

AERONEF - AIRCRAFT

1. Marques de nationalité
et d'immatriculation :

N850FP

1. *Nationality and
Registration Marks* :

2. Classification | Catégorie : **See Airworthiness Certificate**
Catégorie :

2. *Classification* | Annotations - Mentions d'emploi : **None**
Subdivision :

3. Type de l'aéronef : **SOCATA - TBM 700**
3. *Aircraft type* :

N° de série : **664**
Serial No :

4. Construction par : **SOCATA**
4. *Maker, place and date of construction* :

le **16 JUIL. 2013**
on

à **TARBES**
at

Livret établi à **TARBES : 20 Juin 2013**

Log Book established at - on

(Place and Date)

SOCATA **DAHER-SOCATA**
DIRECTION QUALITÉ
QUALITY DIRECTOR

Signature et Cachet
Stamp and Signature



Date de la dernière visite portée sur le livret n°.....1..... précédent (avec indication de la situation V ou R de l'aéronef)

Date of the last inspection / overhaul, brought forward from preceding Log Book No. (details to be given concerning the state of airworthiness of the aircraft)

Dates et références de classification et de dernière révision générale (1)

Dates and particulars of Certificate of airworthiness renewals and of last major overhaul (2)

Rappel à cette date des heures de vol : 20/07/2013
Record to date of flying times :

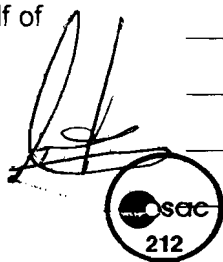
Depuis mise en service4^e 25.....
Since manufacture

Depuis entretien majeur
Since last major maintenance :

Essai en vol le : 10 juillet 2013

U.S Standard Airworthiness Certificate,
issued JUL 16 2013
has been installed in the aircraft on behalf of
FAA (AIR 200) on JUL 16 2013

Frédéric OSTRÉ
French Civil Aviation
Representative Inspector



(1) Ces indications doivent être intégralement reproduites sur tous les livrets de rechange.
(2) These entries must be reproduced in their entirety in each and every subsequent Log Book.

Détails vérifications et travaux entretien - Révisions partielles ou générales

Modifications - Essais en vol

Particulars of inspections and maintenance - Minor or major overhauls

Modifications - Test flights

Cachet - Signature réparateur

Approbation pour remise en service

Stamp and signature of overhauler

Maintenance release

The logo for DAHER-SOCATA, featuring a stylized 'D' and 'S' followed by the company name in bold capital letters.**SOCATA**

I certify that the altimeters and static system tests required by 14CFR § 91.411 and transponders tests, including data correspondence, required by § 91.413, have been performed and found to comply with 14 CFR part 43, appendix E and F.

Air data computer N°1 - GDC 74B / 011-01110-01 S/N : 15W005897

Air data computer N°2 - GDC 74B / 011-01110-01 S/N : 15W005905

Transponder N°1 - GTX 33 / 011-0779-10 S/N : 89124016

Transponder N°2 - GTX 33 / 011-0779-10 S/N : 89124100

Standby Altimeter - ESI 2000 / 9200-32500-0021 S/N : 1694

The altimeters were tested to 35000 feet on : 31-May-2013

The transponders were tested on : 6-Jun-2013

Static system leak test on : 31-May-2013

S/N 664**VISA :**

SERVICE DE L'AÉRONEF - AIRCRAFT RECORD

2

Détails vérifications et travaux entretien - Révisions partielles ou générales

Modifications - Essais en vol

Particulars of inspections and maintenance - Minor or major overhauls

Modifications - Test flights

Cachet - Signature réparateur

Approbation pour remise en service

Stamp and signature of overhauler

Maintenance release

SOCATA

SOCATA

Document de rattachement : MOE
Référence : F0157 Ind A

Page 1/1

1. Approving Competent Authority / Country Autorité compétente / Pays DIRECTION GÉNÉRALE DE L'AVIATION CIVILE France		2. Aircraft Certificate of Release to Service Certificat d'approbation pour remise en service aéronef		3. Form Tracking Number N° de repère du Formulaire RTN*287-2013	
4. Approved Organisation Name and Address / Nom et adresse de l'Organisation Appréc SOCATA sas Aéroport Tarbes Lourdes Pyrénées 65291 TARBES CEDEX 9		5. Work Order / Contract / Invoice Bon de commande / Contrat / Facture RTN*287-2013			
6. Model Type TBM	7. Registration Immatri-culation N850FP	8. AC Serial Number Numéro de Série 664	9. Engine Serial Number N° série des Moteurs SN 1 : RV0327 SN 2 : SN 3 : SN 4 :	10. APU Serial Number N° série du Groupe auxiliaire SN :	11. Operator Exploitant Transatlantique deliveries trust
12. Status - Work performed / Etat - Travaux effectués Pilot door seal adjustment					
Flight test : 1 flight / 1 H 00 / 1 land Works reported : yes-no / Travaux différés : oui-non					
13. Remarks / Remarques					
14. Approved Maintenance Program / Programme d'Entretien Approuvé Z00 DMMMPXEEORS Issue / Edition 0 9		15. Work pack Reference / Ref. du dossier de Vols RTN*287-2013		16. Date of performance / Date des travaux Beginning / Début 17/07/2013	End / Fin 18/07/2013
17. Aircraft Flying Heures de vols 6H40		18. Aircraft Cycles 6			
19. Part 145 A.50 Release to service / Approbation pour remise en service selon la partie 145 A.50 Certifier that the aircraft complies with the requirements of Part 145 and is fit for service. The certificate is valid for the period specified in the release to service. The certificate is valid for the period specified in the release to service. The certificate is valid for the period specified in the release to service. The certificate is valid for the period specified in the release to service.					
20. Authorised Signature / Signature 		21. Certificate Approval Ref. No N° de certificat / d'agrément In* FR 145_081 ☒ In* XSD Y114Y		22. Name / Nom MONLOR D.	
		23. Date (dd/mm/yy) / Date (jj/mm/aa) / heures 18/07/2013 15H00		24. Location / Lieu LBDT	

