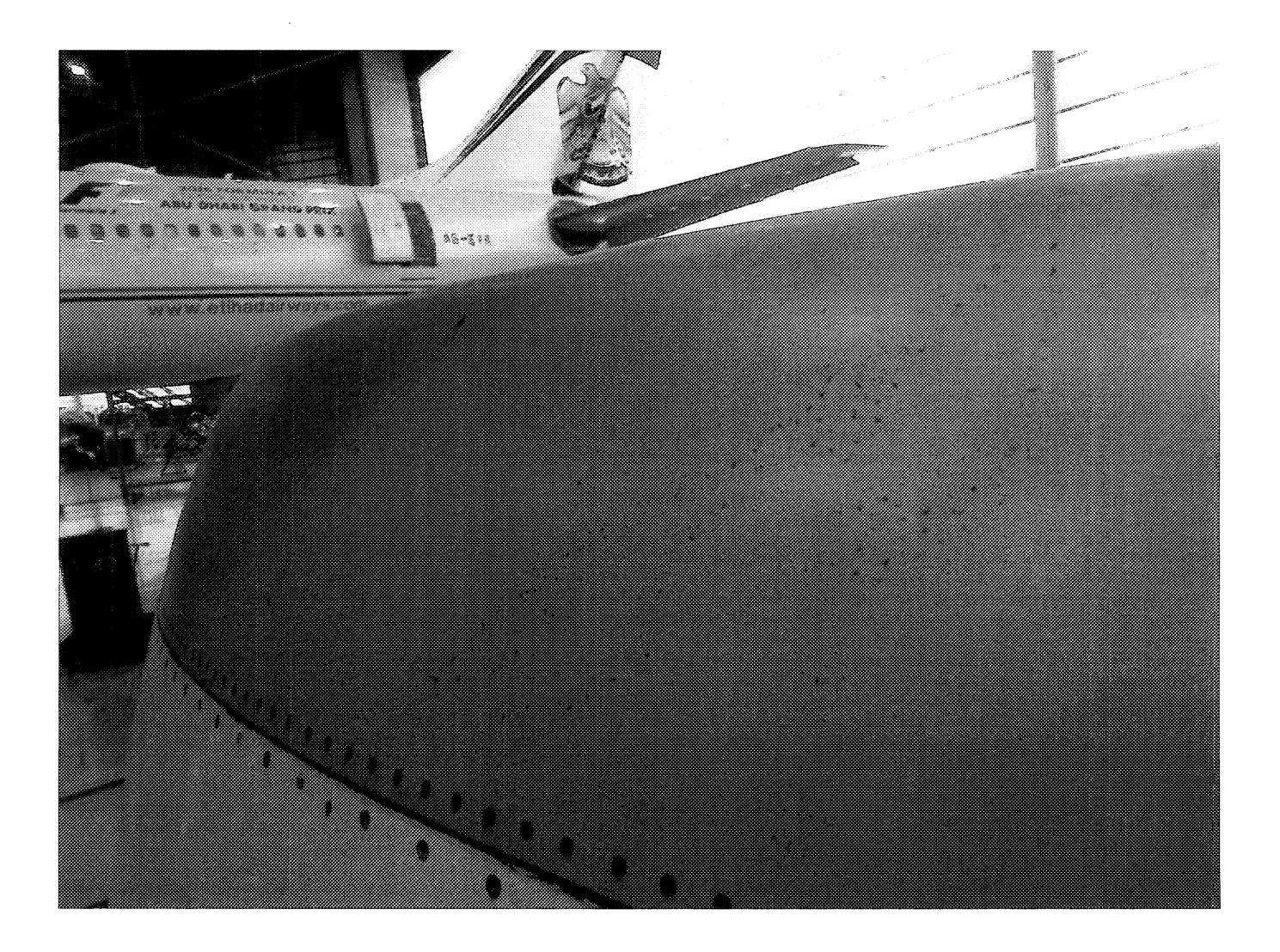
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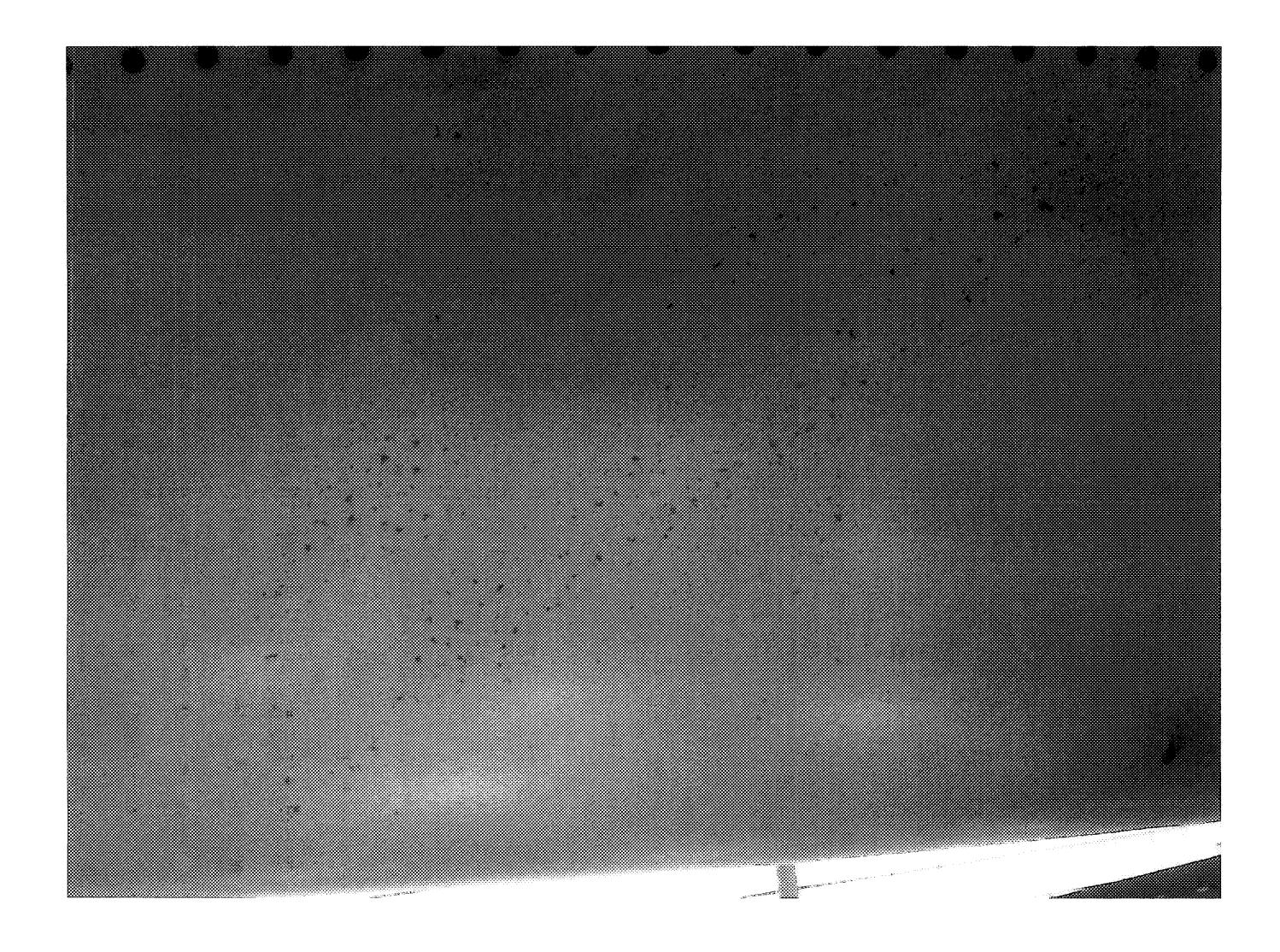


