

SERVICEABLE PART TAG

Date Printed:
08-Nov-2017



I004DQ10

Page:
Page 1 of 1

TAM SA (TAM LINHAS AEREAS S.A)

OTHER (Other)

Financial Class:

ROTABLE (ROTABLE)

Manufacturer:
F6198

Manufacturer Part No.:
V53132010000

Serial No.:
RADV0042

Qty:
1

Lot No.:

BIN:

Batch No.:

ICN:

Shelf Life Expiry:

Part Name:

RADOME

AFH:

Cycles:

TSN: 4,596.9 TSO: 4,596.9 TSN: 489 TSO: 489

Purchase Order:

Last Condition:
REP (Repaired)

Warranty

Warranty Type

Vendor

Expiry Date

PurchaseA350WtyStd48mth

ASSEMBLY

FAPE3

Comments/Remarks:

THE RADOME WAS REPAIRED ACCORDING TO SPECIAL REPAIR PROCEDURE RADOME-A-53-10-11-05001-664B-C AND PAINTING

SPECIAL REPAIR PROCEDURE RADOME-A-53-10-11-09001-664B-C REV. 003 JUN.26/17

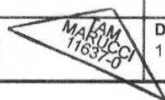
Inspected By

Name (Please Print):
CEL SO MARUCCI

Notes:

Signature:

CEL SO



Date:

11/8/2017 10:13:19AM

Incoming Inspection Check List

Hazmat / Dangerous Goods Material (IATA)

YES N/A

☐ ☐

M.S.D.S.

Control Temperature

☐ ☐

Tool

Shelf Life

☐ ☐

Work Shop

C.O.F.C Manufacturer

☐ ☐

Good Physical Condition

Form 8130-3 / EASA FORM1 y/o Equiv.

☐ ☐

Documentation Complete and Correct

Certificate of Analysis

☐ ☐

Drop Shipment (Paperwork Only)

YES N/A

☐ ☐

QC Acceptance

YES N/A

☐ ☐

Form OP-027 REV.00

TALLY SHEET



T00CSC6L

Check Name:

Repair RADOME (PN: V53132010000, SN: RADV0042)

Work Order No:

RO - 96584859

Station:

QSC/QSCMY32

Start Date:

30-Oct-2017 16:51

Aircraft:

RADOME (PN: V53132010000, SN: RADV0042)

Flight Hours:**Flight Cycles:**

TSN: 4596,89

TSO: 4596,89

CSN: 489

CSO: 489

Task List

Line	Zone	Task Name	Barcode	Checked
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1		BIRD STRIKE (NLG AREA)	T00CSC6K	
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Signatures:

Skill	Hours	Performed By (Print)	Signature	Date
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14 CFR 43.9 Return to Service Certifies that, unless otherwise specified, the work identified and described in this form, has been accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service

Date Printed: 08-Nov-2017

Form TS-001 Rev 01

Page 1 of 1



COM N° 0910-02 / ANAC

Workshop Report

Oficina (Shop)

QSCMY32

Sol. de Serviço (Track N°)

RO - 96584859

OS (Work Order)

T00CSC6L

Data (Date)

07-11-2017

P/N V53132010000	Nome (Name) RADOME	Qtd. (Qty) 1	TSN 4596,89	CSN 489
S/N RADV0042			TSO 4596,89	CSO 489




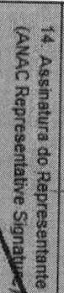
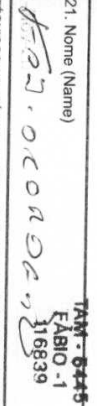
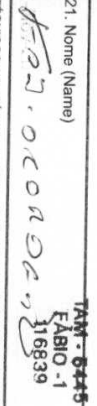
Motivo de Remoção (Removal Reason) IMSCHD - Unscheduled Failure	Serviço Solicitado (Asked Work) Remoção Confirmada (Confirmed Removed) <input checked="" type="checkbox"/> Sim (Yes) <input type="checkbox"/> Não (No)	Condição de Recebimento (Receiving Condition)
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Serviço Executado (Accomplished Work) THE RADOME WAS REPAIRED ACCORDING TO SPECIAL REPAIR PROCEDURE RADOME-A-53-10-11-05001-664B-C AND PAINTING SPECIAL REPAIR PROCEDURE RADOME-A-53-10-11-09001-664B-C REV. 003 JUN.26/17	Tipo de Serviço Executado (Work Accomplished Type) Repaired		
	<table><tr><td>P/N V53132010000</td><td>S/N RADV0042</td></tr></table>	P/N V53132010000	S/N RADV0042
P/N V53132010000	S/N RADV0042		

Mandatórias e Boletins Aplicados (AD's, SB's, Mod's Embodied)	Certificado de Aeronavegabilidade (Release Certificate) RO - 96584859
	Etiqueta de Material (Material Tag) T00CSC6L

Materials Usados (Parts Used) <table><tr><td>P/N</td><td>Qtde. (QTY)</td><td>UM (U/I)</td></tr></table>	P/N	Qtde. (QTY)	UM (U/I)	Causa Primária da Falha (Failure Cause) BIRD STRIKE (NLG AREA)
P/N	Qtde. (QTY)	UM (U/I)		
	Nome (Name) TAM - 46846 LEANDRO 184815			

Aprovado por (Approved by) TAM - 6445 FABIO -1 116839	Data (Date) NOV 07, 2014
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1. País (Country) BRASIL		2. Título (Title) AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL (BRAZILIAN CIVIL AVIATION AUTHORITY) CERTIFICADO DE LIBERAÇÃO AUTORIZADA (AUTHORIZED RELEASE CERTIFICATE) ETIQUETA DE APROVAÇÃO DE AERONAVEGABILIDADE (AIRWORTHINESS APPROVAL TAG) Formulário (Form) F-100-01 (SEGVOO 003)		3. Certificado Nº (Certificate Nº / System Tracking Ref.) RO - 96584859	
4. Empresa (Nome e Endereço) (Organization - Name and Address) TAM Linhas Aéreas S/A São Carlos SP, Brazil Rodovia SP 318, km 249.5, CEP 13560-970			5. Ordem de Serviço / Contrato / Nota Fiscal (Work Order, Contract or Invoice) 		
6. Item (Item)	7. Descrição (Description)	8. Número da Peça (Part Number)	9. Quantidade (Quantity)	10. Número de Série / Lote (Serial / Batch Number)	11. Categoria / Trabalho (Status / Work)
1	RADOME	 V53132010000	1	 RADV0042	Repaired
12. Observações (Remarks) THE RADOME WAS REPAIRED ACCORDING TO SPECIAL REPAIR PROCEDURE RADOME-A-53-10-11-05001-664B-C AND PAINTING SPECIAL REPAIR PROCEDURE RADOME-A-53-10-11-09001-664B-C REV. 003 JUN.26/17 TAM certifies that work specified in Blocks 11 and 12 was carried out in accordance with EASA Part 145 and in respect to that work the product/article is considered ready for release to service under EASA Part 145 Approval Number EASA.145.0067. Partes com vida limitada devem ser acompanhadas de histórico de manutenção incluindo tempo total / ciclo total / tempo desde que novo. (Limited life parts must be accompanied by maintenance history including total time / total cycles / time since new)					
13. Certifica que o(s) item(ns) acima identificado(s) foi (foram) fabricado(s) em conformidade com RBAC 43.9. (Certifies that the article(s) identified above was (were) manufactured in conformity to RBAC 43.9) <input type="checkbox"/> dados de projeto aprovados e está(ão) em condição segura de operação (approved design data and are in a condition for safe operation) <input type="checkbox"/> dados de projeto não aprovados especificados no bloco 12 (non-approved design data specified in block 12)					
14. Assinatura do Representante da ANAC - (ANAC Representative Signature)		15. Nº Autorização da ANAC - (Authorization No.)		19. Pessoa Autorizada (Authorized Signature)	
				 TAM - 8445 FABIO - 1 316839	
16. Nome (Name)		17. Data (Date)		20. Nº COM / ETA - (Certificate Number)	
				0910-02/ANAC	
		21. Nome (Name)		22. Data (Date)	
		 FABIO - 1 316839		07-Nov-2017	

* O INSTALADOR DEVE FAZER VERIFICAÇÃO CRUZADA DA APLICABILIDADE ATRAVÉS DOS DADOS TÉCNICOS APLICÁVEIS. (INSTALLER MUST CROSS CHECK ELIGIBILITY WITH APPLICABLE TECHNICAL DATA.)
 É IMPORTANTE COMPREENDER QUE A EXISTÊNCIA DESTES DOCUMENTOS POR SI SÓ NÃO CONSTITUI AUTOMATICAMENTE UMA AUTORIZAÇÃO PARA INSTALAR A PARTE/COMPONENTE/CONJUNTO. (IT IS IMPORTANT TO UNDERSTAND THAT THE EXISTENCE OF THIS DOCUMENT ALONE DOES NOT AUTOMATICALLY CONSTITUTE AUTHORITY TO INSTALL THE PART/COMPONENT/ASSEMBLY.)
 SE O TRABALHO DO USUÁRIO/INSTALADOR É REALIZADO DE ACORDO COM OS REGULAMENTOS NACIONAIS DE UMA AUTORIDADE DE AERONAVEGABILIDADE DIFERENTE DA AUTORIDADE DE AERONAVEGABILIDADE DO PAÍS ESPECIFICADO NO BLOCO 1, É ESSENCIAL QUE O BLOCO 1, É ESSENCIAL QUE O USUÁRIO/INSTALADOR ASSEGURE QUE A SUA AUTORIDADE DE AERONAVEGABILIDADE ACEITA ACCEPTS PARTS/COMPONENTS/ASSEMBLIES FROM THE AIRWORTHINESS AUTHORITY OF THE COUNTRY SPECIFIED ESPECIFICADO NO BLOCO 1. (WHERE THE USER/INSTALLER WORK IS PERFORMED IN ACCORDANCE WITH THE NATIONAL REGULATIONS OF AN AIRWORTHINESS AUTHORITY DIFFERENT THAN THE AIRWORTHINESS AUTHORITY OF THE COUNTRY SPECIFIED IN BLOCK 1, IT IS ESSENTIAL THAT THE USER/INSTALLER ENSURES THAT HIS/HER AIRWORTHINESS AUTHORITY ACCEPTS PARTS/COMPONENTS/ASSEMBLIES FROM THE AIRWORTHINESS AUTHORITY OF THE COUNTRY SPECIFIED IN BLOCK 1.)
 AS DECLARAÇÕES NOS BLOCOS 13 E 18 NÃO CONSTITUEM UM CERTIFICADO DE INSTALAÇÃO EM TODOS OS CASOS. OS REGISTROS DE MANUTENÇÃO DA AERONAVE DEVEM CONTER UM CERTIFICADO DE INSTALAÇÃO EMITIDO DE ACORDO COM REGULAMENTOS NACIONAIS PELO USUÁRIO/INSTALADOR ANTES QUE A AERONAVE POSSA SER LIBERADA PARA VO. (STATEMENTS IN BLOCK 13 AND 18 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.)

AUTHORIZED RELEASE
FAA / United States

AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

RO - 96584859

1. Approving National Aviation Authority
Country:
4. Organization Name and Address

TAM Linhas Aéreas S/A
São Carlos SP, Brazil
Rodovia SP 318, km 249.5, CEP 13560-970
TTPY-759F

3. Form Tracking Number:
5. Work Order / Contact / Invoice Number:

6. ITEM

7. DESCRIPTION

8. PART NUMBER

9. QUANTITY

10. SERIAL / BATCH NUMBER

11. STATUS / WORK

1

RADOME



V53132010000

1



RADV0042

Repaired

12. REMARKS
THE RADOME WAS REPAIRED ACCORDING TO SPECIAL REPAIR PROCEDURE RADOME-A-53-10-11-05001-664B-C AND PAINTING SPECIAL REPAIR PROCEDURE RADOME-A-53-10-11-09001-664B-C REV. 003 JUN 26/17

13a. Certifies the items identified above were manufactured in conformity to:
☐ Approval design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 12.

14a. ☒ 14 CFR 43.9 Return to Service
Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulation, part 43 and in respect to that work, the items are approved for return to service.

☐ Other regulation specified in Block 12

13b. Authorized Signature:

13c. Approval/Authorization No.:

14b. Authorized Signature:

IAM - 6445
FABIO - 1
116839

14c. Approval/Certificate No.:

13d. Name (Typed or printed):

13e. Date (dd/mm/yyyy):

14d. Name (Typed or printed):

FABIO CORDEIRO

116839

TTPY-759F

07-Nov-2017

USER / INSTALLER RESPONSABILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country 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.

Special repair procedure

DMC: RADOME-A-53-10-11-09001-664B-C (2017-06-26)

1 RADOME – Special repair procedure (Application of Paint)

Job description

To apply the paint after a repair of outer skin.

Preliminary requirements

Support equipment

Support equipment

Nomenclature	Identification no.	Qty
Spray gun	Tool: No specific	1
Stove	Tool: No specific	1
Shaker	Tool: No specific	1
Thickness Gauge PaintBorer	Tool: No specific	1
Air blow gun	Tool: No specific	1

Consumables, materials and expendables

Consumables, materials and expendables

Nomenclature	Identification no.	Qty
Isopropyl alcohol	Cons.: No specific	AR
Diestone DLS	Cons.: No specific	AR
Reactive primer paint (P99)	Cons.: 7641/3600	AR
Surfacer paint (5014)	Cons.: 5425/0000 CELOMER	AR
Anti-static paint type II	Cons.: 5420/2620 CELOMER	AR
Anti-static paint kit type II	Cons.: 0986/2620/008 CELOMER	AR
Anti-erosion paint (Celoflex)	Cons.: 5478/0000 CELOMER	AR
Adhesive tape	Cons.: No specific	AR
Abrasive paper (P400 or P600)	Cons.: P400 or P600 (ISO/FEP Standard)	AR
Abrasive paper (320 or 400)	Cons.: 320 or 400 (CAMI Standard)	AR
Presaturated Wipe	Cons.: SOCOSAT PPA60	AR
De-mineralized water	Cons.: No specific	AR
Dry lint free cloth	Cons.: No specific	AR
White soft cloth	Cons.: No specific	AR
White-cotton lint-free gloves	Cons.: No specific	AR
Metallic sticker	Cons.: No specific	AR

Safety conditions

WARNING

USE SOLVENTS/CLEANING AGENTS, SEALANTS AND OTHER SPECIAL MATERIALS ONLY WITH A GOOD FLOW OF AIR THROUGH THE WORK AREA. THESE MATERIALS ARE POISONOUS AND FLAMMABLE AND SKIN IRRITANTS. OBEY THE MANUFACTURERS INSTRUCTIONS. PUT ON PROTECTIVE CLOTHING. DO NOT GET THEM IN YOUR MOUTH. DO NOT SMOKE. DO NOT BREATHE THE GAS. GET MEDICAL HELP IF YOUR SKIN OR EYES BECOME IRRITATED.