Formulaire réf : CRS-Partie 145 édition 2

Couderc



U.S. Department of
Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
2/28/2011

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N850FP	Serial No. 664	
	Make Socata	Model TBM	Series N
2. Owner	Name (As shown on registration certificate) T1 LLC	Address (As shown on registration certificate) 5255 N. Edgewood Dr. Ste. 100	
		City Provo State UT	
		Zip 84604 Country USA	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
☐	☒	AIRFRAME	_____	(As described in Item 1 above)	_____
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type _____ Manufacturer _____		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name The New Avex Inc.		☐ U.S. Certificated Mechanic	☐ Manufacturer
Address 205 Durley Ste. A		☐ Foreign Certificated Mechanic	C. Certificate No.
City Camarillo	State CA	☒ Certificated Repair Station	X11R595Y
Zip 93010	Country USA	☐ Certificated Maintenance Organization	

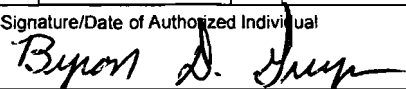
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

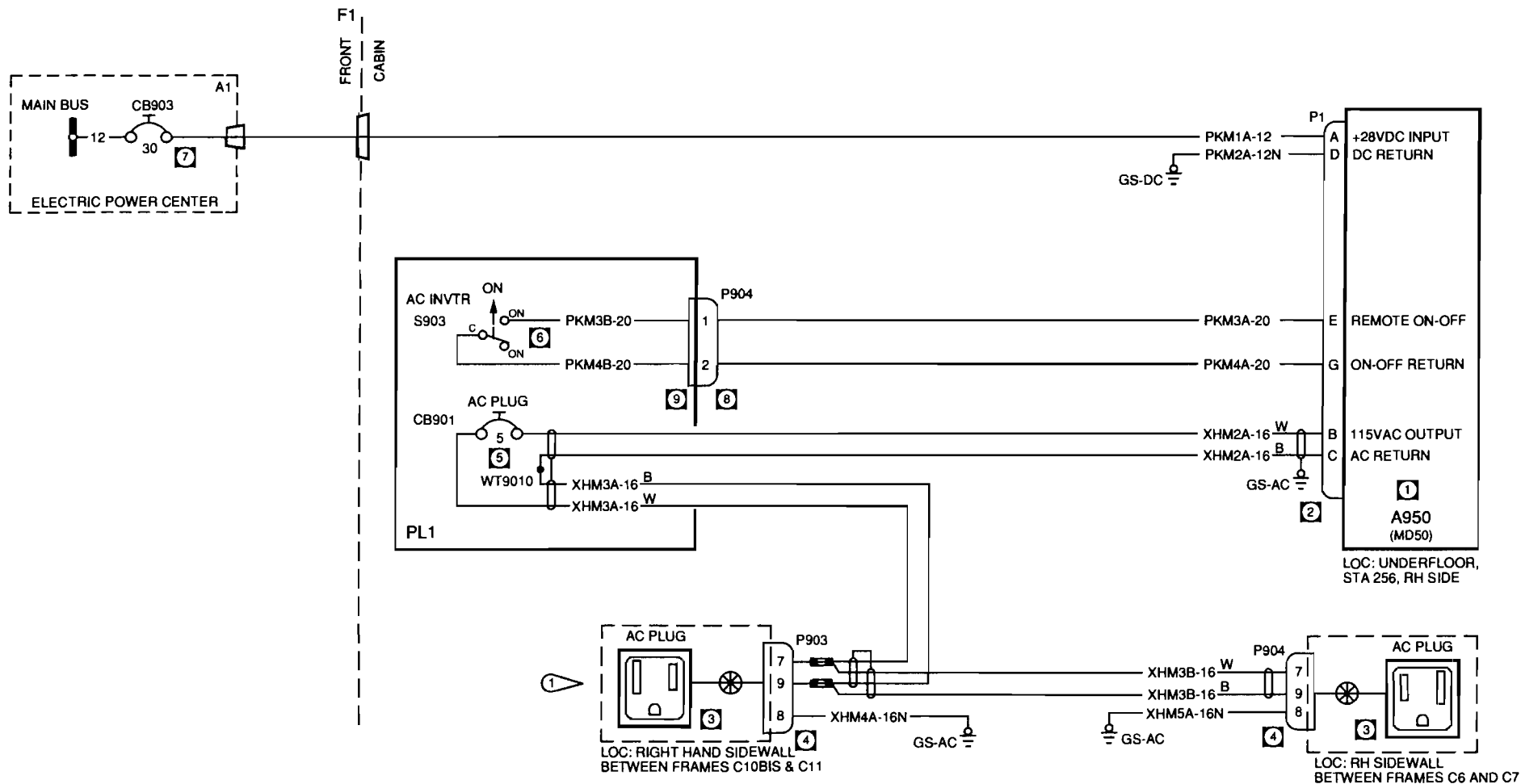
Extended range fuel per 14 CFR Part 43 App. B ☐	Signature/Date of Authorized Individual  08/31/2013
--	--