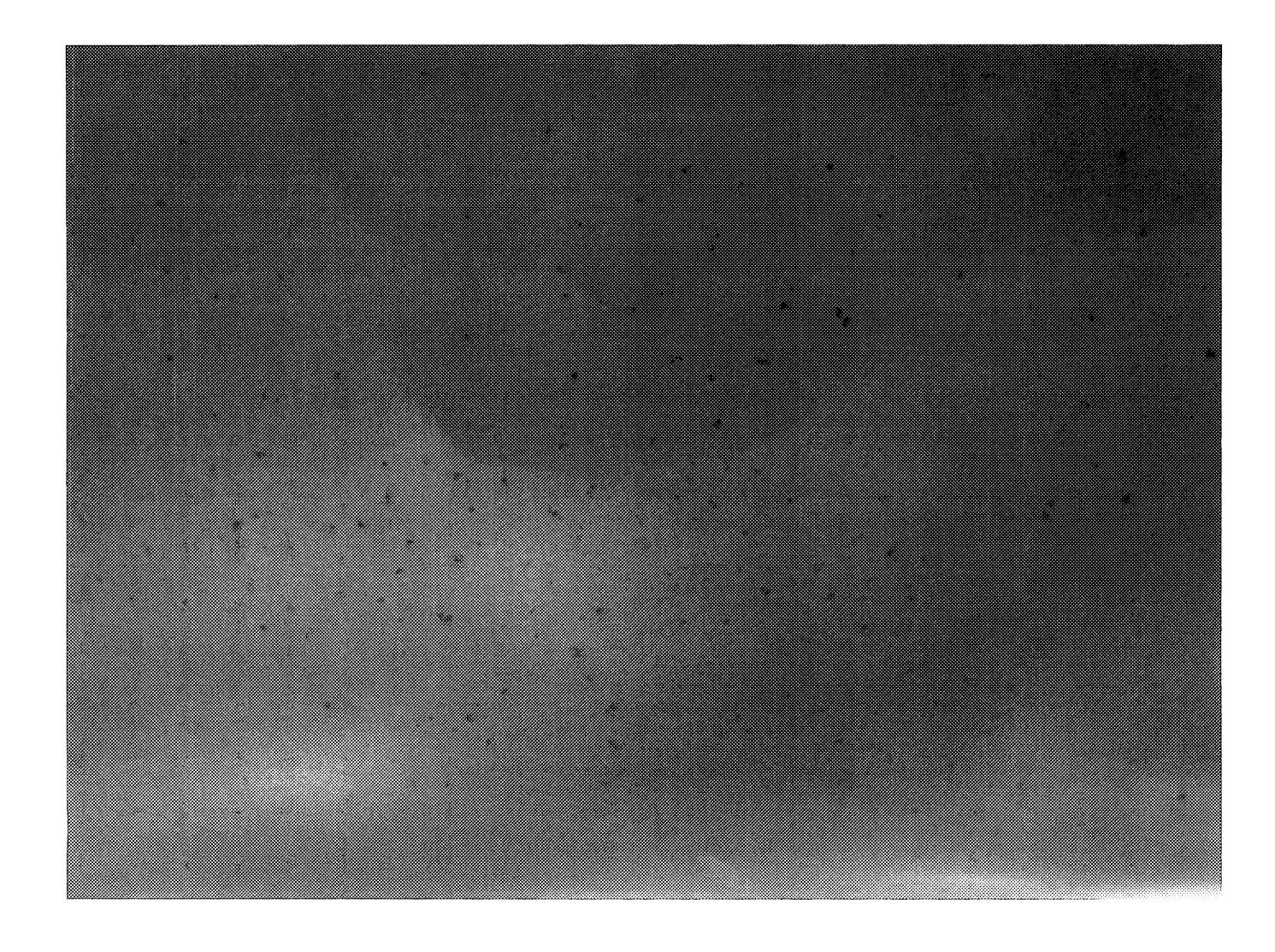


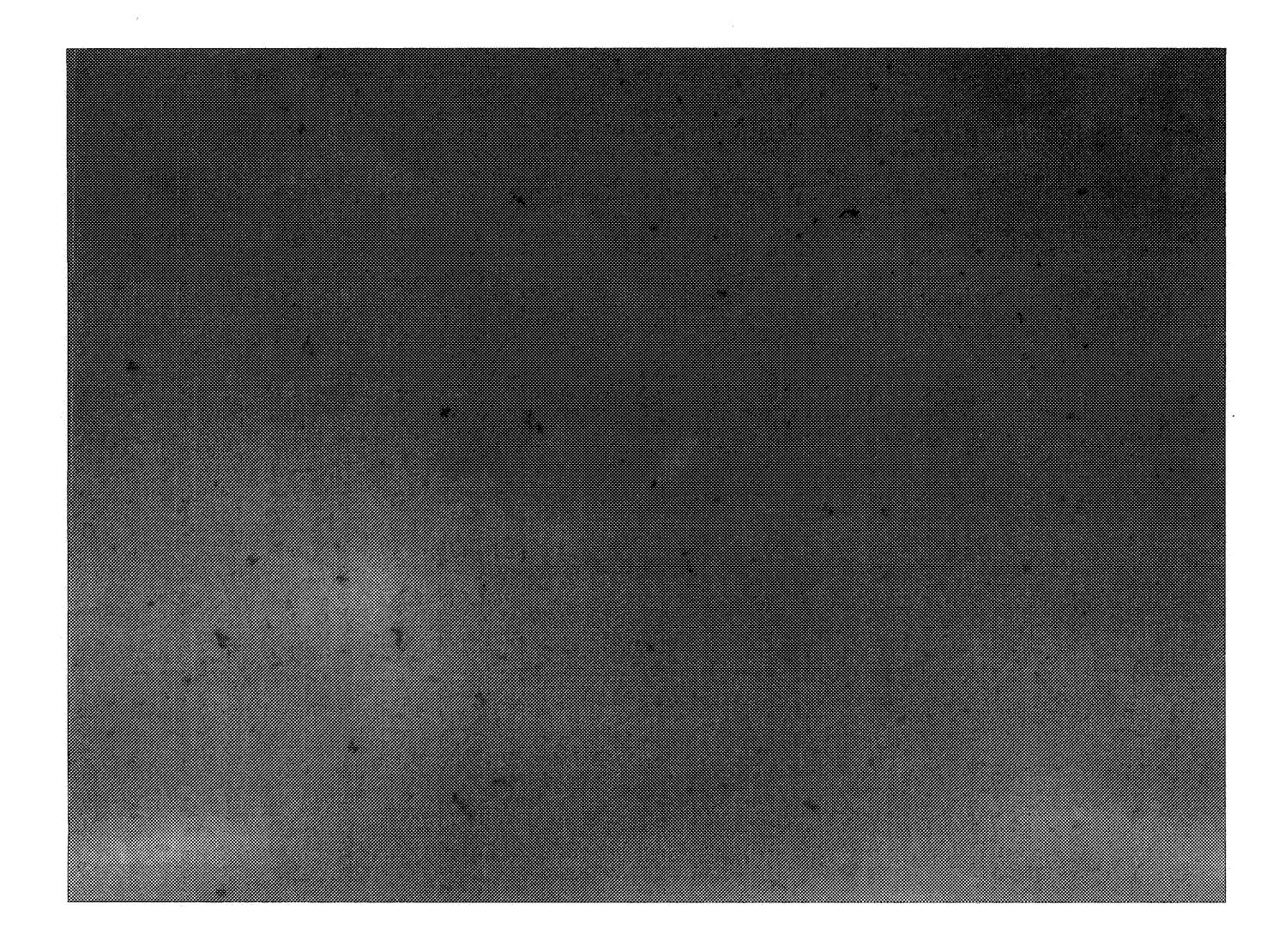
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Boeing Customer Support [csd.boecom@boeing.com] **Sent:** Tuesday, April 05, 2016 6:55 PM

FROM: THE BOEING COMPANY

TO: ADAT (GMO)

[MESSAGE NUMBER:GMO-ETI-16-0034-02B] Customer Input Required MESSAGE DATE: 05 Apr 2016 0755 US PACIFIC TIME / 05 Apr 2016 1455 GMT

The following message is distributed to the following people at ADAT: Ehab B Al Zuibi, Structures Interiors Group

The following message is distributed to the following people at Etihad Airways: 777 Fleet Management, Duty Engineer Group Service Request ID: 3-3502286422

Message Due Date: 06-Apr-2016 23:59 US PACIFIC TIME

Field Service Base: BFSAUH

Service Category: Airplane Model: 777 Series/Product: 777-

ATA: 5410-00 200

SUBJECT: TR 21371H - A6-LRE - LH ENG - INLET COWL LIP SKIN - CORROSION

AIRPLANE (VARIABLE/SERIAL): WD015/36304 REGISTRY: A6-LRE Flight Hours:

32267 Flight Cycles: 3657

INQUIRY TYPE: Component Repair FAA Form 8100-9 Requested: No Repair

Design Record Requested: No

Part Serial Number: 001114 Part Number: 341W1400-9

P/N CAGE Code:

REFERENCES:

/A/ GMO-ETI-16-0034-01C

DESCRIPTION:

Description

Dear Boeing Team,

During the current maintenance visit; surface/pitting corrosion was found on LH ENG Inlet Cowl Lip Skin Upper Half, the corrosion is extending all over the lip segment, refer to the attached file for more details.