Procedure

1.1 Job Set-up

1.1.1 Preparation and stripping

- 1.1.1.1 Do a mechanical stripping of paint, (RADOME-A-53-10-11-02001-663B-C RADOME – Standard repair procedure (Mechanical Stripping of Paint)).
- 1.1.1.2 Clean the radome with a Dry lint free cloth and Isopropyl alcohol or Diestone DLS.
- 1.1.1.3 Do the water break test:
- 1.1.1.3.1 Make sure that the surface area is dry.
- 1.1.1.3.2 Soak a Dry lint free cloth with De-mineralized water.
- 1.1.1.3.3 Move the Dry lint free cloth across the repair area surface to apply a thin layer of water to the surface.

Note

As an alternative, you can spray a thin layer of De-mineralized water on the prepared surface when there is no risk to get water caught in open honeycomb or the structure.

- 1.1.1.3.4 Do a check of the wet surface to make sure that the surface is clean:
- Make sure that the water layer does not break into several parts on all the surface.
 - Make sure that the surface tension of water does not cause drops/beads of water.
- 1.1.1.3.5 Let the water on the surface for 30 seconds and make sure that the water layer does not break into several parts on the surface during this period.
- 1.1.1.3.6 If there are drops or beads in less than 30 seconds:
- Clean again.
 - Rub the surface lightly with Abrasive paper (P400 or P600) or Abrasive paper (320 or 400).
 - Clean the repair area with De-mineralized water.
 - Dry with a Dry lint free cloth.
 - Do again the water break test.

Note

Do not put water directly onto the laminated surface, use a clean lint-free cloth soaked with water.

- 1.1.1.3.7 At the end of this procedure, dry the surface with a clean Dry lint free cloth.

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Component Maintenance Publication

Note

After this test, use a White-cotton lint-free gloves when you touch the component.

- 1.1.1.4 ✓ Put 20 mm (0.79 in) wide Adhesive tape over the latches on fittings.

1.1.2 Preparation of the Paint (applicable to surfacer paint, anti-Static paint and anti-erosion paint)

- 1.1.2.1 ✓ Before opening, shake each tin for 15 minutes with a Shaker.

Note

The drying and pre-drying times at ambient temperature are given for 23 ±2 deg.C (73.4±3.6 deg.F) with relative humidity of 55 ±5%.

- 1.1.2.2 ✓ Make the mixture in the reservoir of the gun with the proportions given on the manufacturer's technical sheets.

- 1.1.2.3 ✓ Do a check of viscosity and adjust it with the thinner as shown in table.

MATERIAL	MIX RATIO	VISCOSITY
Surfacer paint (5014)	Base 5425/0000: 2 volumes Hardener 0709/9000: 1 volume Thinner 0491/9000: 1 to 1.5 volume (for viscosity)	from 17 s to 20 s. AFNOR4 at 20 °C (68 °F)
Anti-static paint type II or Anti-static paint kit type II	Base 5420/2620: 3 volumes Hardener 0709/9000: 1 volume Thinner 0491/9000: 1 volume (for viscosity)	from 19 s to 23 s. AFNOR4 at 23 °C (73.4 °F)
Anti-erosion paint (Celoflex)	Base 5478/0000: 1 volume Hardener 0778/9000: 1 volume Thinner 0470/9000: 0.5 to 1 volume (for viscosity)	from 14 s to 18 s. AFNOR4 at 20 °C (68 °F)

1.1.2.4 Preparation of Reactive primer paint (P99)

- 1.1.2.4.1 After opening, make sure that the two components are completely free of particles.

- 1.1.2.4.2 Do the mixture as follows:

MATERIAL	MIX RATIO
Reactive primer paint (P99)	Base 7641/3600: 1 volume Hardener 0841/9000: 1 volume Thinner 0434/9000: 0.1 to 0.3 volume (for viscosity)

- 1.1.2.4.3 Shake the mixture during 30 s.

Note

Use a clean mixer for mixture quantity more than one liter.

1.2 Procedure

WARNING

(Figure 2 Radome - Location of Control Points of Painting)

(Figure 3 Radome - Paint Borer Method)

1.2.1 Application of Reactive primer paint (P99)

Note

Each stud (one screw and one nut) is used to attach its related lightning arrestor strip to the Radome shell.

1.2.1.1 Carefully, remove the grease on the studs and metallic parts with Isopropyl alcohol.

1.2.1.2 Apply with a spray gun one layer of Reactive primer paint (P99) on the studs and all fasteners.

1.2.1.3 Let the paint dry at ambient temperature for a minimum of 1 h.

1.2.2 Application of Surfacer paint (5014)

1.2.2.1 Do the masking of the all studs and all metallic parts (latches handles) with Adhesive tape.

1.2.2.2 If paint borer not available, apply a Metallic sticker on the studs (with homogeneous distribution) for further paint thickness measurement with eddy current.

1.2.2.3 Do not discard the Metallic sticker after removal.

1.2.2.4 Surface filling

1.2.2.4.1 With a Spray gun, apply a layer of Surfacer paint (5014).

1.2.2.4.2 Rub fully the paint on the radome with a White soft cloth.

1.2.2.4.3 Apply a thin layer of Surfacer paint (5014).

1.2.2.4.4 Let dry.

1.2.2.4.5 Sand the paint until you see the original color.

1.2.2.4.6 Clean the radome with an Air blow gun then apply a White soft cloth.

1.2.2.5 Lightly rub all the surface of radome Abrasive paper (P400 or P600) or Abrasive paper (320 or 400).

1.2.2.6 With a Spray gun, apply laterally 2 layers (max. thickness 20 to 30 μm (787.4 to 1181.1 μin) of Surfacer paint (5014) at intervals of 2, 3 minutes.

1.2.2.7 Let the paint dry at ambient temperature for 15 minutes.

1.2.2.8 Let the radome at 60 deg.C (140 deg.F) maximum for 1 hour.

1.2.2.9 Let it cool at ambient temperature.

1.2.2.10 Remove the masking on all studs and all metallic parts (except locking handles)

1.2.2.11 Do a check of the thickness 20 to 30 μm (787.4 to 1181.1 μin) applied.

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Special repair procedure

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1.2.3

CAUTION

MAKE SURE THAT YOU APPLY THE ANTI-STATIC PAINT BEFORE A MAXIMUM TIME OF 16 HOURS.

Application of Anti-static paint type II or Anti-static paint kit type II

Apply with a Spray gun a first layer and a second layer (30 to 50 μm (1181.1 to 1968.5 μin)) of Anti-static paint type II or Anti-static paint kit type II on all external surfaces and edge of shell and the edge of housing of latches.

Let the paint dry at ambient temperature for 30 min.

Put the radome at 60 °C (140 °F) maximum for 3 h in the Stove.

Let it cool at ambient temperature.

Do a check of the electrical surface resistance (Refer to RADOME-A-53-10-11-01001-366B-C RADOME – Resistance Check (with antistatic paint tester) or RADOME-A-53-10-11-02001-366B-C RADOME – Resistance Check (with Megohmmeter)).

Do a check of the electrical continuity (Refer to RADOME-A-53-10-11-01001-365B-C RADOME – Continuity Check (with antistatic paint tester) or RADOME-A-53-10-11-02001-365B-C RADOME – Continuity Check (with Megohmmeter)).

If the values are too high, put the radome in the Stove one more hour at 60 °C (140 °F) maximum and do again the Step 1.2.3.5 and Step 1.2.3.6.

Do a check of the thickness 30 to 50 μm (1181.1 to 1968.5 μin) applied.

CAUTION

MAKE SURE THAT YOU APPLY THE ANTI-EROSION PAINT BEFORE A MAXIMUM TIME OF 72 HOURS.

Application of Anti-erosion paint (Celoflex)

Lightly rub the Anti-static paint type II or Anti-static paint kit type II with a scotch-brite or the Abrasive paper (P400 or P600) or Abrasive paper (320 or 400).

Clean the radome with a Dry lint free cloth.

Apply with a Spray gun four layers (max 80 to 100 μm (3149.6 to 3937 μin)) of Anti-erosion paint (Celoflex) from x=0 to 203 mm (7.10) and make a shading off application from x=203 to 278 mm (7.10 to 10.94 in) (Refer to Figure 1 Radome - Finish and Protection).

Note

Wait for 20 minutes between two layers.

Let the paint dry at ambient temperature for a minimum of 24 hours or at a maximum of 60 deg.C (140 deg.F) for 4 hours.

Let it cool at ambient temperature.

Do a check of the thickness 80 to 100 μm (3149.6 to 3937 μin):

Measure the thicknesses on the five antistatic and anti-erosion measure points (studs of each lightning arrestor), by eddy current (Refer to Figure 2 Radome - Location of Control Points of Painting).

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Do the measure of each layer with Thickness Gauge PaintBorer (Refer to Figure 2 Radome - Location of Control Points of Painting and Figure 3 Radome - Paint Borer Method) or eddy current (Refer to Figure 2 Radome - Location of Control Points of Painting) on the top of the radome.

CAUTION

MAKE SURE THAT YOU APPLY THE AIRLINE FINISH PAINT BEFORE A MAXIMUM TIME OF 72 HOURS.

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Apply the airline finish paint (Refer to RADOME-A-53-10-11-12001-664B-C RADOME - Special repair procedure (Application of Airline Finish-Paint))

N/A 1.2.4.8

If the repaired radome has to be delivered without airline finish paint, mark the letter Z on the amendment label to identify the radome.

N/A 1.2.5

Post-Repair Control

Note

If paint thickness is out of tolerance, sand the whole radome paint and do the paint application procedure again from beginning.

N/A 1.2.5.1

Thickness of each layer of paint by paint Borer Method

N/A 1.2.5.1.1

With the Thickness Gauge PaintBorer, do the check at the top of radome cap with the data given in the figure (Refer to Figure 3 Radome - Paint Borer Method)

N/A 1.2.5.1.2

Do a paint touch-up (Refer to RADOME-A-53-10-12-02001-250A-C RADOME - Clean and apply surface protection (Paint Touch-up)).

1.2.5.2 Thickness of each layer of paint by eddy current Method (if paint borer not available)

1.2.5.2.1 Do the Step 1.2.4.6 and Step 1.2.4.6.1.

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1.2.5.2.2 Keep measurements.

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1.2.5.2.3 Do the measurement on previous removed Metallic stickers.

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1.2.5.2.4 Add Metallic stickers measurements to the ones just measured on studs.

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1.2.5.3 The repair sheet related to the paint application has these items:

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- References of materials (life time date of the paint, paint P/N)
- The result of electrical surface resistance and the electrical continuity.
- The result of total thickness of the radome by eddy current sensor method on the lightning arrestor
- The result of the thickness of each layer of paint by Paint borer method.
- The appearance of the paint.

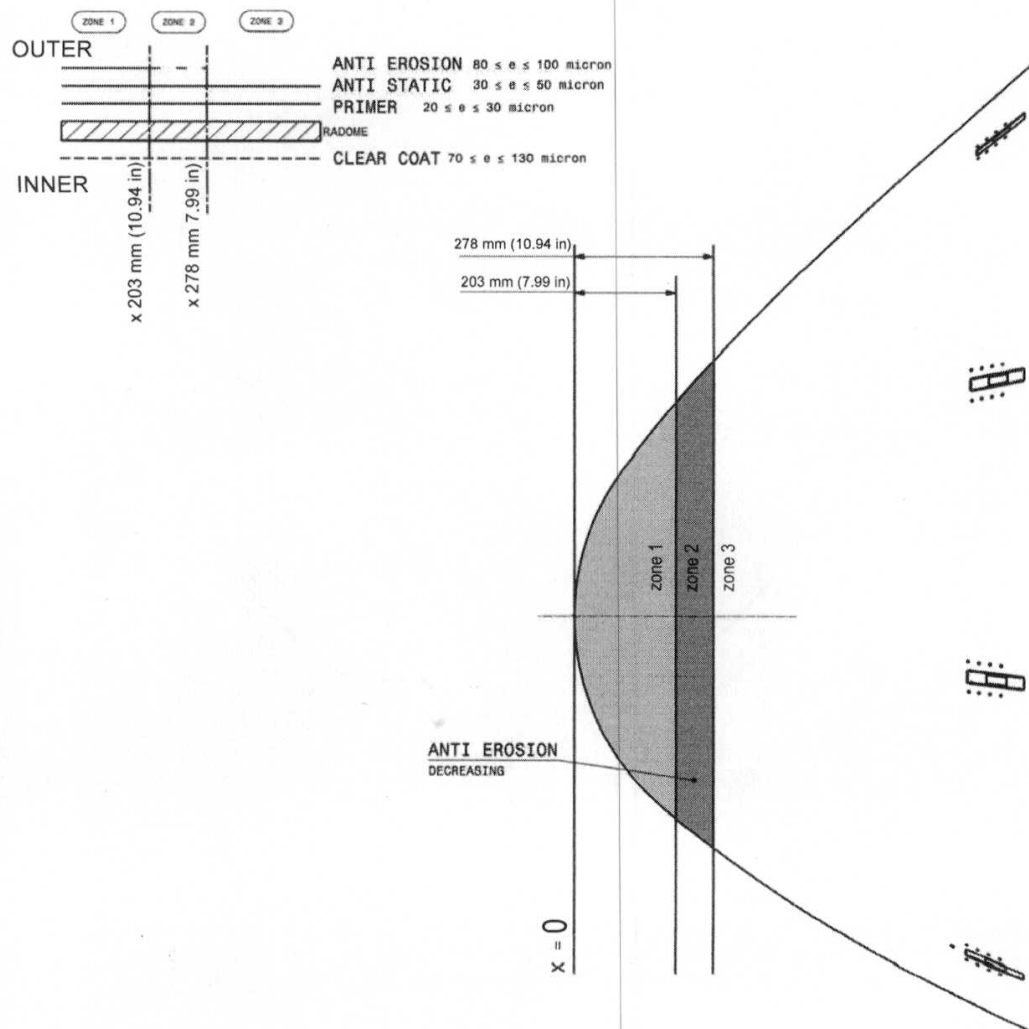
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1.3 Job Close-up