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☐ APPROVED ☐ REJECTED

BY	☐ FAA Fit Standards Inspector	☐ Manufacturer	☐ Maintenance Organization	☐ Person Approved by Canadian Department of Transport
	☐ FAA Designee	☒ Repair Station	☐ Inspection Authorization	Other (Specify)

Certificate or Designation No. X11R595Y	Signature/Date of Authorized Individual  08/31/2013
---	--



9	1	WM-1220-ND	CONNECTOR, RECEPTICAL, J904	DIGIKEY
	2	WM1000-ND	CONTACT, PINS	DIGIKEY
8	1	WM-1230-ND	CONNECTOR, PLUG, P904	DIGIKEY
	2	WM-1001-ND	CONTACT, SOCKETS	DIGIKEY
7	1	7271-2-30	CIRCUIT BREAKER, 30 AMP, CB903	KLIXON
6	1	1571920-3	SWITCH, 1 AMP RATING, S903	ALCO
5	1	7277-2-5	CIRCUIT BREAKER, 5 AMP, CB901	KLIXON
4	2	206708-1	PLUG, P903, P904	AMP
	2	206966-1	CLAMP	AMP
	6	66101-1	SOCKETS	AMP
3	2	106077-1	AC OUTLET ASSEMBLY, W/LID	MID CONTINENT
2	1	MS3106E18-9S	CONNECTOR, P1	VARIOUS
1	1	MS66	28VDC TO 115VAC, 60HZ INVERTER	MID CONTINENT
ITEM	QTY	NUMBER	DESCRIPTION	VENDOR

NOTES:

- 4.2 AMPS MAXIMUM LOAD FOR BOTH AC PLUGS COMBINED.
- ALL WIRE EITHER MIL-W-22759 OR MIL-W-22500.
- PART OF MIDCONTENT CONNECTOR KIT, P/N 856007.

 SIERRA sierra.av@earthlink.net	SYSTEM 24-90-01	REV NEW	EFFECTIVITY N850FP S/N: 664	TITLE 60HZ CABIN POWER	
	ALL INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY AND NOT BE LOANED, REPRODUCED, COPIED, OR DISCLOSED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SIERRA AVIONICS.	DATE: 9-23-13 DWG NO: 20-664-13904-11	APRVD: AME		
		FILE NAME: 20-664-13904-11			

C.R.S. X1IR595Y

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A10506

Date: 8/31/2013

Hobbs: 53.2

TTSN:

TLSN:

Installed inverter P/N MD50, S/N D13-10722 I.A.W DR 8110-3 instructions. Op checks good. FAA form 337 filed this date with the FAA Oklahoma Aircraft Registry. A copy of FAA form 337 provided with the airframe logbook.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A10506.

Bryan L. J. 8/31/13
Date

(LBID:9811)

For: FAA Approved Repair Station # X1IR595Y

The New AVEX, Inc.

C.R.S. X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 10488

Date: 9/3/2013

Hobbs: 53.2

TTSN:

TLSN:

1. Installed a thermal acoustic insulation package I.A.W. DER 8110-3 data package N2201 Revision A Master Data List Socata TBMN Noise Reduction System, dated 12/18/2012, D10052 Revision -, Structural Substantiation Report for N22012102-501 Installation, dated 08/18/2012, and D10051 Revision A, N20021300-501 Weight and Balance Supplement, dated 12/18/2012. FAA form 337 filed this date with the FAA. A copy of FAA form 337 provided with the airframe logbook.
2. Performed VMO overshoots inspection for the following VMO exceedance recorded on the G-1000 VMO 279 Kts for 15 seconds, dated 26 July 2013 I.A.W. Socata MM Chapter 05-50-03. No defects noted at this time.
3. Performed weigh and balance I.A.W. Socata MM Chapter 08. Up dated weigh and balance placed in aircraft POH.
4. Adjusted pilot door seal and seal retainer I.A.W. Socata MM Chapter 52. Op and leak checks good.
5. Adjusted passenger door seal and seal retainer and performed cabin leak rate test I.A.W. Socata MM Chapters 21 and 52. Op and leak checks good.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 10488.