After reviewing the related SRM reference 54-13-01-1A-1; we couldn't find any limitation/repair for the corrosion finding.

EYE is intending to remove the corrosion using the sanding method, followed by dye penetrant inspection.

Desired Action

Therefore; kindly advise the limitation/reference for corrosion finding at the lip skin as well as your acceptance to proceed with the corrosion removal.

Purchase Order Number (if required)

Best Regards,

Ehab B, Al-Zoubi
Design Engineer - Structures
Design, Engineering and Innovation

Etihad Airways Engineering Next to Abu Dhabi International Airport P.O. Box: 46450, Abu Dhabi, United Arab Emirates

Tel: + 971 2 575 7555 Dir: + 971 2 505 8426 Mobile: +971 505665192

24/7 Duty Engineer: +971 50 612 8511

etihad.com

The National Airline of the United Arab Emirates

Towards zero emissions, every little helps! Think before you print this email.

Additional phone contact(s) for AOG submission: <Not Entered>

RESPONSE AND/OR REQUIRED ACTION:

ACTION REQUESTED:

Boeing is unable to evaluate your request. Please provide the average depth of the reported surface pitting on the lipskin.

If attachments are referred to, and are not present, please access them by logging into MyBoeingFleet Service Requests application or contact your Boeing Field Service Representative.

https://myboeingfleet.boeing.com/servicerequests/index.html?entityId=31LX4QPL&entityType=CommunicationMessage

Suppliers, please access attachments by logging into Boeing Partner Network Supplier Service Requests application.