Not applicable

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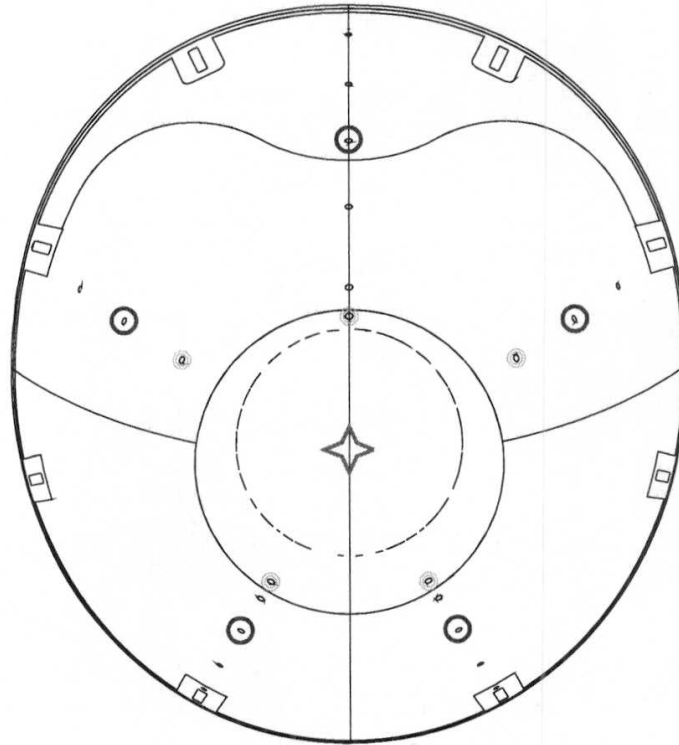


ICN-RADOME-A-531011-A-F6198-00508-A-001-01

Figure 1 Radome - Finish and Protection

53-10-11

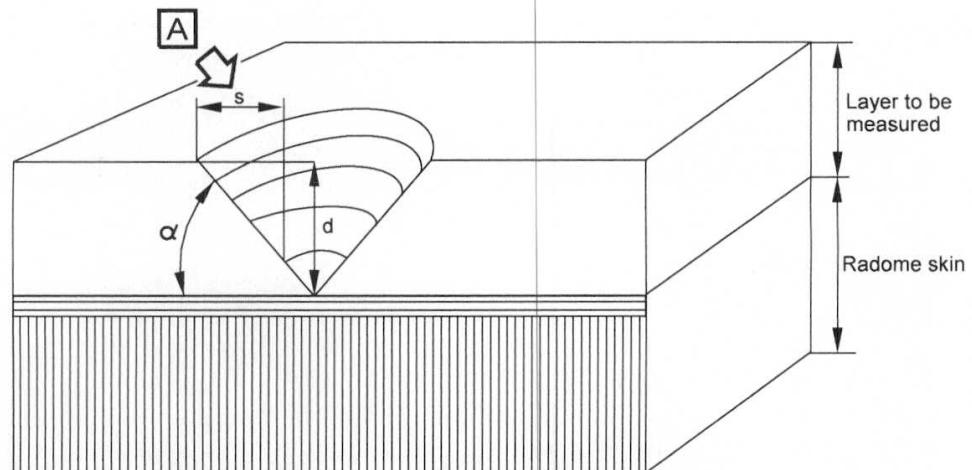
Special repair procedure
Page 7



- 5 Antistatic thickness measurement-points on studs (eddy current measurement)
- ⊙ 5 Antistatic and antierosion thickness measurement-points on studs (eddy current measurement)
- ★ 1 Measurement point for primer, antistatic and antierosion layers (measurement with paintborer)

ICN-RADOME-A-531011-A-F6198-00521-A-001-01

Figure 2 Radome - Location of Control Points of Painting



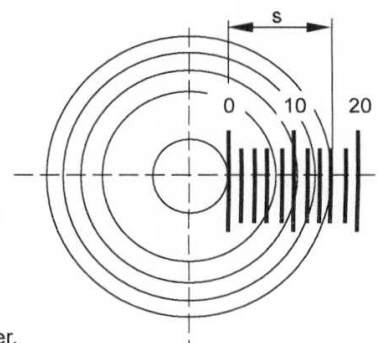
$$d = s \cdot \tan \alpha$$

d=Coating thickness measurement

s=Scale marks measured x Scale factor

α =Cutting angle

Nota: Scale factor and Cutting angle depend on drill number.



ICN-RADOME-A-531011-A-F6198-00522-A-001-01

Figure 3 Radome - Paint Borer Method

End of Data Module: RADOME-A-53-10-11-09001-664B-C

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COMPONENT RESTORATION FORM

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Complete the tables below with the measured values use the column to report them (measure 1).
Each letter corresponds to a lightning arrester strip.
If the values (measure 1) or not according to the expected values, perform the electrical bonding procedure and write the measure on the column (Measure 2)

Lightning Arrester Strip	Measure 1 (Max: 2 m Ω)	Measure 2 (Max: 2 m Ω)	Performed by	Inspected by
A1			N/A	N/A
B2				
A3				
C2				
D				
C1				
A2				
B1				

Nose Radome - electrical surface continuity Test

Complete the table with the measured values, all values must be less than 200 MΩ², use the figures 1 thru 3 attached to identify the points as reference.

Note: Complete the underline beside P letter

Equipments applied to Continuity Check:

Equipment	Part Number	Serial Number	Calibration due date	Performed by	Inspected by
INSULATION TESTER	MU 0182	20410319	DEC.19,2017	TAM - 45674 WILIAN 280170 NOV.4,2017	N/A

P_	P_	P_	P_	P_	Performed by	Inspected by
62 MΩ²	64 MΩ²	41 MΩ²	54 MΩ²	60 MΩ²	TAM - 45674 WILIAN 280170 NOV.4,2017	N/A
53 MΩ²	59 MΩ²	71 MΩ²	51 MΩ²	Σ Pn/n = 57.2 MΩ²		



COMPONENT RESTORATION FORM

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Nose Radome - electrical surface resistance Test				Performed by	Inspected by
Complete the table with the measured values, all values must be within 5 MΩ² and 100 MΩ², use the figures 1 thru 3 attached to identify the points as reference.					
Equipments applied to Continuity Check:					
Equipment	Part Number	Serial Number	Calibration due date		
INSULATION TESTER	MU0182	20410319	Dec.19,2017	TAM - 45674 WILIAN 280170 NOV.4,2017	N/A
P1	P2	P3	P4	P5	
58 MΩ²	62 MΩ²	65 MΩ²	61 MΩ²	74 MΩ²	
P6	P7	P8	P9	P10	
51 MΩ²	67 MΩ²	45 MΩ²	44 MΩ²	38 MΩ²	
P11	P12	P13	P14	P15	
32 MΩ²	31 MΩ²	44 MΩ²	41 MΩ²	45 MΩ²	
P16	P17	P18	P19	P20	
40 MΩ²	63 MΩ²	51 MΩ²	42 MΩ²	63 MΩ²	
P21	P22	P23	P24	P25	
37 MΩ²	53 MΩ²	31 MΩ²	49 MΩ²	55 MΩ²	
P26	P27	P28	P29	P30	
57 MΩ²	31 MΩ²	41 MΩ²	42 MΩ²	44 MΩ²	
P31	P32	P33	P34	P35	
35 MΩ²	48 MΩ²	33 MΩ²	49 MΩ²	64 MΩ²	
P36	P37	P38	P39	P40	
55 MΩ²	61 MΩ²	61 MΩ²	59 MΩ²	60 MΩ²	
P41	P42	P43	P44	P45	
57 MΩ²	42 MΩ²	37 MΩ²	62 MΩ²	36 MΩ²	
P46	P47	P48	P49	Σ Pn/n =	
55 MΩ²	46 MΩ²	40 MΩ²	39 MΩ²	48.8 MΩ²	

Attached figures:

Figure 1

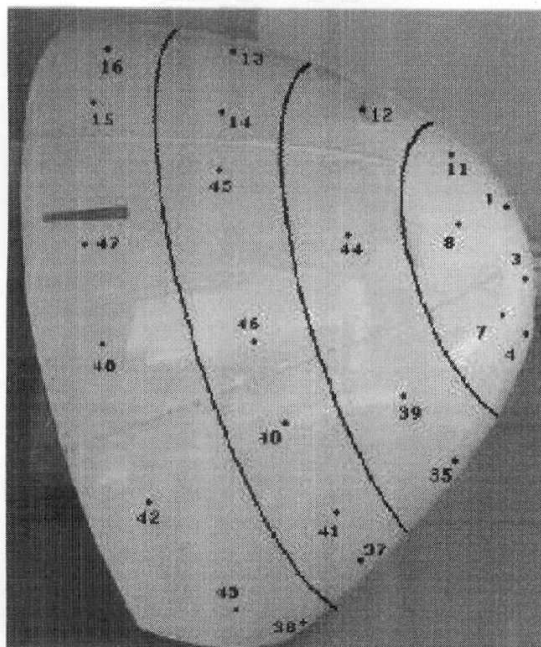


Figure 2

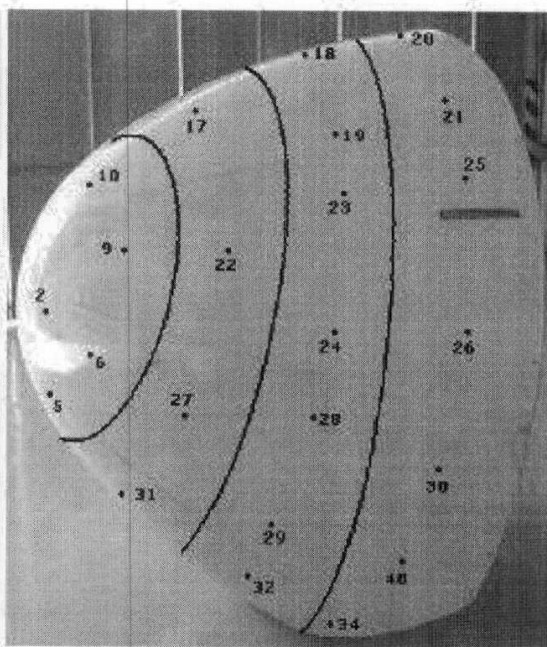
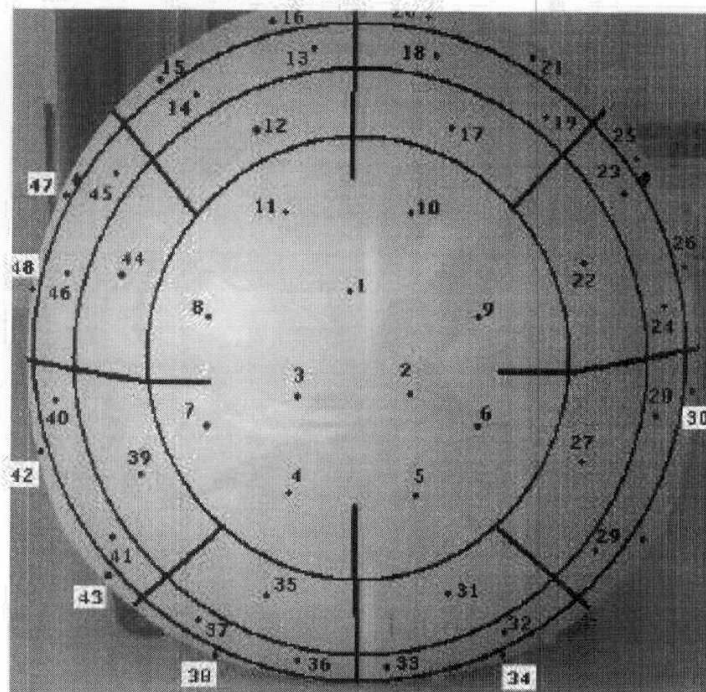


Figure 3





COMPONENT RESTORATION FORM

Procedure N° MY32/003 R10

Application of sealing varnish inside Radome

If the application of sealing varnish is necessary, describe below the sealing varnish thickness.
The nominal thickness must be included between 30 μ and 100 μ .