Byron D. Guy 9/3/13
Date

(LBID:9815)

For: FAA Approved Repair Station # X1IR595Y

 U.S. Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 2/28/2011		Electronic Tracking Number	
		For FAA Use Only					
INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))							
1. Aircraft		Nationality and Registration Mark			Serial No.		
		N850FP			664		
2. Owner		Make			Model		Series
		Socata			TBM		N
3. For FAA Use Only		Name (As shown on registration certificate)			Address (As shown on registration certificate)		
		T1 LLC			5255 N. Edgewood Dr. Ste. 100		
					City		State
					Provo		UT
		Zip			Country		
		84604			USA		
4. Type							
Repair		Alteration		Unit		Make	
☐		☒		AIRFRAME		(As described in Item 1 above)	
☐		☐		POWERPLANT			
☐		☐		PROPELLER			
☐		☐		APPLIANCE		Type	
						Manufacturer	
5. Unit Identification							
Serial Number							
6. Conformity Statement							
A. Agency's Name and Address				B. Kind of Agency			
Name <u>The New Avex Inc.</u> Address <u>205 Durley Ste. A</u> City <u>Camarillo</u> State <u>CA</u> Zip <u>93010</u> Country <u>USA</u>				☐ U.S. Certificated Mechanic		☐ Manufacturer	
				☐ Foreign Certificated Mechanic		C. Certificate No.	
				☒ Certificated Repair Station		X11R595Y	
				☐ Certificated Maintenance Organization			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.							
Extended range fuel per 14 CFR Part 43 App. B ☐				Signature/Date of Authorized Individual 03 SEPT 2013			
7. Approval for Return to Service							
Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☐ APPROVED ☐ REJECTED							
BY	☐ FAA Fit Standards Inspector	☐ Manufacturer	☐ Maintenance Organization		☐ Person Approved by Canadian Department of Transport		
	☐ FAA Designee	☒ Repair Station	☐ Inspection Authorization		Other (Specify)		
Certificate or Designation No.				Signature/Date of Authorized Individual			
X11R595Y				09/03/2013			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N850FP

08/31/2013

Nationality and Registration Mark

Date

The following describes the installation of a sound proofing insulation package per DER 8110-3 data, signed by Edwards Kats DERT-605279-NM dated 12/18/2012. All installed materials are to meet requirements of FAR 23.860, FAR 25.856(a), and Appendix F to part 25. Aircraft weigh and balance information to be updated.

Instructions for Continued Airworthiness:

1. Introduction: Reference the above paragraph.
2. Description: Reference the above paragraph.
3. Control and Operation: Not Applicable.
4. Servicing: Not Applicable.
5. Maintenance: Not Applicable.
6. Troubleshooting: Not Applicable.
7. Removal / Installation: Replace with same or like equipment.
8. Diagrams: N2201 Revision A Master Data List Socata TBMN Noise Reduction System, dated 12/18/2012, D10052 Revision -, Structural Substantiation Report for N22012102-501 Installation, dated 12/18/2012, N20021300-501 Weight and Balance Supplement, dated 12/18/2012.
9. Special Inspection Requirements: Annual inspection for security and integrity.
10. Protective treatments: Not Applicable.
11. Data: N2201 Revision A Master Data List Socata TBMN Noise Reduction System, dated 12/18/2012, D10052 Revision -, Structural Substantiation Report for N22012102-501 Installation, dated 12/18/2012, N20021300-501 Weight and Balance Supplement, dated 12/18/2012.
12. Special Tools: Not Applicable.
13. Commuter Category: Not Applicable.
14. Recommended Overhaul: Not Applicable.
15. Airworthiness Limitations: Not Applicable.
16. Revisions This Document may be revised by submitting a letter to the local FSDO along with a copy of the revised 337.

*****End Report*****

☐ Additional Sheets Are Attached

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS			1. DATE August 12, 2013
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION			
2. MAKE SOCATA	3. MODEL NO. TBM 700	4. TYPE (<i>Airplane, Radio, Helicopter, etc.</i>) Airplane	5. NAME OF APPLICANT Avex, Inc
LIST OF DATA			
6. IDENTIFICATION N ^o Aero Documents N2201, Revision B, Dated 12/18/2012 D10052, Revision A, Dated 12/18/2012 D10051, Revision B, Dated 12/18/2012 -----end-----	7. TITLE Master Data List SOCATA TBM Noise Reduction System Structural Substantiation Report for N22012102-501 Installation Weight and Balance Supplement for N22012102-501 Installation NOTES: 1. This approval is for the engineering design data only. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements". This form does not constitute FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration. 2. This approval issued in support of alteration and is applicable to SOCATA TBM-700 aircraft, serial number 664, N850FP only 3. This approval covers structural design and analysis aspects only 4. This approval covers engineering data only and is not an installation approval End-----end-----end-----end		
8. PURPOSE OF DATA To show compliance with applicable Federal Airworthiness Regulations for the alteration performed on SOCATA TBM-700 aircraft, serial number 664, N850FP only, via FAA Form 337			
9. APPLICABLE REQUIREMENTS (<i>List specific sections</i>) 14 CFR Part 23 §§ 23.23(b), Amdt 23-0; 23.29(b), Amdt 23-21; 23.301, Amdt 23-28; 23.303, Amdt 23-0; 23.365(e), Amdt 23-0; 23.561(a)(b)(d), Amdt 23-44; 23.601, Amdt 23-0; 23.603, Amdt 23-23; 23.605, Amdt 23-23; 23.609, Amdt 23-0; 23.611, Amdt 23-0; 23.613, Amdt 23-23			
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and attached sheets numbered none have been examined in accordance with established procedures and found to comply with applicable requirements of the <u>Airworthiness Standards</u> listed. I (We) Therefore ☐ ☒ Recommend approval of these data Approve these data			
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S) Edward Kats <i>Edward Kats</i>	12. DESIGNATION NUMBER(S) DERT-605279-NM	13. CLASSIFICATION (S) Structures	