Ronald Hikida, Sr. Liaison Engineer Propulsion - 777 Nacelle Andre Moore, Manager Propulsion Service Engineering Boeing Commercial Airplanes

Boeing Customer Support [csd.boecom@boeing.com] **Sent:** Tuesday, April 05, 2016 7:14 PM

FROM: THE BOEING COMPANY

TO: ADAT (GMO)

[MESSAGE NUMBER:GMO-ETI-16-0034-03B] Customer Input Required

MESSAGE DATE: 05 Apr 2016 0814 US PACIFIC TIME / 05 Apr 2016 1514 GMT

The following message is distributed to the following people at ADAT:

Ehab B Al Zuibi, Structures Interiors Group

The following message is distributed to the following people at Etihad Airways:

777 Fleet Management, Duty Engineer Group

Service Request ID: 3-3502286422

Message Due Date: No Action Required

Field Service Base: BFSAUH

Service Category: Airplane Model: 777 Series/Product: 777-

200 ATA: 5410-00

SUBJECT: TR 21371H - A6-LRE - LH ENG - INLET COWL LIP SKIN - CORROSION

AIRPLANE (VARIABLE/SERIAL): WD015/36304 REGISTRY: A6-LRE Flight Hours:

32267 Flight Cycles: 3657

INQUIRY TYPE: Component Repair FAA Form 8100-9 Requested: No Repair

Design Record Requested: No

Part Serial Number: 001114 Part Number: 341W1400-9

P/N CAGE Code:

REFERENCES:

/A/ GMO-ETI-16-0034-02B /B/ GMO-ETI-16-0034-01C

DESCRIPTION:

Description

Dear Boeing Team,

During the current maintenance visit; surface/pitting corrosion was found on LH ENG Inlet Cowl Lip Skin Upper Half, the corrosion is extending all over the lip segment, refer to the attached file for more details.

After reviewing the related SRM reference 54-13-01-1A-1; we couldn't find any limitation/repair for the corrosion finding.

EYE is intending to remove the corrosion using the sanding method, followed by dye penetrant inspection.

Desired Action

Therefore; kindly advise the limitation/reference for corrosion finding at the lip skin as well as your acceptance to proceed with the corrosion removal.

Purchase Order Number (if required)

ਵੇਰਤ ਸ਼ਤਰ ਕਰਨ ਵੇਰਤੂ <u>ਮੰਜਲੇ ਮੰਜਲੇ ਸ਼ਹਰ ਕਰਨ ਸ਼ਰਹੂ ਮਰਪੂ ਸਮੇਂ ਹਰ ਕਰਨ ਕਰਨੇ ਕਰਨੇ</u> ਕਰਨ ਹਵਾਵਾ ਕਰਨ ਕਰਨ ਕਰਨ ਕਰਨ ਕਿਸ਼ਨ ਵਿੱਚ ਵਿਸ਼ਾਂ ਕਾਵਦੂ ਕਰਨ ਵਰਤ, ਸ਼ਜ਼ਮੇਂ ਮੰਜਲੇ ਸ਼ਹਿਤ ਕਰਨ ਸ਼ਹਿਤੀ ਸ਼ਹਿਤ ਕਰਨ ਕਰਨ ਕਰਨੇ ਕਰਨੇ ਕਰਨੇ ਕਰਨੇ ਸ਼ਜ਼ਮ ਵਿੱਚ ਕਰਨ ਕਰਨੇ ਕਰਨੇ

Best Regards,

Ehab B, Al-Zoubi Design Engineer - Structures Design, Engineering and Innovation

Etihad Airways Engineering Next to Abu Dhabi International Airport P.O. Box: 46450, Abu Dhabi, United Arab Emirates

Tel: + 971 2 575 7555 Dir: + 971 2 505 8426 Mobile: +971 505665192

24/7 Duty Engineer: +971 50 612 8511

etihad.com

The National Airline of the United Arab Emirates

Towards zero emissions, every little helps! Think before you print this email.

Additional phone contact(s) for AOG submission: <Not Entered>

RESPONSE AND/OR REQUIRED ACTION:

RESPONSE:

Boeing is unable to evaluate your request. Please provide the average depth of the reported surface pitting on the lipskin.

REQUIRED ACTION:

Please disregard our previous request for depth of teh surface pitting, we believe we can provide a response with the information provided.

If attachments are referred to, and are not present, please access them by logging into MyBoeingFleet Service Requests application or contact your Boeing Field Service Representative.

https://myboeingfleet.boeing.com/servicerequests/index.html?entityId=3-

1LXOIZN&entityType=CommunicationMessage

Suppliers, please access attachments by logging into Boeing Partner Network Supplier Service Requests application.

Ronald Hikida, Sr. Liaison Engineer Propulsion - 777 Nacelle Andre Moore, Manager Propulsion Service Engineering Boeing Commercial Airplanes

Boeing Customer Support [csd.boecom@boeing.com] **Sent:** Tuesday, April 05, 2016 7:47 PM

FROM: THE BOEING COMPANY

TO: ADAT (GMO)

[MESSAGE NUMBER:GMO-ETI-16-0034-04B] Boeing Response

MESSAGE DATE: 05 Apr 2016 0847 US PACIFIC TIME / 05 Apr 2016 1547 GMT

The following message is distributed to the following people at ADAT: Ehab B Al Zuibi, Structures Interiors Group

The following message is distributed to the following people at Etihad Airways: 777 Fleet Management, Duty Engineer Group Service Request ID: 3-3502286422

Field Service Base: BFSAUH

Service Category: Airplane Model: 777 Series/Product: 777-

200 ATA: 5410-00

SUBJECT: TR 21371H - A6-LRE - LH ENG - INLET COWL LIP SKIN - CORROSION

AIRPLANE (VARIABLE/SERIAL): WD015/36304 REGISTRY: A6-LRE Flight Hours:

32267 Flight Cycles: 3657

INQUIRY TYPE: Component Repair FAA Form 8100-9 Requested: No Repair

Design Record Requested: No

Part Number: 341W1400-9 Part Serial Number: 001114

P/N CAGE Code:

REFERENCES:

/A/ GMO-ETI-16-0034-01C

DESCRIPTION:

During the current maintenance visit; surface/pitting corrosion was found on LH ENG Inlet Cowl Lip Skin Upper Half, the corrosion is extending all over the lip segment, refer to the attached file for more details.