Performed by:

Inspected by

- Final Thickness: N/A μ mTAM - 45674
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280170

NOV. 4, 2017

N/A

PAINTING PROCESS

Process Parameters:

P=Preparation

A=Application

C=Cure

I=Inspection

Material Description:

WASH
PRIMERPart Number (Base): 7641 3600-KAHAPart Number (Hardener): 0841/9000Part Number (Thinner): 0434 - 9000

Qty used in process:

120 ml

P	Batch (B, H and T)	Expiry Date (B, H and T)	Temp °C	Humidity %	Mix Ratio	Visc. ZAHN 2	Performed by:
	GOC 48087	MAR. 31, 2018	23.8	67.1	1:1:1	13.0	TAM - 11967 MAGDALENO 129634 NOV. 4, 2017
	SHC 32873	DEC. 31, 2017					
	SHC 71655	JAN. 31, 2026					
A	Temp °C	Hum % Cabin	Application Time	Application Man (h/h)	Date	Performed by:	
	24.8	57.6	01:00	0:30	NOV. 4, 2017	TAM - 11967 MAGDALENO 129634 NOV. 4, 2017	
C	Equipment Identification (if applicable): <u>AB.2</u>		Beginning: <u>01:45</u> h	Finish: <u>02:45</u> h		Performed by:	
	Drying Temperature: <u>55</u> °C		Effective Drying Time: <u>1:00</u> h		TAM - 11967 MAGDALENO 129634 NOV. 4, 2017		
I	Visual inspection	Adhesion	Thickness Measured	Others (If applicable)		Performed by:	
	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected Findings: <u>NOT FOUND</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected	<u>8.1</u> μ m	N/A		TAM - 11967 MAGDALENO 129634 NOV. 4, 2017	

P	Batch (B, H and T)	Expiry Date (B, H and T)	Temp °C	Humidity %	Mix Ratio	Visc. ZAHN 2	Performed by:
	0227017030	JUN. 30, 2018	24.3	68.4	2:1:2	19.8	TAM - 11967 MAGDALENO 129634 NOV. 4, 2017
	0227095038	APR. 30, 2019					
	0227087027	APR. 30, 2020					
A	Temp °C	Hum % Cabin	Application Time	Application Man (h/h)	Date	Performed by:	
	24.9	59.9	3:00	0:30	NOV. 4, 2017	TAM - 11967 MAGDALENO 129634 NOV. 4, 2017	



COMPONENT RESTORATION FORM

Procedure N° MY32/003 R10

C	Equipment Identification (if applicable): <u>CAB. 2</u> Beginning: <u>3:45</u> h Finish: <u>4:45</u> h		TAM - 11967 MAGDALENO 129634 NOV. 4, 2017		
	Drying Temperature: <u>60</u> °C Effective Drying Time: <u>1:00</u> h				
I	Visual Inspection <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected Findings: <u>NOT FOUND</u>	Adhesion <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected	Thickness Measured <u>30</u> µm <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected	Others (If applicable) <u>N/A</u>	Performed by: TAM - 11967 MAGDALENO 129634 NOV. 4, 2017

Material Description: <u>ANTI-STATIC</u>	Part Number (Base): <u>5420 2620 - KAD0</u>	Qty used in process: <u>1000 ml</u>
	Part Number (Hardener): <u>07099000 - LQK0</u>	
	Part Number (Thinner): <u>0491/9000</u>	

P	Batch (B, H and T) <u>GOC 60741</u>	Expiry Date (B, H and T) <u>OCT. 31, 2018</u>	Temp °C <u>25.2</u>	Humidity % <u>64.0</u>	Mix Ratio <u>3:1:1</u>	Visc. ZAHN 2 <u>24.3</u>	Performed by: TAM - 45674 WILIAN 280170 NOV. 4, 2017
	<u>SAC 89649</u>	<u>OCT. 31, 2018</u>					
	<u>SAC 70380</u>	<u>DEC. 31, 2025</u>					
A	Temp °C <u>26.2</u>	Hum % Cabin <u>62.3</u>	Application Time <u>11:15</u>	Application Man (h/h) <u>0:50</u>	Date <u>NOV. 4, 2017</u>	Performed by: TAM - 45674 WILIAN 280170 NOV. 4, 2017	
C	Equipment Identification (if applicable): <u>GRION</u> Beginning: <u>12:30</u> h Finish: <u>15:30</u> h						
	Drying Temperature: <u>60</u> °C Effective Drying Time: <u>3:00</u> h						
I	Visual Inspection <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected Findings: <u>NOT FOUND</u>	Adhesion <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected	Thickness Measured <u>35</u> µm <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected	Others (If applicable) <u>N/A</u>		Performed by: TAM - 45674 WILIAN 280170 NOV. 4, 2017	

Material Description: <u>CELOFLEX</u>	Part Number (Base): <u>LATAM0000000000034</u>	Qty used in process: <u>1000 ml</u>					
	Part Number (Hardener): <u>0778-9000</u>						
	Part Number (Thinner): <u>0470-9000 NV</u>						
P	Batch (B, H and T) <u>GOC 58931</u>	Expiry Date (B, H and T) <u>FEB. 28, 2018</u>	Temp °C <u>23.7</u>	Humidity % <u>72.4</u>	Mix Ratio <u>1:1:0.5</u>	Visc. ZAHN 2 <u>21.2</u>	Performed by: TAM - 45674 WILIAN 280170 NOV. 6, 2017
	<u>SAC 86172</u>	<u>JAN. 31, 2018</u>					
	<u>SAC 98348</u>	<u>JUL. 30, 2027</u>					
A	Temp °C <u>25.8</u>	Hum % Cabin <u>69.4</u>	Application Time <u>11:10</u>	Application Man (h/h) <u>1:30</u>	Date <u>NOV. 6, 2017</u>	Performed by: TAM - 45674 WILIAN 280170 NOV. 6, 2017	
C	Equipment Identification (if applicable): <u>CAB. 2</u> Beginning: <u>13:00</u> h Finish: <u>17:00</u> h						
	Drying Temperature: <u>60</u> °C Effective Drying Time: <u>4:00</u> h						
I	Visual Inspection	Adhesion	Thickness Measured	Others (If applicable)		Performed by:	



COMPONENT RESTORATION FORM

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<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected Findings: <u>NOT FOUND</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected	<u>85</u> μ m <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected	<u>N/A</u>	TAM - 45674 WILIAN 280170 <u>NOV. 6, 2017</u>
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Rework: P=Preparation A=Application C=Cure I=Inspection

☒ Step not Applicable (No Rework)

Material Description: <u>GROSS</u> <u>WHITE</u>	Part Number (Base): <u>8800/E0038</u>	Qty used in process: <u>1000ml</u>
	Part Number (Hardener): <u>88002</u>	
	Part Number (Thinner): <u>8800 CT</u>	

P	Batch (B, H and T) <u>A7G164</u> <u>98228732</u> <u>97909463</u>	Expiry Date (B, H and T) <u>JUL. 30, 2019</u> <u>JUN. 30, 2019</u> <u>JUN. 30, 2019</u>	Temp °C <u>25.5</u>	Humidity % <u>61.0</u>	Mix Ratio <u>2:1:1</u>	Visc. ZAHN 2 <u>21.1</u>	Performed by: TAM - 11967 MAGDALENO 129634 <u>NOV. 7, 2017</u>
	Temp °C <u>27.6</u>	Hum % Cabin <u>60.2</u>	Application Time <u>7:15</u>	Application Man (h/h) <u>0:40</u>	Date <u>NOV. 7, 2017</u>	Performed by: TAM - 11967 MAGDALENO 129634 <u>NOV. 7, 2017</u>	
	Equipment Identification (if applicable): <u>CAB. 2</u> Beginning: <u>8:15</u> h Finish: <u>9:15</u> h Drying Temperature: <u>55</u> °C Effective Drying Time: <u>1:00</u> h						
I	Visual inspection <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected Findings: <u>NOT FOUND</u>	Adhesion <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected	Thickness Measured <u>65</u> μ m <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected	Others (If applicable) <u>N/A</u>		Performed by: TAM - 11967 MAGDALENO 129634 <u>NOV. 7, 2017</u>	

Material Description:	Part Number (Base):	Qty used in process:					
	Part Number (Hardener):						
	Part Number (Thinner):						
P	Batch (B, H and T)	Expiry Date (B, H and T)	Temp °C	Humidity %	Mix Ratio	Visc. ZAHN 2	Performed by:
							TAM - 45674 WILIAN 280170 <u>NOV. 7, 2017</u>
A	Temp °C	Hum % Cabin	Application Time	Application Man (h/h)	Date	Performed by:	
						TAM - 45674 WILIAN 280170 <u>NOV. 7, 2017</u>	
C	Equipment Identification (if applicable): _____ Beginning: _____ h Finish: _____ h						Performed by:
	Drying Temperature: _____ °C Effective Drying Time: _____ h						
I	Visual inspection	Adhesion	Thickness Measured	Others (If applicable)		Performed by:	
						TAM - 45674 WILIAN 280170 <u>NOV. 7, 2017</u>	



COMPONENT RESTORATION FORM

Procedure N° MY32/003 R10

<input type="checkbox"/> Approved <input type="checkbox"/> Rejected Findings: _____	<input type="checkbox"/> Approved <input type="checkbox"/> Rejected	<input type="checkbox"/> Approved <input type="checkbox"/> Rejected	<input type="checkbox"/> Approved <input type="checkbox"/> Rejected	_____ μ m	TAM - 45674 WILIAN 280170 NOV. 7, 2017
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Material Description:	Part Number (Base):	Qty used in process:
	Part Number (Hardener):	
	Part Number (Thinner):	

P	Batch (B, H and T)	Expiry Date (B, H and T)	Temp °C	Humidity %	Mix Ratio	Visc. ZAHN 2	Performed by:
							TAM - 45674 WILIAN 280170 NOV. 7, 2017

A	Temp °C	Hum % Cabin	Application Time	Application Man (h/h)	Date	Performed by:
						TAM - 45674 WILIAN 280170 NOV. 7, 2017

C	Equipment Identification (if applicable): _____ Beginning: _____ h Finish: _____ h		Effective Drying Time: _____ h	Performed by:
	Drying Temperature: _____ °C			

I	Visual inspection	Adhesion	Thickness Measured _____ μ m	Others (If applicable)	Performed by:
	<input type="checkbox"/> Approved <input type="checkbox"/> Rejected Findings: _____	<input type="checkbox"/> Approved <input type="checkbox"/> Rejected	<input type="checkbox"/> Approved <input type="checkbox"/> Rejected		TAM - 45674 WILIAN 280170 NOV. 7, 2017

Another procedures

Describe another procedures performed on the component according to an Approved Technical data

☒ N/A

	Performed by:	Inspected by:
	TAM - 45674 WILIAN 280170 NOV. 7, 2017	N/A



COMPONENT RESTORATION FORM

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If any Step of this form was not performed for any reason, write down the motive:		<input checked="" type="checkbox"/> N/A	
Date: N/D	Date: 20/08, 2011		

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REV. N° 003

JUN 26/17

Special repair procedure

DMC: RADOME-A-53-10-11-05001-664B-C (2017-06-26)

1 RADOME – Special repair procedure (Sandwich Zone - Repair by outside on a One-Phase Process (Heat blanket))

Job description

This procedure gives the repair principle for structural repair 200 mm (7.87 in) away from the monolithic area (zone C or D), with pre-preg fabrics when the damage is in sandwich area outer and/or honeycomb skin.

For repair sandwich areas (zone A and B) at 200 mm (7.87 in) from the monolithic areas (Zone C or D), refer to RADOME-A-53-10-11-01001-664B-C RADOME – Special repair procedure (Radome repair).

Note

Ensure that the repair plies are correctly orientated (same orientation between the repair plies and the damaged ply).

For repaired areas integrated in 500 mm (19.68 in) circle in non-restricted area, lay up of circular repair plies is authorized with WARP direction oriented towards radome cap zone center.

Preliminary requirements

Support equipment

Support equipment

Nomenclature	Identification no.	Qty
Vacuum System	Tool: No specific	1
Heat blanket	Tool: No specific	1
Radome support	Tool: No specific	1
Mold	Tool: No specific	1
Local reversed molding	Tool: No specific	1
Marker pencil	Tool: No specific	1
Vacuum cleaner	Tool: No specific	1
Cutter	Tool: No specific	1
Sharped spatula	Tool: No specific	1
Oven	Tool: No specific	1
Rubber spatula	Tool: No specific	1

Consumables, materials and expendables

Consumables, materials and expendables

No	Qty
Pre	
Str	

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Consumables, materials and expendables (continued)

Nomenclature	Identification no.	Qty
Surface adhesive	Cons.: AF325M.035	AR
Resin	Cons.: Araldite AW106	AR
Hardener	Cons.: HV953U	AR
Honeycomb (Hexa =7.8mm, 72kg/m3)	Cons.: HRH10-3/16-4.5 or V00030018200	AR
Honeycomb (Hexa=7.8mm, 144kg/m3)	Cons.: HRH10-1/8-9.0 or V00030019200	AR
Honeycomb (Hexa=25mm, 96kg/m3)	Cons.: HRH10-3/16-6.0 or V00030020200	AR
Alternative honeycomb (Flexcore 7.8mm, 80 kg/m3)	Cons.: HRH10F50-5.0	AR
Vacuum film	Cons.: WN1500	AR
Vacuum bag sealant	Cons.: GS213	AR
Draining fabric	Cons.: COTTON 5145/100	AR
Breather fabric	Cons.: AIRWEAVE N10	AR
Peel ply F	Cons.: 9760 L1500	AR
Fabric	Cons.: 7628	AR
Non perforated release film	Cons.: A4000	AR
Perforated release film	Cons.: WN4500P3	AR
Glass fiber fabric	Cons.: HexForce 00120 1200 Z6040	AR
Isopropyl alcohol	Cons.: No specific	AR
Abrasive paper (P80 or 80)	Cons.: P80 (ISO/FEPA Standard) or 80 (CAMI Standard)	AR
Abrasive paper (P150 or 150)	Cons.: P150 (ISO/FEPA Standard) or 150 (CAMI Standard)	AR
Abrasive paper (P240 or 240)	Cons.: P240 (ISO/FEPA Standard) 240 (CAMI Standard)	AR
Lint-free cloth	Cons.: No specific	1
Demolding Agent	Cons.: No specific	AR
Vacuum tube	Cons.: No specific	AR
Syringe	Cons.: No specific	1

Safety conditions

WARNING

PUT ON APPLICABLE PROTECTIVE GEAR. THE SOLVENT IS DANGEROUS FOR LUNGS, SKIN AND EYES.

MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA. KEEP THE SOLVENT AWAY FROM HEAT OR SPARKS. THE SOLVENT IS FLAMMABLE AND CAN CAUSE EXPLOSIONS.

Procedure

1.1

CAUTION

THE REPAIR WITH HEAT BLANKET IN ONE-PHASE PROCESS IS ONLY POSSIBLE FOR THE DAMAGES LESS THAN OR EQUAL TO 500 mm (19.70 in).

CAUTION

FOR THE REPAIRS, ALWAYS USE A MOLD THAT HAS THE SHAPE OF THE RADOME.

CAUTION

MAKE SURE THAT YOU DEFREEZE THE PRE-PREG FABRIC AT AMBIENT TEMPERATURE FOR 24 h MINIMUM.