Master Data List Socata TBM Noise Reduction System

No.	Revision	Date
N2201	B	2012-12-18

Refer to ECO-9229 for revision history

PROPRIETARY, CONFIDENTIAL, AND/OR TRADE SECRET INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

**N²Aero****Master Data List Socata TBM Noise
Reduction System**No. **N2201**Revision **B**Sheet No. **2 of 2**

DWG/DOC NO.	REV	DATE	TITLE
N22011102	A	2012-09-17	Installation, Socata TBM Fuselage Noise Reduction System
N22012102	A	2012-12-05	Insulation Blankets N2201 Model Series
N01011	B	2012-08-27	Insulation Blanket Assembly, Basic Shapes, Variable
N01012001	-	2011-03-18	Blanket, Acoustic, .38" Thk
N01012008	-	2011-03-18	Blanket, Acoustic, 1.88" Thk
N01012013	-	2012-08-27	Blanket, Acoustic, 2.38" Thickness
N01012014	-	2012-08-27	Blanket, Acoustic, 0.63" Thickness
N01014001	-	2011-03-18	Tape, Insulation Sealing
N01014003	-	2011-03-18	Tape, Double Sided, Film Substrate, Silicone/Acrylic Adhesive
N01014005	-	2011-03-18	Tape, Double-Sided, Woven Substrate, Acrylic/Acrylic Adhesive
N01015001	-	2011-03-18	Batting, Fiberglass, AA WRP, 0.60 PCF
N01015002	-	2011-03-18	Batting, Fiberglass, AA WRP, 1.60 PCF
N01015003	-	2011-03-18	Batting, Fiberglass, AA WRP, 3.50 PCF
N01015004	-	2011-03-18	Batting, Fiberglass, AA WRP, 0.42 PCF
N01015101	-	2011-03-18	Film, Reinforced, Thermal Adhesive
N01015202	-	2011-03-18	Foam, PVC/NBR/CR
N01015210	-	2012-02-22	Composite Acoustic Seal
N01015211	-	2012-08-27	Acoustic Seal, Felt
N01015212	-	2012-08-27	Felt, PFR Rayon, Aluminized
N01015301	-	2011-03-18	Acoustic Barrier, Cast Unreinforced
N02020001	-	2011-03-18	Insulation Blanket Assembly
D10051	B	2012-12-18	Weight and Balance Analysis N22012102-501 Cabin Interior Noise Reduction System
D10052	A	2012-12-18	Structural Substantiation N22012102-501 Cabin Interior Noise Reduction System

PROPRIETARY, CONFIDENTIAL, AND/OR TRADE SECRET INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

FLAMMABILITY DATA SHEET

MATERIAL: Muffler body (N01010001 / N01010004)
TEST SAMPLE P/N: SK1040 (Lot 11518626) (flame parallel to windings)
APPLICATION: Various
REPORT NO.: None
CUSTOMER: N2 Development
CERTIFICATION: N/A
OTHER : Arrowhead products

TEST LOCATION:
 FAA Accepted Facility

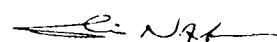
TESTCORP

MISSION VIEJO, CALIFORNIA
 (949) 859-3569

CONDITIONING BEGAN:
 09/25/2011

TEST DATE:
 09/26/2011

TESTED BY:
 James Nauman



FLAME TEMP. (Deg. F)
 1575

TEST METHOD

TEST REQUIREMENTS

IGNITION TIME – MATERIAL POSITION		EXTINGUISHING TIME	BURN LENGTH	DRIIP EXTINGUISHING	BURN RATE	FLAME PENETRATION	AFTER GLOW
–	F1. 60 SECOND – VERTICAL	15 SECONDS	6 INCHES	3 SECONDS			
XX	F2. 12 SECOND – VERTICAL	15 SECONDS	8 INCHES	5 SECONDS			
–	F3. 15 SECOND - HORIZONTAL				2.5 IN./MIN.		
–	F4. 15 SECOND - HORIZONTAL				4.0 IN./MIN.		
–	F5. 30 SECOND – 45 Degree	15 SECONDS				NONE	10 SECONDS
–	F6. 30 SECOND – 60 Degree	30 SECONDS	3 INCHES	3 SECONDS			