After reviewing the related SRM reference 54-13-01-1A-1; we couldn't find any limitation/repair for the corrosion finding.

ETI is intending to remove the corrosion using the sanding method, followed by dye penetrant inspection.

RESPONSE:

Boeing has reviewed the Ref /A/ message and provides the following response: 1. Remove the damage per the Ref /B/ SRM. Maintain a surface finish of 125 microinches Ra or smoother.

- 2. Accomplish an HFEC surface inspection per 777 NDT Manual Part 6, 51-00-01 or Fluorescent Penetrant Inspection per SOPM 20-20-02 Type-1, Method-C, Level-3 or higher on the reworked areas to ensure all damage has been removed and there are no cracks.
- 3. The allowable damage limits for the inlet cowl lip skin provided in Ref /C/apply. See Figure 103, Details A, B, C, and D.
- 4. Provided the allowable damage limits in Ref /C/ are not exceeded, apply

Alodine 1200 per SOPM 20-43-03 to the blended areas.

If attachments are referred to, and are not present, please access them by logging into MyBoeingFleet Service Requests application or contact your Boeing Field Service Representative.

https://myboeingfleet.boeing.com/servicerequests/index.html?entityId=3-1LXOJ3A&entityType=CommunicationMessage

Suppliers, please access attachments by logging into Boeing Partner Network Supplier Service Requests application.

Ronald Hikida, Sr. Liaison Engineer Propulsion - 777 Nacelle Andre Moore, Manager Propulsion Service Engineering Boeing Commercial Airplanes

donotreply@boeing.com

Sent: Tuesday, April 05, 2016 9:43 PM

Cc: Ehab Alzu'bi; Maintenance Control EYE Duty Engineer; ENG-STR-INT; B777 FLEET MGT

FROM: Godege D Sampath, gsampath@adat.ae

05-Apr-2016 18:43:59 (GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon,

London / 05-Apr-2016 17:43:59 (GMT)

[MESSAGE NUMBER:GMO-ETI-16-0034-05C]

This message has been sent to you by The Boeing Company on behalf of Godege D Sampath. It is for informational purposes only.

Please do not reply to this mail. Questions regarding the content of this message may be

directed to Godege D Sampath at the address above.

A response by 05-Apr-2016 14:00:00 (US Pacific Time) / 05-Apr-2016 22:00:00 (GMT) has been requested from The Boeing Company.

This message is sent to the following:

Ehab B Al Zuibi, ADAT

Duty Engineer Group, Etihad Airways

Structures Interiors Group, ADAT

777 Fleet Management, Etihad Airways

SERVICE REQUEST ID: 3-3502286422

PRIORITY: AOG
ACCOUNT: ADAT (GMO)
FIELD BASE: BFSAUH-Abu Dhabi-United Arab Emirates
PRODUCT TYPE: Airplane

777

PRODUCT LINE:

777-200

PRODUCT: ATA:

5410-00

INQUIRY TYPE: Component Repair FAA Form 8100-9 Requested No Repair

Design Record Requested No

PART NUMBER: 341W1400-9 PART SERIAL NUMBER: 001114

AIRPLANE(S):

Registry Number Variable Number Serial Number Hours/Cycles

A6-LRE

WD015

36304

32,267/3,657

SUBJECT:

TR 21371H - A6-LRE - LH ENG - INLET COWL LIP SKIN - CORROSION

Message Text:

Dear Boeing Team,

Thanks for your response with regards to MESSAGE NUMBER: GMO-ETI-16-0034-04B.

However, the quoted references are not attached.

Please provide us with Ref /B/ & /C/ mentioned in the message.

Thanks & Best Regards,

Sam Abeyawardena

Duty Engineer [Airworthiness]

Design, Engineering & Innovation

Etihad Airways Engineering

Adjacent to Abu Dhabi International Airport,

P.O. Box: 46450, Abu Dhabi, United Arab Emirates

Tel: +971 2 575 7555 Dir: +971 2 511 1254 Mob: +971(0) 506 128 511

Email: GABEYAWARDENA@etihad.ae Email: dutyengineer@etihad.ae

etihad.com

The National Airline of the United Arab Emirates

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emall.

If attachments are referred to, and not present, please contact your local Boeing Field Service Representative. If your local Field Service Representative is unavailable, you may contact the appropriate Airline Support Manager or call the BCA Operations Center at (206) 544-7500.

BOEING PROPRIETARY

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Boeing Customer Support [csd.boecom@boeing.com]
Sent: Tuesday, April 05, 2016 10:12 PM

FROM: THE BOEING COMPANY

TO: ADAT (GMO)

[MESSAGE NUMBER:GMO-ETI-16-0034-06B] Boeing Response

MESSAGE DATE: 05 Apr 2016 1111 US PACIFIC TIME / 05 Apr 2016 1811 GMT

The following message is distributed to the following people at ADAT: Godege D Sampath, Structures Interiors Group, Ehab B Al Zuibi

The following message is distributed to the following people at Etihad Airways: 777 Fleet Management, Duty Engineer Group Service Request ID: 3-3502286422

Field Service Base: BFSAUH

Service Category: Airplane Model: 777 Series/Product: 777-

200 ATA: 5410-00

SUBJECT: TR 21371H - A6-LRE - LH ENG - INLET COWL LIP SKIN - CORROSION

AIRPLANE (VARIABLE/SERIAL): WD015/36304 REGISTRY: A6-LRE Flight Hours:

32267 Flight Cycles: 3657

INQUIRY TYPE: Component Repair FAA Form 8100-9 Requested: No Repair

Design Record Requested: No

Part Number: 341W1400-9 Part Serial Number: 001114

P/N CAGE Code:

REFERENCES:

/A/ GMO-ETI-16-0034-05C

DESCRIPTION:

Thanks for your response with regards to MESSAGE NUMBER: GMO-ETI-16-0034-04B. However, the quoted references are not attached. Please provide us with Ref /B/ & /C/ mentioned in the message.