CAUTION

FOR STRUCTURAL ADHESIVE FILM, THE AUTHORIZED SHOP LIFE IS 20 DAYS FOR AF163 TYPE AT 23 °C (73.4 °F) AND 30 % RH.

FOR PRE-PREG FABRIC, THE APPROVED SHOP LIFE IS 30 DAYS WORKLIFE. IT INCLUDES 15 DAYS STACK LIFE AT NORMAL WORK CONDITION OF MAX. 24 °C (75.2 °F) AND MAX. 60 % RH.

CAUTION

THE DAMAGE LIMIT IS 200 mm (7.87 in) AWAY FROM THE MONOLITHIC AREAS (ZONE C OR D).

Job Set-up

1.1.1

Preparation

1.1.1.1

Prepare a Local reversed molding. The dimensions of the Local reversed molding must be larger than the dimensions of the Heat blanket.

1.1.1.2

Put the radome on the Radome support.

1.1.1.3

If necessary, remove the metallic parts of damage area:

- Removal of lightning arrestors and studs. (RADOME-A-53-10-11-02001-500B-C RADOME (Lightning Arrestors) – Disconnect, remove and disassemble procedures)
- Removal of lightning blade. (RADOME-A-53-10-11-03001-500B-C RADOME (Lightning Blade) – Disconnect, remove and disassemble procedures)
- Removal of brackets. (RADOME-A-53-10-11-06001-500B-C RADOME (Brackets) – Disconnect, remove and disassemble procedures)
- Removal of equipped fittings with latches. (RADOME-A-53-10-11-04001-500B-C RADOME (Equipped Fittings) – Disconnect, remove and disassemble procedures)

1.1.1.4

Remove the paint with a mechanical stripping method. (RADOME-A-53-10-11-02001-663B-C RADOME – Standard repair procedure (Mechanical Stripping of Paint))

1.1.1.5

Prepare a Local reversed molding.

1.2

Procedure

(Figure 1 Radome - Marking out of Damaged Area, Removal of Layers and Honeycomb)

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Special repair procedure
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(Figure 2 Radome - Repair by Outside on a One-Phase Process (Heating Blanket))

(Figure 3 Radome - Installation of the Heating Element and the Vacuum Molding Device)

(Figure 4 Radome - Resin Injection Into the Vent-Hole)

1.2.1

Removal of Outer Layers and Honeycomb

Make a circular mark (ϕx) around the damaged area with a Marker pencil. Refer to Figure (Figure 1 Radome - Marking out of Damaged Area, Removal of Layers and Honeycomb).

If the repair steps go across the insert area, increase the repair area to include insert area.

CAUTION

WHEN CUTTING OUT THE OUTSIDE LAYER, DO NOT CUT THE UNDERLYING LAYERS OR THE UNDAMAGED SKIN AT THE PERIPHERY.

CAUTION

DO NOT CUT THE CORE OF THE UNDERLYING HONEYCOMB OR THE UNDAMAGED LAYERS AT THE PERIPHERY WHEN CUTTING OUT THE INSIDE LAYER.

Cut out and remove each layer of the outer skin with a Cutter or Sharped spatula.

Cut the inner layer to a dimension more than the periphery of the damaged area in relation to the number of plies that overlaps.

Cut the inside layers to have the shape of steps around the perimeter of the damaged area.

Cut the steps making overlaps of 15 ± 3 mm (0.59 ± 0.11 in).

CAUTION

THE HONEYCOMB MUST BE CUT OUT PERPENDICULARLY TO THE HONEYCOMB CORE. DO NOT CUT THE INNER SKIN LAYER WHEN THE HONEYCOMB IS CUT.

Carefully cut out the damaged honeycomb at the same size as the last outer layer removed.

Remove the cut out honeycomb.

Cut out and remove each layers of the outer skin.

Moisture Removal

Note

Do this step to remove all traces of humidity.

Put the radome in an Oven or use the Heat blanket (Refer to SRM 51-77-11 - Air intake flow).

CAUTION

A TEMPERATURE MORE THAN +60 °C (140 °F) CAN CAUSE DAMAGE.

Set and keep the temperature to 60 °C (140 °F) for 12 h minimum.

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LEANDRO 1.2.2.3 ✓

Let the temperature of the radome decrease until it is the same as the ambient temperature.

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LEANDRO 1.2.2.4 ✓

Remove the radome from the Oven or remove the Heat blanket.

LEANDRO 1.2.3

CAUTION

BE CAREFUL NOT TO CAUSE DAMAGE WHEN YOU DO THIS OPERATION.

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Preparation of Repair Area

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Drill a vent hole to a Dia. 4 mm (0.16 in) at the center of damaged area from inner side to outer side.

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LEANDRO 1.2.3.2 ✓

Lightly rub the damage area with Abrasive paper (P80 or 80) to get chamfers.

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LEANDRO 1.2.3.3 ✓

Remove all particles (caused by the rubbing operation) with a Vacuum cleaner.

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LEANDRO 1.2.3.4 ✓

Clean and remove the grease from the work area with a clean Lint-free cloth and Isopropyl alcohol.

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LEANDRO 1.2.3.5 ✓

Let the work area dry before you continue work on the repair area.

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LEANDRO 1.2.3.6 ✓

Prepare the surface before bonding. (RADOME-A-53-10-11-01001-663B-C RADOME - Standard repair procedure (Prepare the surface before bonding))

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LEANDRO 1.2.4

CAUTION

USE THE CORRECT HEXAGONAL HONEYCOMB:

N/A - HONEYCOMB (HEXA = 7.8MM, 72KG/M3) FOR LATERAL ZONE (ZONE A)

N/A - HONEYCOMB (HEXA = 7.8MM, 144KG/M3) FOR CONE ZONE (ZONE A)

N/A - HONEYCOMB (HEXA = 25MM, 96KG/M3) FOR THICK ZONE (ZONE B)

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- ALTERNATIVE HONEYCOMB (FLEXCORE 7.8MM, 80 KG/M3) FOR LATERAL AND CONE ZONES (ZONE A).

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Preparation of Repair Layers and Honeycomb Replacement Parts

Note

The cone zone is the area inside diameter 490 mm (19.29 in) around the front of radome, or up to X = 60 mm (2.36 in).

N/A 1.2.4.1

If you use Honeycomb (Hexa=7.8mm, 144kg/m3) for cone repair, do the thermal moulding treatment that follows:

Note

This procedure is related to areas with groups of defects.

1.2.4.1.1

Cut out a part from the Honeycomb (Hexa=7.8mm, 144kg/m3) as the same dimension of the repair.

1.2.4.1.2

Put the Honeycomb (Hexa=7.8mm, 144kg/m3) in a form with a radius of curvature equal to 500 mm (19.68 in).

1.2.4.1.3

Install the vacuum molding device and set the vacuum level at 0.10 bar (2.95 inHg(32F)) maximum.

1.2.4.1.4

Install it in an Oven.

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- 1.2.4.1.5 Increase the temperature from ambient temperature to $170 \pm 10^\circ\text{C}$ ($338 \pm 18^\circ\text{F}$) in increments of $3 \pm 1^\circ\text{C/min}$ ($5.4 \pm 1.8^\circ\text{F/min}$).
- 1.2.4.1.6 Then, keep the temperature stable at $170 \pm 10^\circ\text{C}$ ($338 \pm 18^\circ\text{F}$) for $2 \text{ h} \pm 10 \text{ min}$ and with vacuum level at $0.90 \pm 0.5 \text{ bar}$ ($26.6 \pm 15 \text{ inHg}(32\text{F})$).
- 1.2.4.1.7 After 2 h, let the temperature decrease to $30 \pm 10^\circ\text{C}$ ($86 \pm 18^\circ\text{F}$).
- 1.2.4.1.8 Remove the vacuum, end of cycle.
- 1.2.4.2 Prepare the honeycomb replacement part:
- 1.2.4.2.1 Cut out a piece of the honeycomb with a diameter larger by one cell than the hole diameter.
- 1.2.4.3

CAUTION

MAKE SURE THAT THE LIFE TIME OF THE LAYERS IS NOT EXPIRED.

Prepare the repair layers:

Cut the layers of Structural adhesive and the Pre-preg fabric as shown in the figure (Figure 2 Radome - Repair by Outside on a One-Phase Process (Heating Blanket))

- Surface layer: A layer of Structural adhesive or Surface adhesive
- Bond of honeycomb: two layers of Structural adhesive
- Skin layers outer skins: three layers of Pre-preg fabric.

CAUTION

THE HEATING ELEMENT DIAMETER MUST BE 100 mm (3.94 in) WIDER THAN THE REPAIR DIAMETER.

CAUTION

CURING SHALL BE MONITORED WITH THERMOCOUPLES. REFER TO THE SRM 51-77-11 FOR INSTALLATION.

Installation of the Heating Element and the Vacuum Molding Device on the Inner Side of the Radome (Heat Blanket)

Put the first heating element on the inner side of radome:

Note

The heating diameter must be larger by 100 mm (3.94 in) than the repair diameter.

Put the Peel ply F with a diameter that is equal to the repair diameter increased of 50 mm (1.97 in).

Put the Perforated release film with its Dia. > repair Dia.

Put the two Draining fabric with their Dia. > Perforated release film Dia.

Put the Non perforated release film with its Dia. > Draining fabric Dia.

Wind the Fabric around the Heat blanket. Then install the Heat blanket.

Put the four Breather fabric.

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CAUTION

MAKE SURE THAT NO AIR CAN GO INTO THE VACUUM CIRCUIT.

1.2.5.2
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Install the vacuum molding device:

Apply Vacuum bag sealant around the repair area.

Install the Vacuum film over the repair and connect the Vacuum tube.

1.2.5.2.1

1.2.5.2.2

1.2.6

Phase of the Repair

(Figure 2 Radome - Repair by Outside on a One-Phase Process (Heating Blanket))

1.2.6.1

Install a layer of Structural adhesive on inner skin.

1.2.6.2

Drill a hole to a Dia. 4 mm (0.16 in) on installed Structural adhesive through the vent hole made before.

1.2.6.3

Carefully install the honeycomb replacement part. As far as possible, align the new and the existing cells.

1.2.6.4

Install a layer of Structural adhesive.

1.2.6.5

Carefully put the three layers of repair Pre-preg fabric on the Structural adhesive.

1.2.6.6

Install a surface layer of Structural adhesive or Surface adhesive on the Pre-preg fabric.

1.2.7

CAUTION

THE HEATING ELEMENT DIAMETER MUST BE 100 mm (3.94 in) WIDER THAN THE REPAIR DIAMETER.

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CAUTION

INSTALL THE HEATING ELEMENT AND THE VACUUM MOLDING DEVICE ON THE MOLD TO GET THE REQUIRED TEMPERATURE DURING THE CURING.

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Installation of the second Heating Element And the Vacuum Molding Device on the Outer side of the Radome (Heat Blanket)

(Figure 3 Radome - Installation of the Heating Element and the Vacuum Molding Device)

1.2.7.1

Install the second heating element on the outer side of radome:

1.2.7.1.1

Put the Peel ply F (dia > dia reverse moulding).

1.2.7.1.2

Put the reverse moulding in position.

1.2.7.1.3

Wind the Fabric around the Heat blanket. Then install the Heat blanket.

1.2.7.1.4

Put the four Breather fabric.

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Special repair procedure

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LEANDRO 1.2.7.2
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CAUTION

MAKE SURE THAT NO AIR CAN GO INTO THE VACUUM CIRCUIT.

CAUTION

INSTALL A VACUUM MOLDING DEVICE ON AN AREA GREATER THAN NECESSARY TO MAKE SURE THAT YOU CAN REMOVE THE AIR BUBBLES WITH A RUBBER SPATULA ALONG THE COMPLETE REPAIR SURFACE.

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Install the vacuum molding device

Apply Vacuum bag sealant around the repair area.

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Install the Vacuum film over the repair and connect the Vacuum tube.

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Complete the Vacuum System installation and make sure that the circuit is airtight.

Do the curing. (RADOME-A-53-10-11-08001-664B-C RADOME – Special repair procedure (Curing Process))

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Resin Injection Into the Vent-Hole
(Figure 4 Radome - Resin Injection Into the Vent-Hole)

Drill again dia. 4 mm (0.16 in) vent-hole on inner skin.

Carefully clean the drilled hole.

Prepare the epoxy resin (Five parts of Resin + four parts of Hardener.

Put the epoxy resin into the dia. 4 mm (0.16 in) vent-hole with a Syringe until the resin overflows.

Note

To make resin flow easier, do not put a needle in the Syringe.

Install the Glass fiber fabric to a dia. 20 ± 5 mm (0.787 \pm 0.20 in).

Put the Peel ply F to a dia. 70 ± 5 mm (2.755 \pm 0.20 in).

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ANTONIO 1.2.8.7.4
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ANTONIO 1.2.8.7.5
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CAUTION

INSTALL A VACUUM MOLDING DEVICE ON AN AREA GREATER THAN NECESSARY TO MAKE SURE THAT YOU CAN REMOVE THE AIR BUBBLES WITH A RUBBER SPATULA ALONG THE COMPLETE REPAIR SURFACE.

Install the vacuum molding device:

Apply Vacuum bag sealant around the repair area.

Cut to the dimension and install the Vacuum film along the draining fabrics.

Complete the Vacuum System.

Make sure that the circuit is airtight.

Set the vacuum level on the vacuum gauge to 0.8 bar (23.6 inHg(32F)) minimum.

Special repair procedure

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1.2.8.7.5.1 Let cure the resin at ambient temperature during 24 h or at 60 °C (140 °F) maximum during 60 min using heating element.

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1.2.8.7.5.2 / Disconnect then remove the vacuum molding device.

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1.2.8.7.5.3 Remove the Peel ply F.

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1.2.9 Finish Phase

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1.2.9.1 Remove the radome from the Mold and install on Radome support.

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1.2.9.2 Do the post repair inspection (RADOME-A-53-10-11-04001-300B-C RADOME – Examinations, tests and checks (Post Repair Inspection)).

CAUTION

DO NOT DAMAGE THE UPPER LAYER.