TEST VALUES

COMMENTS

SKETCH / DESCRIPTION

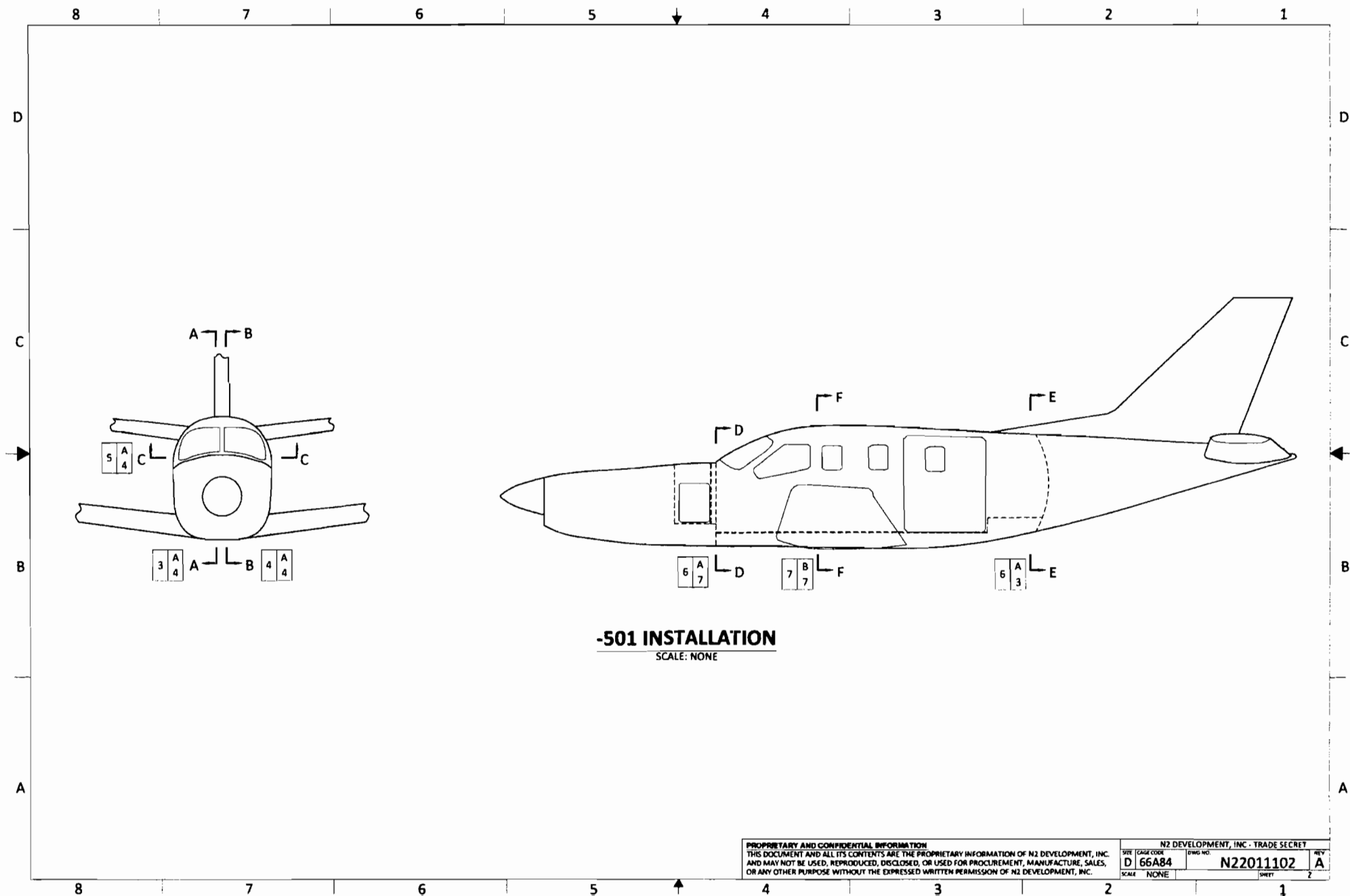
SAMPLE NO.	EXT. TME (SEC)	BURN LENGTH (INCHES)	DRIIP EXT. TIME (SEC)	BURN RATE (IN/MIN)	AFTER GLOW (SEC)	POST TEST COMMENTS:	SKETCH/DESCRIPTION
1	0.0	2.3	0.0	NA	NA	•No drips	None
2	0.0	2.4	0.0	NA	NA	•No drips	
3	0.0	2.3	0.0	NA	NA	•No drips	
AVG.	0.0	2.3	0.0	NA	NA	PASS / FAIL	
						PASS	