RESPONSE:

Boeing apologizes for the oversight. These are the applicable Ref /B/ 777-200 SRM 51-10-02 and Ref /C/ 777-200 SRM 54-13-01 Allowable Damage 1 references.

If attachments are referred to, and are not present, please access them by logging into MyBoeingFleet Service Requests application or contact your Boeing Field Service Representative.

https://myboeingfleet.boeing.com/servicerequests/index.html?entityId=3-1LXV99T&entityType=CommunicationMessage

Suppliers, please access attachments by logging into Boeing Partner Network Supplier Service Requests application.

Ronald Hikida, Sr. Liaison Engineer Propulsion - 777 Nacelle

Andre Moore, Manager Propulsion Service Engineering Boeing Commercial Airplanes

COMMERCIAL TRACE

BILL OF SALE

KNOW ALL PERSONS BY THESE PRESENTS;

THAT THE BOEING COMPANY (SELLER), a Delaware corporation whose address is Box 3707, Seattle, Washington, is the owner of the full legal and beneficial title to that certain BOEING MODEL 777-237LR AIRCRAFT (generic airframe model 777-200) manufactured by THE BOEING COMPANY bearing REGISTRATION IDENTIFICATION VT-ALC and MANUFACTURER'S SERIAL NUMBER 36302, together with the two (2) GE90-110B1 series engines (generic engine model GE90-110B1) installed thereon, manufactured by General Electric, bearing MANUFACTURER'S SERIAL NUMBERS 906302 and 906303, respectively, together with all appliances, parts, instruments, appurtenances, accessories, furnishings, or other equipment or property installed on or attached to said aircraft and engines, other than equipment furnished by AIR INDIA LIMITED(BFE).

THAT SELLER hereby warrants to BUYER, its successors and assigns, that there is hereby conveyed to BUYER on the date hereof, good title to the aforesaid aircraft, engines, appliances, parts, instruments, appurtenances, accessories, furnishings and/or other equipment or property (other than BFE), free and clear of all liens, encumbrances and rights of others, and that it will warrant and defend such title forever against all claims and demands whatsoever.

THIS Bill of Sale is delivered by SELLER to BUYER in Everett, Washington, and governed by the law of the State of Washington.

IN WITNESS WHEREOF, SELLER has caused this instrument to be executed by its duly authorized Attorney-In-Fact this 27 day of JULY, 2007.

THE BOEING COMPANY

Ву

Title Attorney-In-Fact

ACKNOWLEDGMENT

STATE OF WASHINGTON

)ss.

COUNTY OF KING

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal.

KAREN MOE

Notary Public in and for the State of Washington, residing at Kirkland, County of King.

Commission expiration date: 08/14/10.

Notary Public State of Washington KAREN MOE My Appointment Expires Aug 14, 2010

BILL OF SALE

Know all men by these presents that National Aviation Company of India Limited (the "Seller"), having an office at Old Airport, Santacruz (E), Mumbai 400 029, India, is the owner of the title to the following airframe (the "Airframe"), the engines as specified (the "Engines"), and all appliances, components, parts, instruments, appurtenances, accessories, furnishings, modules and other equipment of any nature incorporated therein, installed thereon or attached thereto on the date hereof and all records, documents and technical manuals related thereto (the "Parts").

MANUFACTURER OF AIRFRAME:

MANUFACTURER OF ENGINES:

THE BOEING COMPANY

GENERAL ELECTRIC COMPANY

MODEL:

777-200LR

MODEL:

GE-90-110B1

MANUFACTURER'S SERIAL

MANUFACTURER'S SERIAL

NO: 36302

NOs: 906302 and 906303

REGISTRATION MARK: VT-ALC

The Airframe, Engines and Parts are hereafter together referred to as the "Equipment".

That for and in consideration of the sum of \$1.00 and other good and valuable consideration, receipt of which is hereby acknowledged, the Seller does this 6 day of November 2007 hereby grant, bargain, sell, convey, transfer, set over and deliver all of its rights, title and interest to and in the Equipment to the following entity and to its successors and permitted assigns for its and their use forever:

Golden State Aircraft LLC (the "Buyer")

Rodney Square North

1100 North Market Street

Wilmington, Delaware

19890-0001

The Seller hereby warrants to the Buyer, its successors and permitted assigns that it has on the date hereof good and lawful right to sell, deliver and transfer title to the Equipment to the Buyer and that there is hereby conveyed to the Buyer on the date hereof good, legal and valid title to the Equipment, free and clear of all claims, charges, Liens (other than Permitted Liens) and rights of others and that the Seller will warrant and defend such title forever against all claims and demands whatsoever.

This Bill of Sale is executed and delivered by Seller to Buyer pursuant to the Sale Agreement dated even date herewith between Seller and Buyer (the "Sale Agreement").

Terms used herein bear the same respective meanings as are ascribed thereto (whether directly or by incorporation therein) in the Sale Agreement.

This Bill of Sale shall in all respects be governed by, and construed in accordance with, the internal laws of the State of New York, United States of America without reference to principles of conflicts of law other than Section 5-1401 and Section 5-1402 of the New York General Obligations Law.

IN WITNESS WHEREOF, the undersigned have caused this instrument to be executed by their duly authorised representatives this 66 day of North 2007 at 3.30 fm (New York time), at which time the Airframe and the Engine bearing MSN 906302 was located at John F. Kennedy Airport, New York, New York and the Engine bearing MSN 906303 was located in international airspace.