Cleaning

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1.2.9.3.1 Carefully rub down the edges of the repaired area with Abrasive paper (P150 or 150), then Abrasive paper (P240 or 240).

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1.2.9.3.2 Remove all dust caused by rubbing down with a vacuum cleaner.

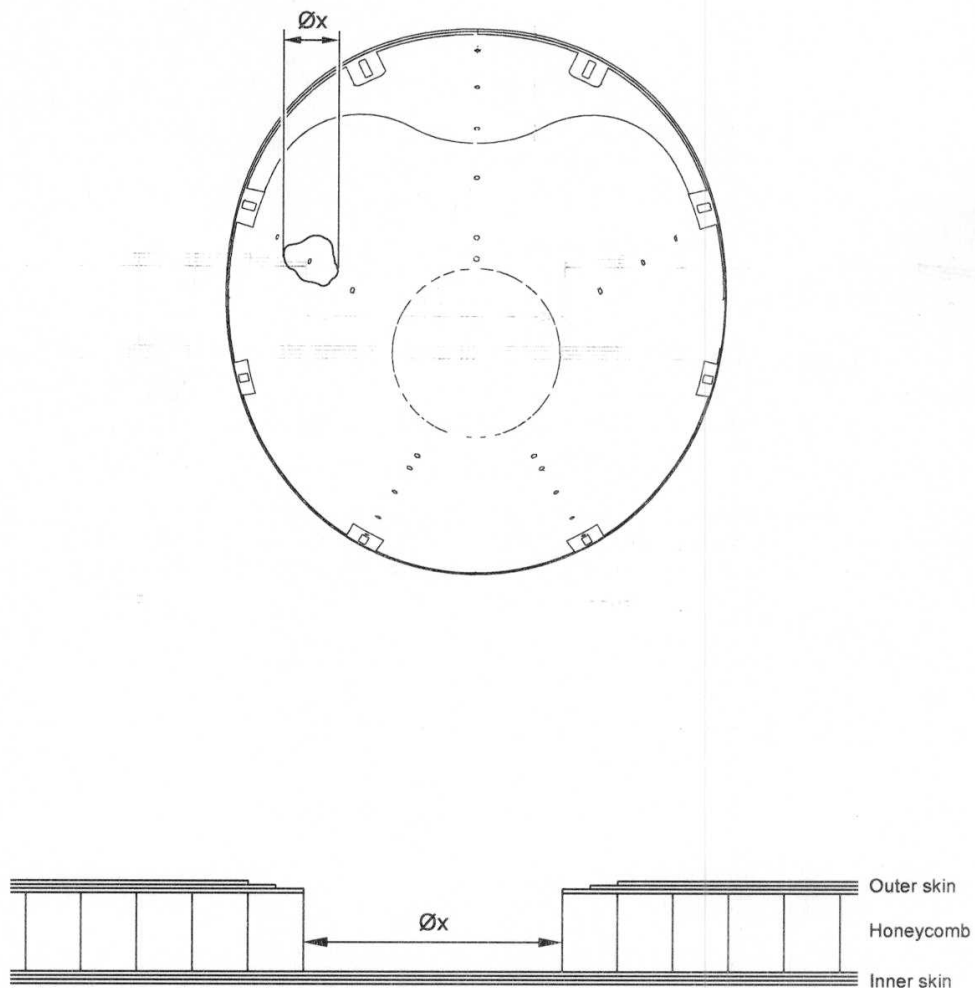
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1.2.9.3.3 Make the Lint-free cloth moist with Isopropyl alcohol.

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1.2.9.3.4 Clean the surface of the radome the moist Lint-free cloth.

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1.2.9.3.5 Let the Isopropyl alcohol dry before you continue the task.

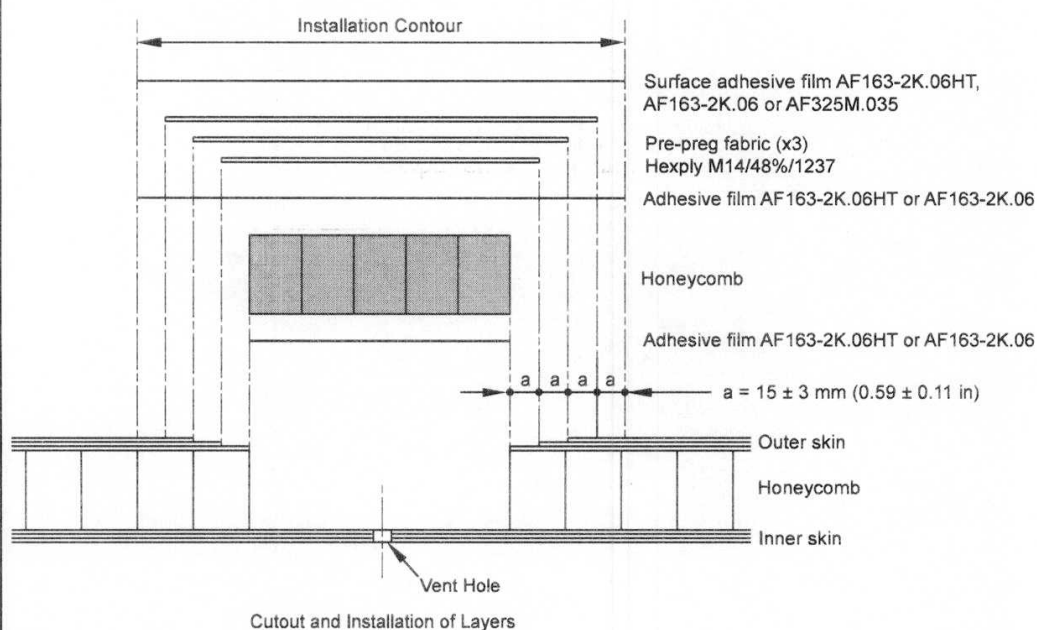
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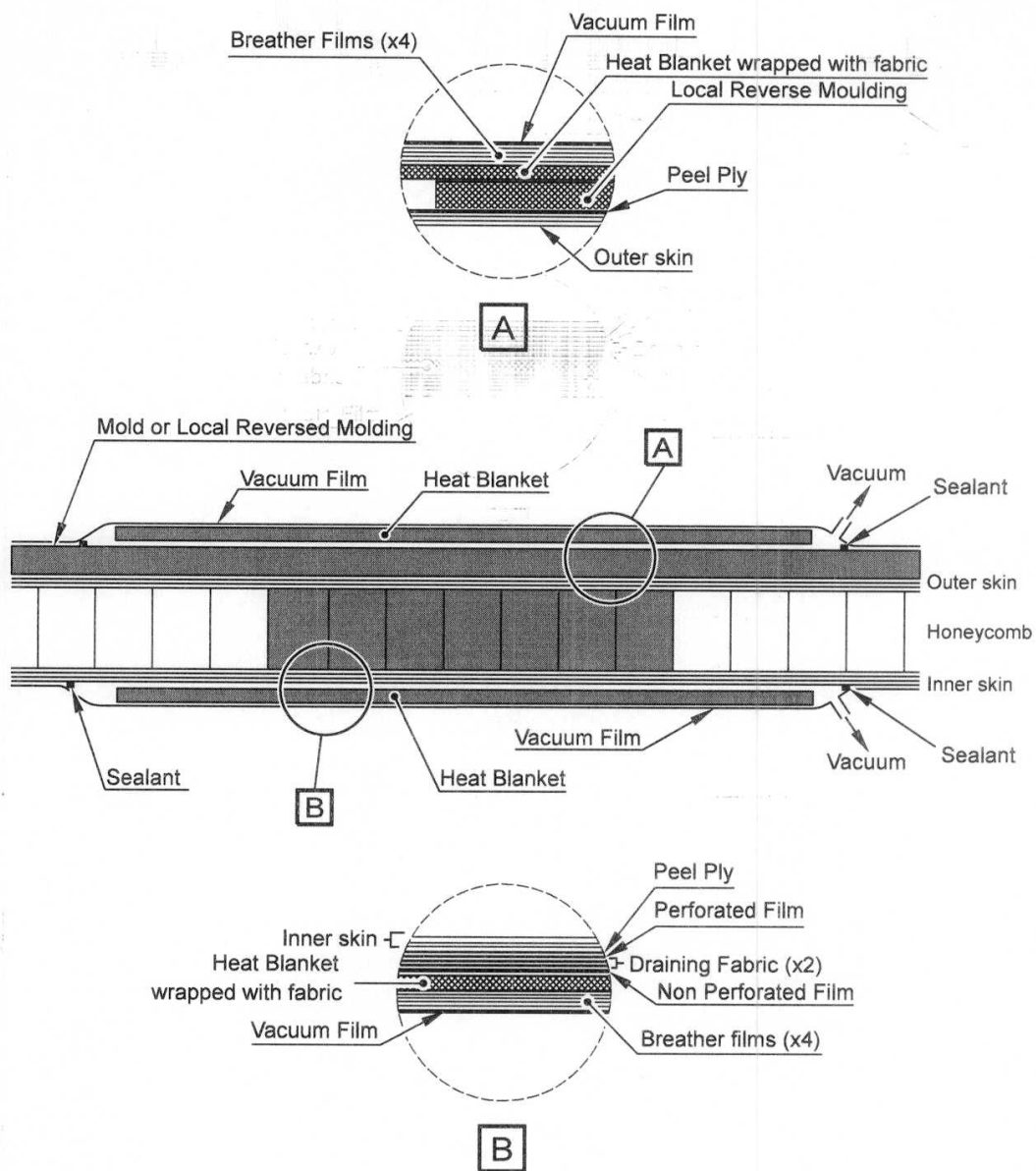
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Figure 1 Radome - Marking out of Damaged Area, Removal of Layers and Honeycomb



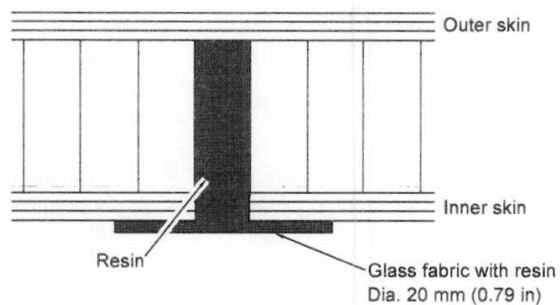
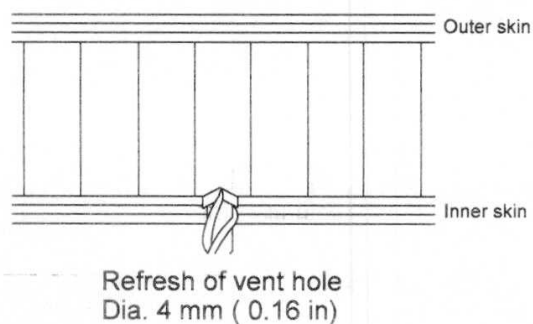
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Figure 2 Radome - Repair by Outside on a One-Phase Process (Heating Blanket)



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Figure 3 Radome - Installation of the Heating Element and the Vacuum Molding Device



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Figure 4 Radome - Resin Injection Into the Vent-Hole

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Component Maintenance Publication

Close up procedures

Required condition

Required condition – Close-up requirements

Required condition	Data module / Publication identifier
Install the new insert related to the repaired area.	RADOME-A-53-10-11-13001-664B-C RADOME – Special repair procedure (Replacement of lightning arrestor insert)
Install the equipped fitting, if necessary.	RADOME-A-53-10-11-04001-700B-C RADOME (Equipped Fitting) – Assemble, install and connect procedures
Install the brackets, if necessary.	RADOME-A-53-10-11-06001-700B-C RADOME (Brackets) – Assemble, install and connect procedures
Install the lightning blade, if necessary.	RADOME-A-53-10-11-03001-700B-C RADOME (Lightning Blade) – Assemble, install and connect procedures
Install the lightning arrestors and studs, if necessary.	RADOME-A-53-10-11-02001-700B-C RADOME (Lightning Arrestors) – Assemble, install and connect procedures
Do a varnish application.	RADOME-A-53-10-11-11001-664B-C RADOME – Special repair procedure (Application of sealing varnish inside Radome)
✓ Do a paint application and do a check the paint thickness.	RADOME-A-53-10-11-09001-664B-C RADOME – Special repair procedure (Application of Paint)
Do the electrical bonding check, if necessary.	RADOME-A-53-10-11-03001-300B-C RADOME – Examinations, tests and checks (Electrical bonding check)
Do a continuity check	RADOME-A-53-10-11-01001-365B-C RADOME – Continuity Check (with antistatic paint tester)
or	RADOME-A-53-10-11-02001-365B-C RADOME – Continuity Check (with Megohmmeter)
Do a resistance check	RADOME-A-53-10-11-01001-366B-C RADOME – Resistance Check (with antistatic paint tester)
Or	RADOME-A-53-10-11-02001-366B-C RADOME – Resistance Check (with Megohmmeter)

End of Data Module: RADOME-A-53-10-11-05001-664B-C

Special repair procedure

DMC: RADOME-A-53-10-11-08001-664B-C (2017-06-26)

1 RADOME – Special repair procedure (Curing Process)

Job description

This procedure gives the instructions of the curing process when you do the structural repairs.
Use one of the 2 methods related to the available means:

- Curing with heat blanket
- Curing with autoclave.

Preliminary requirements

Support equipment

Support equipment

Nomenclature	Identification no.	Qty
Hot bonding	Tool: No specific	1
Vacuum system	Tool: No specific	1
Autoclave	Tool: No specific	1
Radome support	Tool: No specific	1
Mold	Tool: No specific	1
Local reversed molding	Tool: No specific	1

Procedure

1.1 Job Set-up

Not applicable

1.2 Procedure

1.2.1 Curing With Heat Blanket

1.2.1.1 Connect the temperature control system of the Hot bonding and Vacuum system to the vacuum molding device.

1.2.1.2 Apply the vacuum level of 0.8 bar (24 inch of Hg) in the vacuum molding device.

1.2.1.3 Obey this curing cycle:

1.2.1.3.1 Increase the temperature from ambient temperature to 95 ±3 deg.C (203 ±5.4 deg.F) in increments of 3±1 deg.C (37.4 ± 1.8 deg.F) per minute.