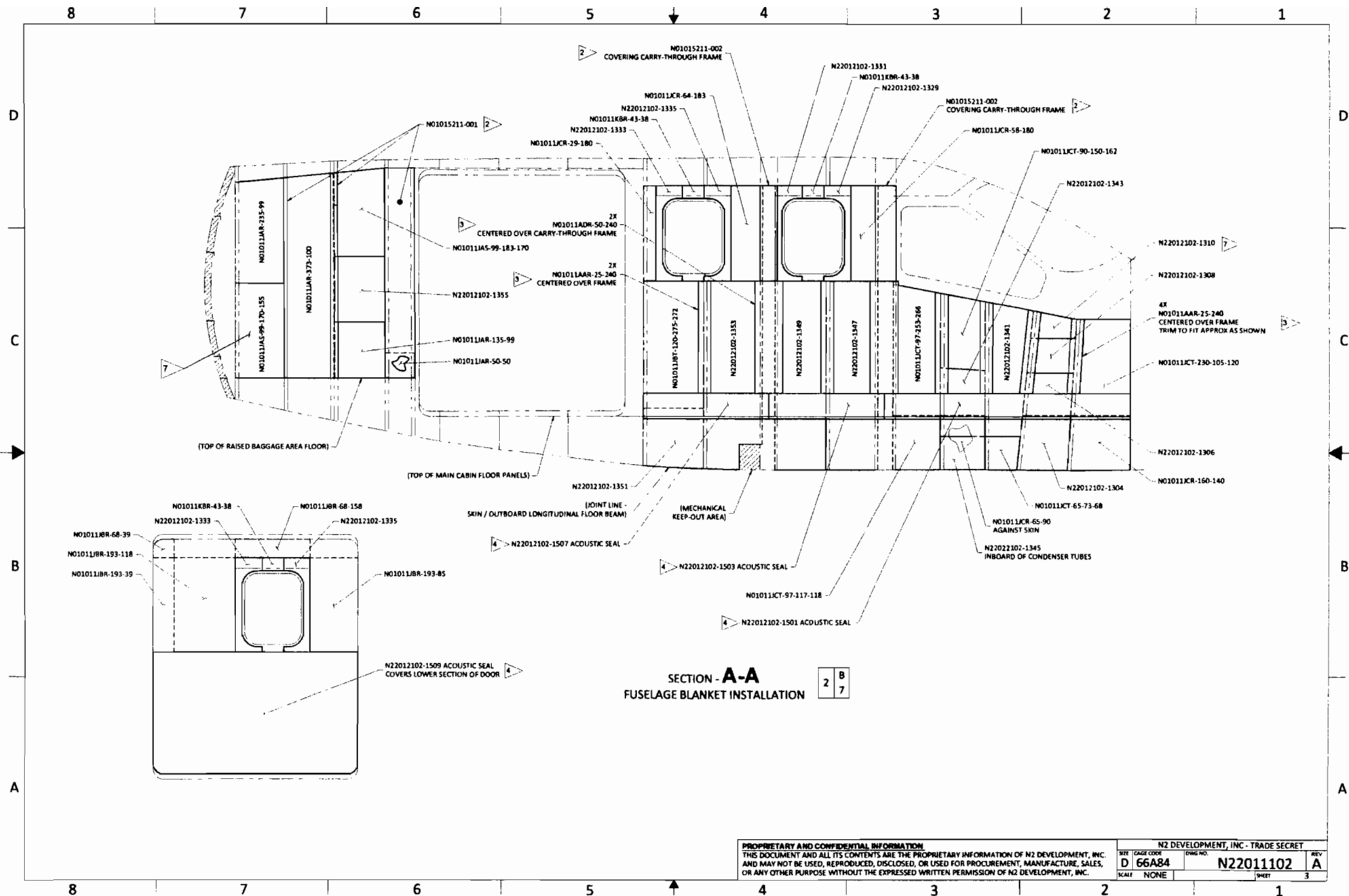
FLAMMABILITY DATA SHEET													
MATERIAL: Muffler body (N01010001 / N01010004) TEST SAMPLE P/N: SK1040 (Lot 11518626) (flame perpendicular to windings) APPLICATION: Various REPORT NO.: None CUSTOMER: N2 Development CERTIFICATION: N/A OTHER : Arrowhead products							TEST LOCATION: FAA Accepted Facility MISSION VIEJO, CALIFORNIA (949) 859-3569						
CONDITIONING BEGAN: 09/25/2011		TEST DATE: 09/26/2011		TESTED BY: James Nauman					FLAME TEMP. (Deg. F) 1575				
TEST METHOD				TEST REQUIREMENTS									
IGNITION TIME – MATERIAL POSITION		EXTINGUISHING TIME		BURN LENGTH		DRIP EXTINGUISHING		BURN RATE		FLAME PENETRATION		AFTER GLOW	
--	F1. 60 SECOND – VERTICAL	15 SECONDS		6 INCHES		3 SECONDS							
XX	F2. 12 SECOND – VERTICAL	15 SECONDS		8 INCHES		5 SECONDS							
--	F3. 15 SECOND - HORIZONTAL							2.5 IN./MIN.					
--	F4. 15 SECOND - HORIZONTAL							4.0 IN./MIN.					
--	F5. 30 SECOND – 45 Degree	15 SECONDS								NONE		10 SECONDS	
--	F6. 30 SECOND – 60 Degree	30 SECONDS		3 INCHES		3 SECONDS							
TEST VALUES						COMMENTS		SKETCH / DESCRIPTION					
SAMPLE NO.	EXT. TME (SEC)	BURN LENGTH (INCHES)	DRIP EXT. TIME (SEC)	BURN RATE (IN/MIN)	AFTER GLOW (SEC)	POST TEST COMMENTS:		SKETCH/DESCRIPTION None					
1	0.0	2.1	0.0	NA	NA	•No drips							
2	0.0	2.2	0.0	NA	NA	•No drips							
3	0.0	2.2	0.0	NA	NA	•No drips							
AVG.	0.0	2.2	0.0	NA	NA	PASS / FAIL							
						PASS							