Accepted:

fm

GOLDEN STATE AIRCRAFT LLC

by Golden State Statutory Trust, its Manager

by Wilmington Trust Company, not in its individual capacity, but solely as trustee

Name:

J. Christopher Murphy Financial Services Officer

Title:

NATIONAL AVIATION COMPANY OF INDIA LIMITED

Name: H.J. MEHTAJI

Title: Regional hinance & Accounts Manager-USA & CANADA

AIRCRAFT BILL OF SALE

Date: 5 Sebruary 2014

KNOW ALL MEN BY THESE PRESENTS:

THAT GOLDEN STATE AIRCRAFT LLC, a company incorporated and existing under the laws of Delaware (hereinafter referred to as the "Owner") is the legal owner of (a) that one (1) Boeing 777-200LR aircraft bearing manufacturer's serial number 36302 (the "Aircraft"), (b) all appliances, components, parts, instruments, accessories, furnishings, modules, navigational and communications equipment and other equipment and property of whatever nature (other than complete Engines, as hereinafter defined) incorporated in, installed on or attached to the Aircraft on the date hereof (collectively, the "Parts"), (c) two (2) General Electric GE90-110B1L1 engines bearing manufacturer's serial numbers 906275 and 906376 and any and all Parts incorporated in, installed on or attached to such engines on the date hereof (the "Engines") and (d) all logbooks, Aircraft records, books, handbooks, drawings, manuals, flight records, historical, operational and maintenance data for the Aircraft and any other document owned by the Seller in connection with the Aircraft (the "Aircraft Documentation").

THAT for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Owner does hereby grant, convey, transfer, bargain and sell, deliver and set over in favour of Etihad Airways P.J.S.C. all of the Owner's right, title and interest in and to the Aircraft, the Engines, the Aircraft Documentation and the Parts and each of its successors and assigns forever.

THAT this Bill of Sale is delivered pursuant to the Sale and Purchase Agreement dated 5 December 2013 between Air India Limited and Etihad Airways P.J.S.C. and capitalized terms used herein and not otherwise expressly defined shall have the meanings given such terms (or assigned to them by reference) therein.

THAT the Aircraft, Engines, the Aircraft Documentation and Parts are sold in an "as-is, where-is" condition and without recourse or warranty being given by the Seller (and any and all implied warranties or terms are hereby expressly excluded).

THAT this Bill of Sale shall be governed by and construed in accordance with the laws of England and is executed as a deed and delivered by a duly authorised representative of the Owner on this day of the Country, 2014, at Abu Dhabi, United Arab Emirates, at which time the Aircraft is located at Abu Dhabi, United Arab Emirates.

CERTIFIED COPY OF THE ORIGINAL DOCUMENT CLIFFORD CHANCE L.L.P.

Name: NICHOLAS OILOA

Position: SENIOR ASSOCIATE

Date: 08/02/2014

Contact Tel.: +971566849869

Executed as a deed by

GOLDEN STATE AIRCRAFT LLC

by Golden State Statutory Trust, as Manager
by Wilmington Trust Company, not in its individual capacity
but solely as Trustee

Signed by
a duly authorised
representative for and
on behalf of
Golden State Aircraft LLC

Steve Barone Assistant Vice President

By its countersignature below, Air India Limited hereby grants, conveys, transfers, bargains and sells, delivers and sets over in favour of Etihad Airways P.J.S.C. all of Air India's right, title and interest in and to the Aircraft, the Engines, the Aircraft Documentation and the Parts and each of its successors and assigns forever and warrants to the Buyer, and its successors and assigns and hereby warrants to the Buyer, and its successors and assigns, that there is hereby conveyed to the Buyer with full title guarantee good and marketable title to the Aircraft, the Engines, the Aircraft Documentation and the Parts and all of the Seller's and all of Air India's right, title and interest in and to the Aircraft, the Engines, the Aircraft Documentation and the Parts free and clear of all Security Interests.

Executed as a deed by

AIR INDIA LIMITED

Signed by
a duly authorised
representative for and
on behalf of
Air India Limited
)

Executed as a deed by

GOLDEN STATE AIRCRAFT LLC

by Golden State Statutory Trust, as Manager by Wilmington Trust Company, not in its individual capacity but solely as Trustee

Signed by)
a duly authorised)
representative for and)
on behalf of)
Golden State Aircraft LLC)

By its countersignature below, Air India Limited hereby grants, conveys, transfers, bargains and sells, delivers and sets over in favour of Etihad Airways P.J.S.C. all of Air India's right, title and interest in and to the Aircraft, the Engines, the Aircraft Documentation and the Parts and each of its successors and assigns forever and warrants to the Buyer, and its successors and assigns and hereby warrants to the Buyer, and its successors and assigns, that there is hereby conveyed to the Buyer with full title guarantee good and marketable title to the Aircraft, the Engines, the Aircraft Documentation and the Parts and all of the Seller's and all of Air India's right, title and interest in and to the Aircraft, the Engines, the Aircraft Documentation and the Parts free and clear of all Security Interests.

Executed as a deed by

Signed by
a duly authorised
representative for and on behalf of
Air India Limited

AIR INDIA LIMITED

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BILL OF SALE

By this Bill of Sale, ETIHAD AIRWAYS P.J.S.C., (the Seller) for good and valuable consideration (the receipt of which is hereby acknowledged) confirms that pursuant to an aircraft sale and purchase agreement September 2014 (the Aircraft Sale and Purchase Agreement) made between the Seller and UNION 23 LEASING LIMITED (the Buyer), the Seller did sell, grant, transfer and deliver to the September 2014 at 07:05 a.m./p.m. (Abu Dhabi time) all its right, Buyer at Abu Dhabi on title and interest in and to:

- 1. one Boeing 777-200LR aircraft bearing manufacturer's serial number 36302;
- 1. one GE90-115B engine and one GE90-110B engine bearing manufacturer's serial numbers 906275 and 906376;
- 2. all Parts; and
- 3. the Manuals and Technical Records,

(hereinafter referred to as the Aircraft),

and hereby conveys, transfers, sells and delivers with full title guarantee to the Buyer such title to the Aircraft and all its right, title and interest in and to the Aircraft free and clear of any Security Interests, other than Permitted Security Interests and the Seller hereby agrees to warrant and defend such title forever against all claims and demands whatsoever.

In this Bill of Sale, words and expressions defined in the Aircraft Sale and Purchase Agreement (whether defined therein or incorporated by reference) will bear the same respective meanings unless otherwise defined herein.

This Bill of Sale is governed and construed in accordance with English law.

IN WITNESS whereof, the Seller has caused this Bill of Sale to be duly executed and delivered as a deed

this \$\day\$ of September 2014.

SIGNED, SEALED and DELIVERED

as a deed by

JAMES RIGNEY

as lawful attorney for and in the name of

ETIHAD AIRWAYS P.J.S.C.

in the presence of:

Witness' signature:

AJAI RAMAKRISHNAN Witness' name:

Witness' Address:

ETIHAD AIRWAYS P.J.S.C.