1.2.1.3.2 Keep a stable temperature at 95 ±3 deg.C (203 ±5.4 deg.F) for 6 hours (0/+30 minutes).

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- 1.2.1.3.3 After 6 hours (0/+30 minutes), let the temperature decrease to 30±10 deg.C (86 ±18 deg.F).
- 1.2.1.4 Disconnect the Hot bonding and Vacuum system to the vacuum molding device.
- 1.2.1.5 Remove the vacuum molding device and the heating element installed on the inner side of the radome.
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nov 02, 2017
- 1.2.2 Curing With Autoclave**
- N/A 1.2.2.1 Curing Cycle at 120 deg.C (248 deg.F) for 2 hours or at 95 deg.C (203 deg.F) for 6 hours
- Note**
When curing, make sure that the vacuum bag contains all the radome shell and it is tightened on the mold structure edge.
- N/A 1.2.2.1.1 Obey this curing cycle (120 deg.C (248 deg.F)):
- N/A 1.2.2.1.1.1 Apply the vacuum level of 0.15 ±0.05 bar (4.4 ±1.5 inch of Hg) in the vacuum molding device.
- N/A 1.2.2.1.1.2 After 5 min minimum, apply the Autoclave pressure from 0 to 1.6 -0/+0.2 bar (47.2 -0/+5.9 inch of Hg) in increments of 0.5 -0/+0.5 bar (15 -0/+15 inch of Hg) per minute.
- N/A 1.2.2.1.1.3 After 5 -0/+5 min, increase the Autoclave temperature from ambient temperature to 80 ±5 deg.C (176 ±9 deg.F) in increments of 3 ±1 deg.C (37.4 ±1.8 deg.F) per minute. At 60° deg.C (140 deg.F).
- N/A 1.2.2.1.1.4 Keep a stable temperature at 80 ±5 deg.C (176 ±9 deg.F) for 30 ±5 minutes.
- N/A 1.2.2.1.1.5 Increase the temperature from 80 ±5 deg.C (176 ±9 deg.F) to 120 deg.C (248 deg.F) (0 deg.C, +5 deg.C (32 deg.F, +9 deg.F)) in increments of 3 ±1 deg.C (37.4 ±1.8 deg.F) per minute.
- N/A 1.2.2.1.1.6 Keep a stable temperature at 120 deg.C (248 deg.F) (0 deg.C, +5 deg.C (32 deg.F, +9deg.F)) for 2 hours (0, +30 minutes).
- N/A 1.2.2.1.1.7 Decrease the temperature from 120 deg.C (248 deg.F) (0 deg.C, +5 deg.C (32 deg.F, +9deg.F)) to 65 ±5 deg.C (149 ±9 deg.F), in increments of 0.5 ±0.2 deg.C (33 ±0.36 deg.F) per minutes.
- N/A 1.2.2.1.1.8 Remove the autoclave pressure (from 1.6 -0/+0.2 bars (47.2 -0/+5.9 inch of Hg) to 0 bar (0 inch of Hg), decreasing 0.5 -0/+0.5 bar (15 -0/+15 inch of Hg) per minute.
- N/A 1.2.2.1.1.9 Let the temperature decrease to 30 ±10 deg.C (86 ±18 deg.F).
- N/A 1.2.2.1.2 Obey this curing cycle (95 deg.C (203 deg.F)):
- N/A 1.2.2.1.2.1 Apply the vacuum level of 0.15 ±0.05 bar (4.4 ±1.5 inch of Hg) in the vacuum molding device.
- N/A 1.2.2.1.2.2 After 5 min minimum, apply the Autoclave pressure from 0 to 1.6 -0/+0.2 bar (47.2 -0/+5.9 inch of Hg) in increments of 0.5 -0/+0.5 bar (15 -0/+15 inch of Hg) per minute.
- N/A 1.2.2.1.2.3 After 5 -0/+5 min, increase the Autoclave temperature from ambient temperature to 95 deg.C (203 deg.F) in increments of 3 ±1 deg.C (37.4 ±1.8 deg.F) per minute.
- N/A 1.2.2.1.2.4 Keep a stable temperature at 95±5 deg.C (203 ±9 deg.F) for 360 0/+30 minutes.
- N/A 1.2.2.1.2.5 After 35 minutes, remove the vacuum in the vacuum molding device.
- N/A 1.2.2.1.2.6 After 6h, decrease the temperature from 95±5 deg.C (203 ±9 deg.F) to ambient temperature in increments of 3 ±1 deg.C (37.4 ±1.8 deg.F) per minute.

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- N/A 1.2.2.1.2.7 At 70 deg.C (158 deg.F), remove the autoclave pressure (from 1.2 -0/+0.2 bars (35.4 -0/+5.9 inch of Hg) to 0 bar (0 inch of Hg), decreasing 0.5 -0/+0.5 bar (15 -0/+15 inch of Hg) per minute.
- N/A 1.2.2.1.2.8 Let the temperature decrease to 30 ±10 deg.C (86 ±18 deg.F).
- N/A 1.2.3 **Finish phase**
- N/A 1.2.3.1 Remove the radome from the Mold or Local reversed molding and install on Radome support.
- N/A 1.2.3.2 Continue the related repair.

Close up procedures

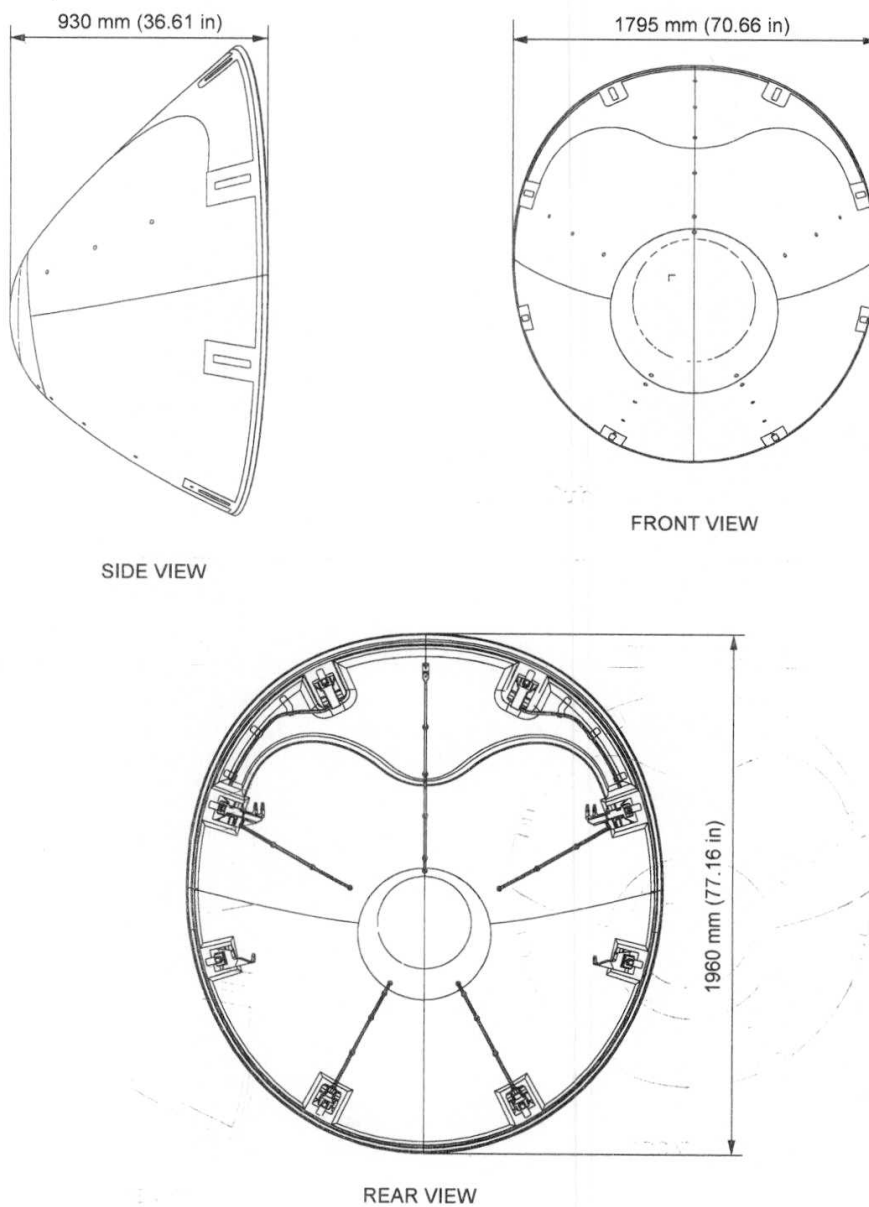
Required condition

Required condition – Close-up requirements

Required condition	Data module / Publication identifier
For the installation of the metallic parts and lightning arrestors (Refer to Assembly procedure).	n/a

End of Data Module: RADOME-A-53-10-11-08001-664B-C

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ICN-RADOME-A-531011-A-F6198-00509-A-001-01

Figure 1 Radome - Overall dimensions

End of Data Module: RADOME-A-53-10-11-01001-030B-C

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Technical data
Page 2

WORKSHOPS STRUCTURAL DAMAGE REPAIR REPORT	OS/Bar Code: <u>T00C\$C6L</u> Identification Tag: <u> </u>
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1. GENERAL INFORMATION:

PART DESCRIPTION: <u>NOSE RADOME</u>		CSI: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
MANUFACTURER: <u>AIRBUS</u>	POSITION: <u>ONLY</u>	
P/N: <u>V53132010000</u>	S/N: <u>RADV0042</u>	

2. DAMAGE TYPE, IDENTIFICATION, LOCATION AND DIMENSIONS:

IDENTIFICATION OF THE AFFECTED PART: <input type="checkbox"/> SRM <input type="checkbox"/> CMM <input type="checkbox"/> IPC					
ATA: <u>53-10-11</u> CONFIG: <u>—</u> FIGURE: <u>—</u> SHEET: <u>—</u> ITEM: <u>—</u> REVISION: <u>Nº003 Jun 26/17</u>					
<input type="checkbox"/> DENT	<input type="checkbox"/> WEAR	<input type="checkbox"/> NICK	<input type="checkbox"/> CRACK	<input checked="" type="checkbox"/> DISBONDING	<input type="checkbox"/> DELAMINATION
<input type="checkbox"/> LIGHTNING STRIKE	<input type="checkbox"/> EROSION	<input type="checkbox"/> GOUGE	<input type="checkbox"/> SCRATCH	<input type="checkbox"/> OIL CANNING	<input type="checkbox"/> PUNCTURE
<input type="checkbox"/> CORROSION <input type="checkbox"/> Type Pitting <input type="checkbox"/> Type Exfoliation CPCP LEVEL: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			<input type="checkbox"/> OTHER DAMAGE(specify): <u> </u>		
LOCATION (Example :Frame / RIB / Skin / LH/RH / Spar / Inner or outer / Station / Distance to internal element):					
<u>OUTER SKIN</u>					
Perform the Detailed Visual Inspection at damaged area and on adjacent structures/areas in order to find additional and hidden damages. <input checked="" type="checkbox"/> No additional damages have been found. <input type="checkbox"/> Additional damages have been found besides the one found initially. Additional Damage: <u> </u>				PERFORMED BY <u>[Signature]</u> TAM - 46846 LEANDRO 184815 Date: <u>OCT. 31, 2017</u>	INSPECTED BY <u>N/A</u> Date: <u> </u>

3. INSPECTIONS:

METHOD USED	MANUAL REFERENCE	RESULTS / NOTES	PERFORMED BY	INSPECTED BY
<u>TAP TEST</u>	<u>53-10-11</u>	<u>Disbonding</u>	<u>[Signature]</u> TAM - 46846 LEANDRO 184815 Date: <u>OCT. 31, 2017</u>	<u>N/A</u> Date: <u> </u>
<div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black;"></div> </div>				
DAMAGE FINAL DESCRIPTION AND DIMENSIONS (take pictures of damaged area):			PERFORMED BY	INSPECTED BY
<u>Debonding 155 x 95 mm</u>			<u>[Signature]</u> TAM - 46846 LEANDRO 184815 Date: <u>OCT. 31, 2017</u>	<u>[Signature]</u> TAM - 10582 JULIO 116827 Date: <u>OCT. 31, 2017</u>



WORKSHOPS
STRUCTURAL DAMAGE REPAIR REPORT

OS/Bar Code: T00C\$C6L

Identification Tag: _____

Based on previous inspections, is the damaged part/component repairable as per an approved data?

☒ Yes, the approved data must be recorded on the field FINAL REPAIR DESCRIPTION.

☐ No, the part must be forwarded to scrapping or an external OEM repair station.

EVALUATED BY

VALIDATED BY

TAM - 46846
LEANDRO
184815

N/A

Date: Oct. 31, 2017

Date: _____

4. FINAL REPAIR DESCRIPTION:

☐ NEGLIGIBLE DAMAGE // ☐ ALLOWABLE DAMAGE // ☐ CMM/SRM REPAIR // ☐ OTHER (specify): CMP

MANUAL APPROVAL REFERENCE:

☐ Aircraft SRM ATA: 53-10-11 REV.: Nº003 Jun 26/17

☐ CMM ATA: _____ REV.: _____

☐ Vendor SRM ATA: _____ REV.: _____

TASK: RADOME-A-53-10-11-05001-664B-C

TASK: _____

TASK: _____

TASK: _____

TASK: _____

TASK: _____

ENGINEERING

Engº Mario Sergio Braga
LATAM AIRLINES GROUP
CREA-SP: 0682526455

Date: Oct 31, 2017

IS THERE ANY DEVIATION OR ADDITIONAL WORK ON THE PERFORMED REPAIR? ☐ NO ☐ YES

Description: _____

Approval Reference: _____

ENGINEERING

Date: _____

Make sure that repair area is free of tools, equipment and loose articles related to the repair accomplishment, prior to finish task.