BILL OF SALE

By this Bill of Sale, UNION 23 LEASING LIMITED (the Seller) hereby confirms that the Seller grants. transfers and delivers to ETIHAD AIRWAYS P.J.S.C. (the Buyer) at Abu Dhabi on 1 October 2018 at 4:13 a.m./p.m. (Abu Dhabi time) all its right, title and interest in and to:

- 1. one Boeing 777-200LR aircraft bearing manufacturer's serial number 36302;
- 2. one GE90 115B engine and one GE90 110B engine bearing manufacturer's serial numbers 906275 and 906376;
- 3. all Parts; and
- 4. the Manuals and Technical Records,

(hereinafter referred to as the Aircraft), as originally granted, transferred and delivered to the Seller pursuant to an aircraft sale and purchase agreement dated 23 September 2014 (the Aircraft Sale and Purchase Agreement),

and hereby conveys, transfers, sells and delivers with full title guarantee to the Buyer such title to the Aircraft and all its right, title and interest in and to the Aircraft free and clear of all liens, claims, charges encumbrances and rights of others and the Seller hereby agrees to warrant and defend such title forever against all claims and demands whatsoever.

In this Bill of Sale, words and expressions defined in the Aircraft Sale and Purchase Agreement (whether defined therein or incorporated by reference) will bear the same respective meanings unless otherwise defined herein.

This Bill of Sale is governed and construed in accordance with English law.

IN WITNESS whereof, the Seller has caused this Bill of Sale to be duly executed and delivered as a deed this 1st day of October 2018

SIGNED, SEALED and DELIVERED

as a deed by

as authorised signatory for and in the name of

UNION 23 LEASING LIMITED

in the presence of: Witness' signature:

Witness' name:

Witness' Address:

Michael Byrne

Unit C1407 Level 14, Burj Daman

PO Box 506734, Dubai **United Arab Emirates**

Bill of Sale - MSN 36302 Airframe

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Etihad Airways PJSC ("Seller"), owner of the full legal and beneficial title to the aircraft airframe, equipment and documents described below (hereinafter referred to as the "Airframe"):

- one (1) Boeing 777-200LR airframe bearing manufacturer's serial number 36302;
- all equipment, accessories and parts belonging to, installed in or appurtenant to such aircraft airframe; and
- 3 the Aircraft Documents (as defined below),

does hereby sell, grant, transfer and deliver all its right, title and interest in and to the Airframe to SFTS EY-777 Airframes, LP ("Purchaser"), with full title guarantee to have and to hold the Airframe forever. Seller hereby warrants to Purchaser, and its successors and assigns, that it is the legal and beneficial owner of the Airframe, that there is hereby conveyed to Purchaser full legal and beneficial good and marketable title to the Airframe free and clear of any Security Interests (as defined below), and that it will forever defend such title against any and all such non-permitted claims and demands whatsoever.

The terms "Aircraft Documents" and "Security Interests" shall have the following meanings in this Bill of Sale as such terms relate to the Airframe:

Aircraft Documents means all records, logs, manuals, technical data, tags and other documents in respect of the specification, maintenance, modification and repair of the Airframe whether printed on paper or stored on any disk or electronic medium, and in the case of the latter includes any software not generally available to Purchaser and necessary to store and retrieve such data; and

Security Interest means any mortgage, charge (whether fixed or floating), pledge, lien, hypothecation, assignment, trust arrangement, or security interest of any kind or other agreement or arrangement having the effect of conferring security (including title transfer and/or retention arrangements having a similar effect).

This Bill of Sale is governed by, and shall be construed in accordance with, the laws of England.

IN WITNESS WHERE	EOF,	Seller	has cause	ed this Bill	of Sal	e to be	e dul	y execute	d as	a deed a	ınd
delivered this 16	day	of _	January	/	2019,	while	the	Airframe	was	located	at
Kemble, UK	, at	10:	06 AM	local time							



EXECUTED as a **DEED** and **DELIVERED** for and on behalf of **Etihad Airways PJSC** by

ANDREW SISHEL

being persons who, in accordance with the laws of its jurisdiction of incorporation, are duly authorized to execute this deed on its behalf

in the presence of/

Witness Signature

Witness Name: DIVER WHYSE
Witness Occupation: HEAD FLEET PROJECTS
Witness Address: ETIHAD AIRWAYS, NEW AIRPORT RD.

Foreign Seller

KHALIFA CITY, ABO DHABI, VAE.



Bill of Sale

By this Bill of Sale, SFTS EY-777 Airframes, LP (the "Seller") does hereby sell, grant and transfer to A J Walter Aviation Limited (the "Buyer") free and clear of any and all Security created by the Seller, in accordance with the terms of an Airframe Sale Agreement dated 7 September 2018 (the "Sale Agreement") and made between the Seller and the Buyer, all its rights, title and interest in and to:

- 1. one (1) Boeing 777-200LR airframe with manufacturer's serial number 36302;
- all equipment, accessories and Parts belonging to, installed in or appurtenant to such airframe
 to the extent title thereto is vested in the Seller on the Delivery Date; and
- 3. the Technical Records,

(the "Airframe") whilst the Airframe is located at Kemble, United Kingdom at 2.07 pm (law hime)

The Airframe is sold "as is where is" to the Buyer for good and valuable consideration, receipt of which is hereby acknowledged by the Seller.

The Seller hereby warrants to the Buyer, its successors and assigns that the Seller has conveyed to the Buyer, subject to and in accordance with the provisions of the Sale Agreement, good marketable title to the Airframe free and clear of all Security and the Seller agrees with the Buyer and its successors and assigns that the Seller will warrant and defend such title forever against all claims and demands whatsoever.

Capitalised terms used but not defined herein shall have the meanings given to them in the Sale Agreement.

This Bill of Sale and any non-contractual obligations arising out of or in connection with it are governed by English law.

Dated the 16th day of January 2019

IN WITNESS WHEREOF SFTS EY-777 Airframes, LP by its duly authorised representative, executed this Bill of Sale.

Timothy D. A. O'Hara
Vice President

For and on behalf of

SFTS EY-777 Airframes, LP

(by Shooting for the Stars VII, LLC, its general partner)