PERFORMED BY

RELEASED / INSPECTED BY

TAM - 16130
ANTONIO
141088

TAM - 10582
JULIO
116827

Date: Nov. 02, 2017

Date: Nov. 02, 2017

ANNEXES:

☐ Grid Mapping Report Sheet (FTT-21-07-60)

☒ Pictures/Sketches

☐ Other (Specify): _____

☐ NDT Report Nºs: _____

REMARKS:

No remarks

PERFORMED BY:

RELEASED BY

IIO/CSI PERFORMED BY:

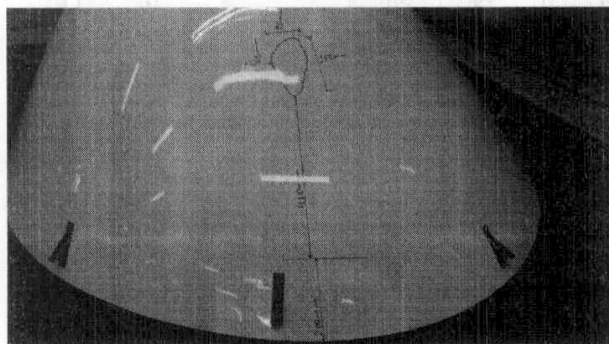
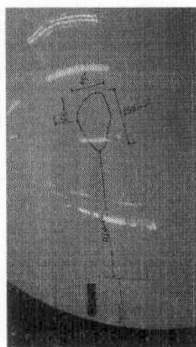
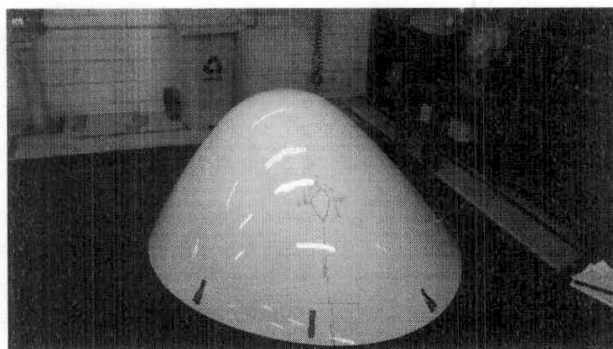
Date: Nov. 02, 2017

Date: Nov. 07, 2017

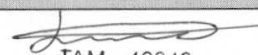
Date: _____

6. PHOTOS/IMAGES/SKETCHES:

(If necessary, use the annex for pictures or sketches. Add additional pages as required. Write down the total amount of pages):

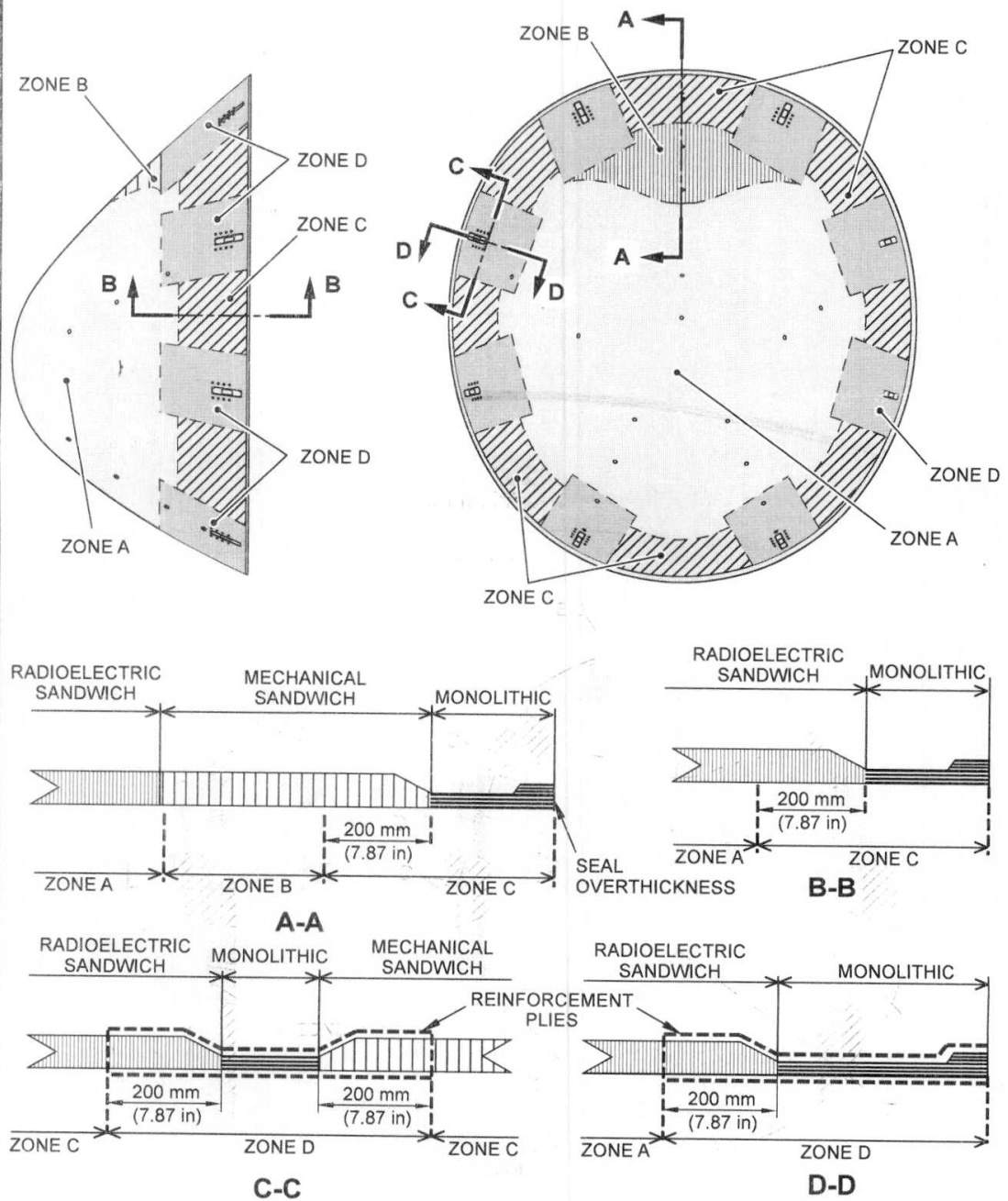


Performed by


TAM - 46846
LEANDRO
184815Date: OCT. 31, 2017

AIRBUS

Component Maintenance Publication



ICN-RADOME-A-531011-A-F6198-00517-A-002-01

Figure 1 Radome - Zones A, B, C and D

53-10-11

Special repair procedure
Page 7

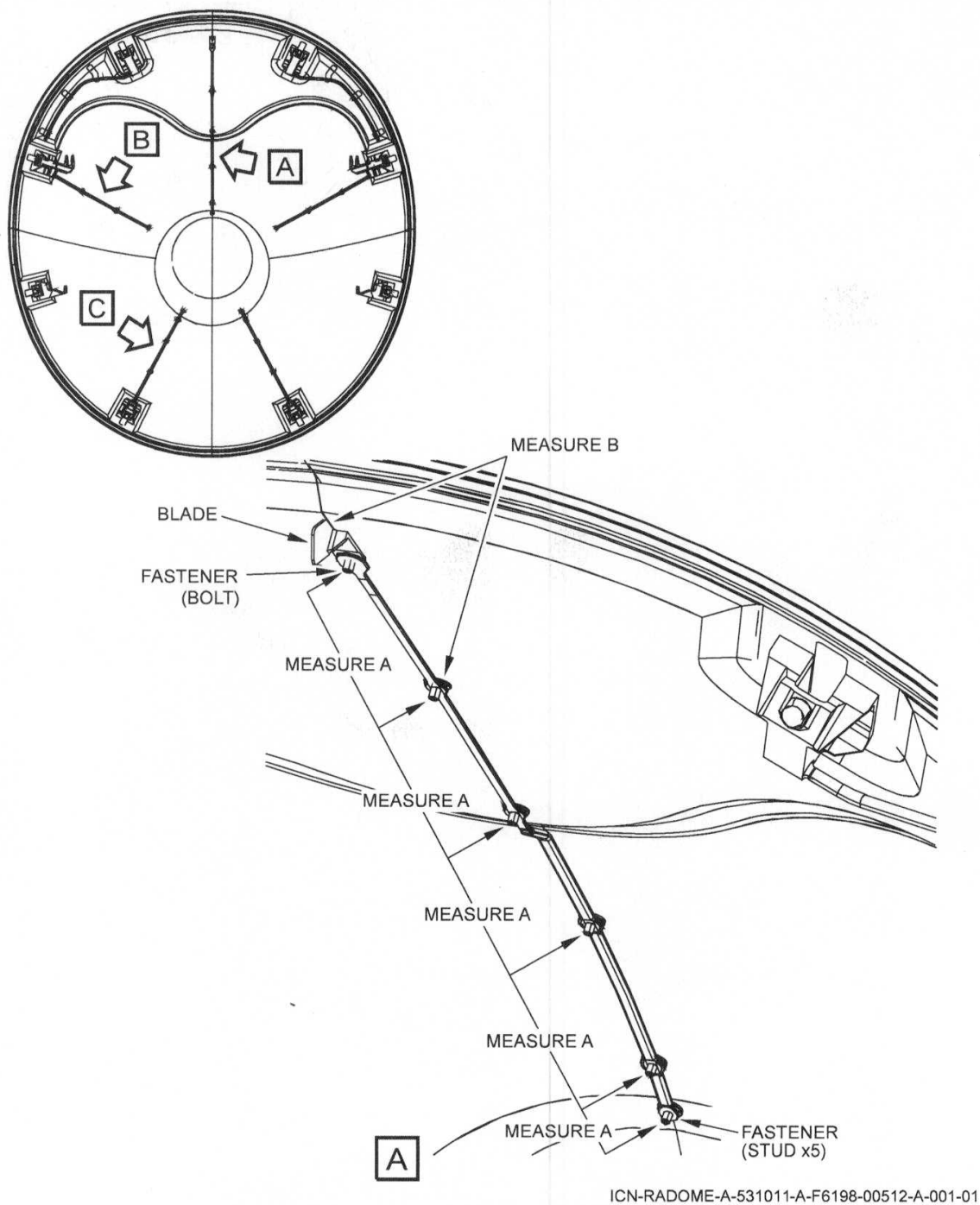
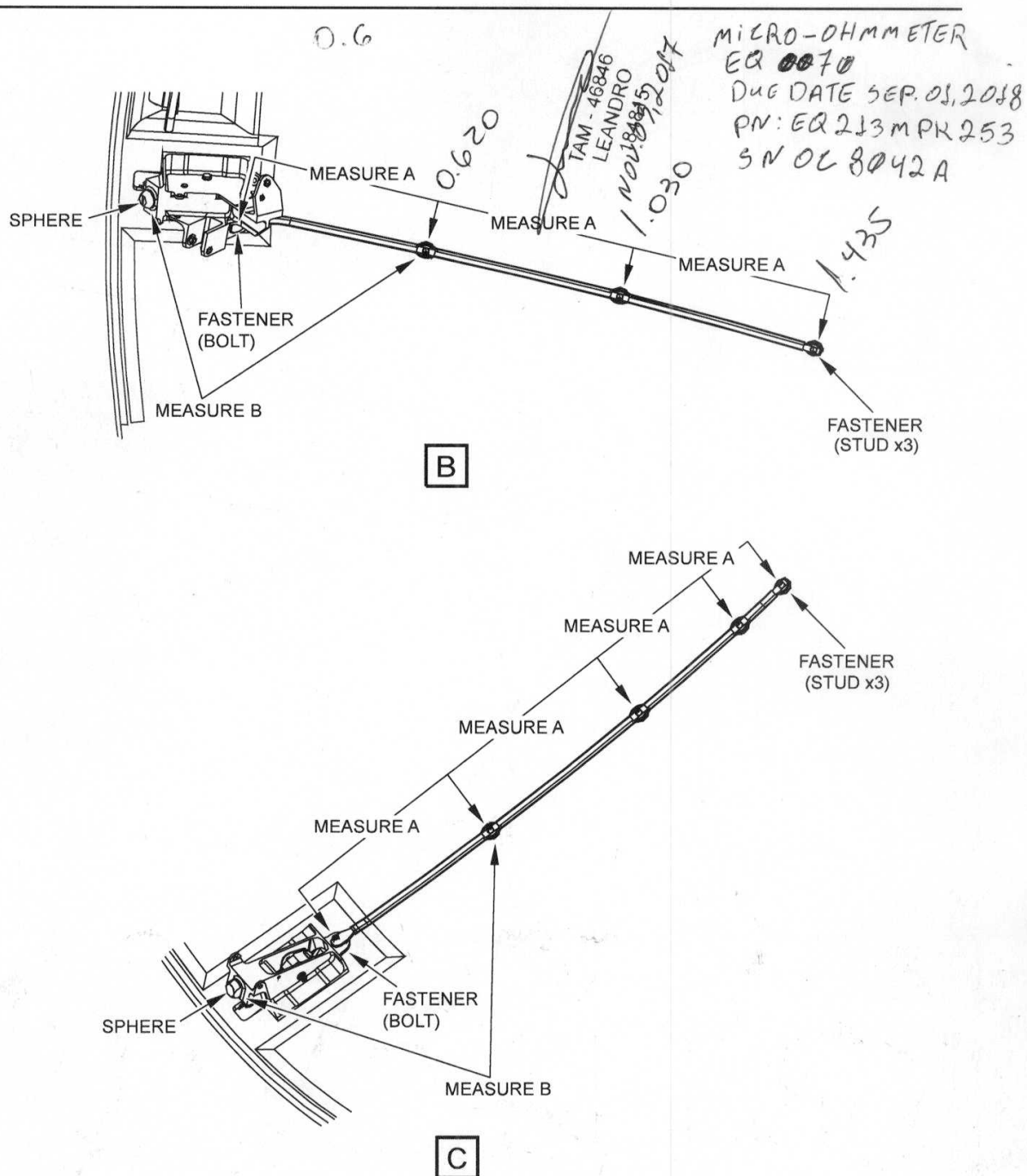


Figure 1 Radome - Electrical Bonding Check (Sheet 1 of 2)



ICN-RADOME-A-531011-A-F6198-00532-A-001-01

Figure 1 Radome - Electrical Bonding Check (Sheet 2 of 2)

End of Data Module: RADOME-A-53-10-11-03001-300B-C