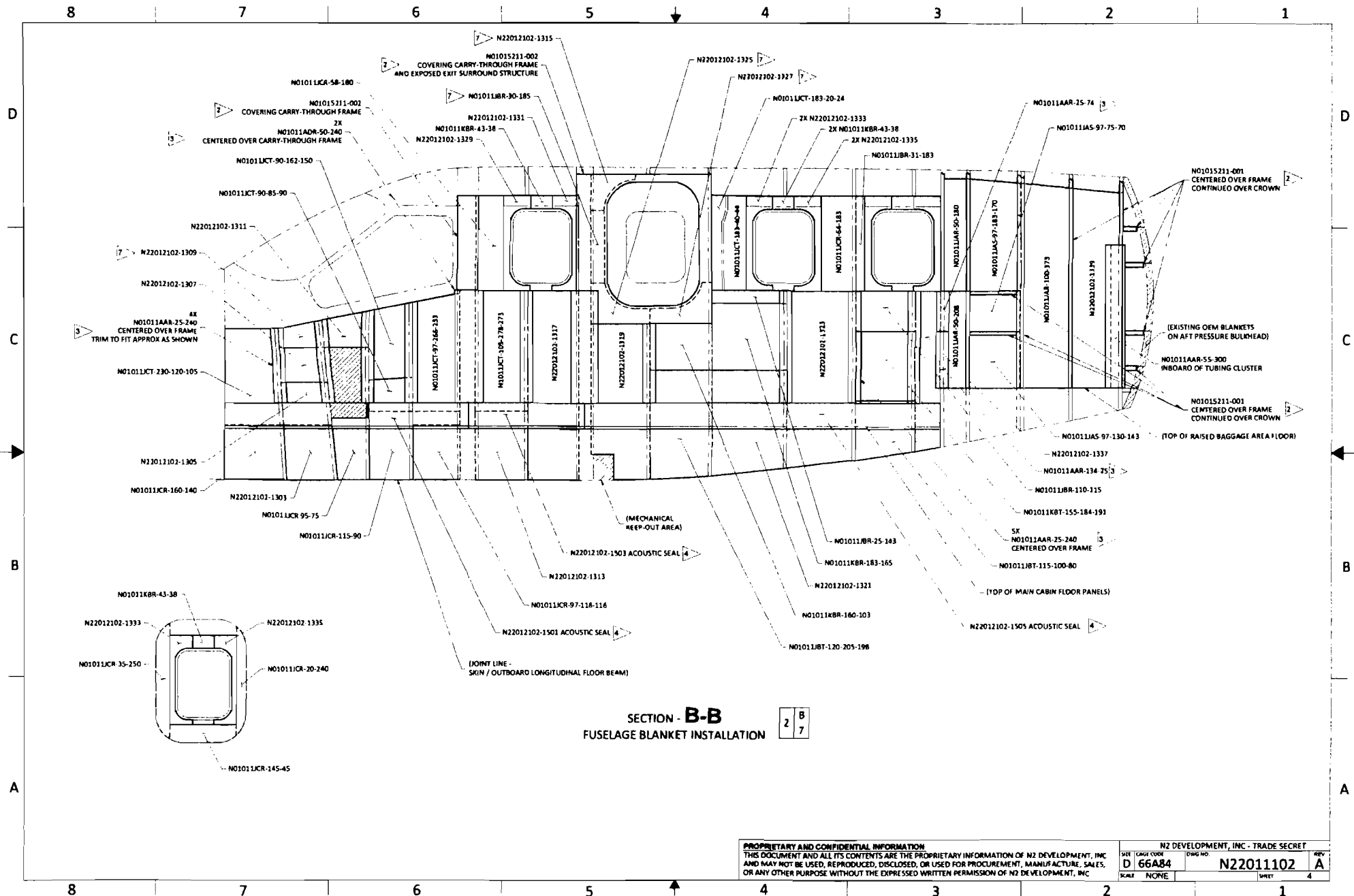
FLAMMABILITY DATA SHEET										
MATERIAL: Duct body (N01010004 / N01010006) TEST SAMPLE P/N: SK1042 (Lot 11517009) (flame parallel to windings) APPLICATION: Various REPORT NO.: None CUSTOMER: N2 Development CERTIFICATION: N/A OTHER : Arrowhead products							TEST LOCATION: FAA Accepted Facility TESTCORP MISSION VIEJO, CALIFORNIA (949) 859-3569			
CONDITIONING BEGAN: 09/25/2011		TEST DATE: 09/26/2011		TESTED BY: James Nauman					FLAME TEMP. (Deg. F) 1575	
TEST METHOD				TEST REQUIREMENTS						
IGNITION TIME – MATERIAL POSITION		EXTINGUISHING TIME		BURN LENGTH	DRIP EXTINGUISHING	BURN RATE	FLAME PENETRATION		AFTER GLOW	
-- F1. 60 SECOND – VERTICAL		15 SECONDS		6 INCHES	3 SECONDS					
XX F2. 12 SECOND – VERTICAL		15 SECONDS		8 INCHES	5 SECONDS					
-- F3. 15 SECOND - HORIZONTAL						2.5 IN./MIN.				
-- F4. 15 SECOND - HORIZONTAL						4.0 IN./MIN.				
-- F5. 30 SECOND – 45 Degree		15 SECONDS					NONE		10 SECONDS	
-- F6. 30 SECOND – 60 Degree		30 SECONDS		3 INCHES	3 SECONDS					
TEST VALUES						COMMENTS		SKETCH / DESCRIPTION		
SAMPLE NO.	EXT. TME (SEC)	BURN LENGTH (INCHES)	DRIP EXT. TIME (SEC)	BURN RATE (IN/MIN)	AFTER GLOW (SEC)	POST TEST COMMENTS:		SKETCH/DESCRIPTION None		
1	1.3	2.8	0.0	NA	NA	•No drips				
2	3.8	2.8	0.0	NA	NA	•No drips				
3	2.9	2.7	0.0	NA	NA	•No drips				
AVG.	2.7	2.8	0.0	NA	NA	PASS / FAIL				
						PASS				

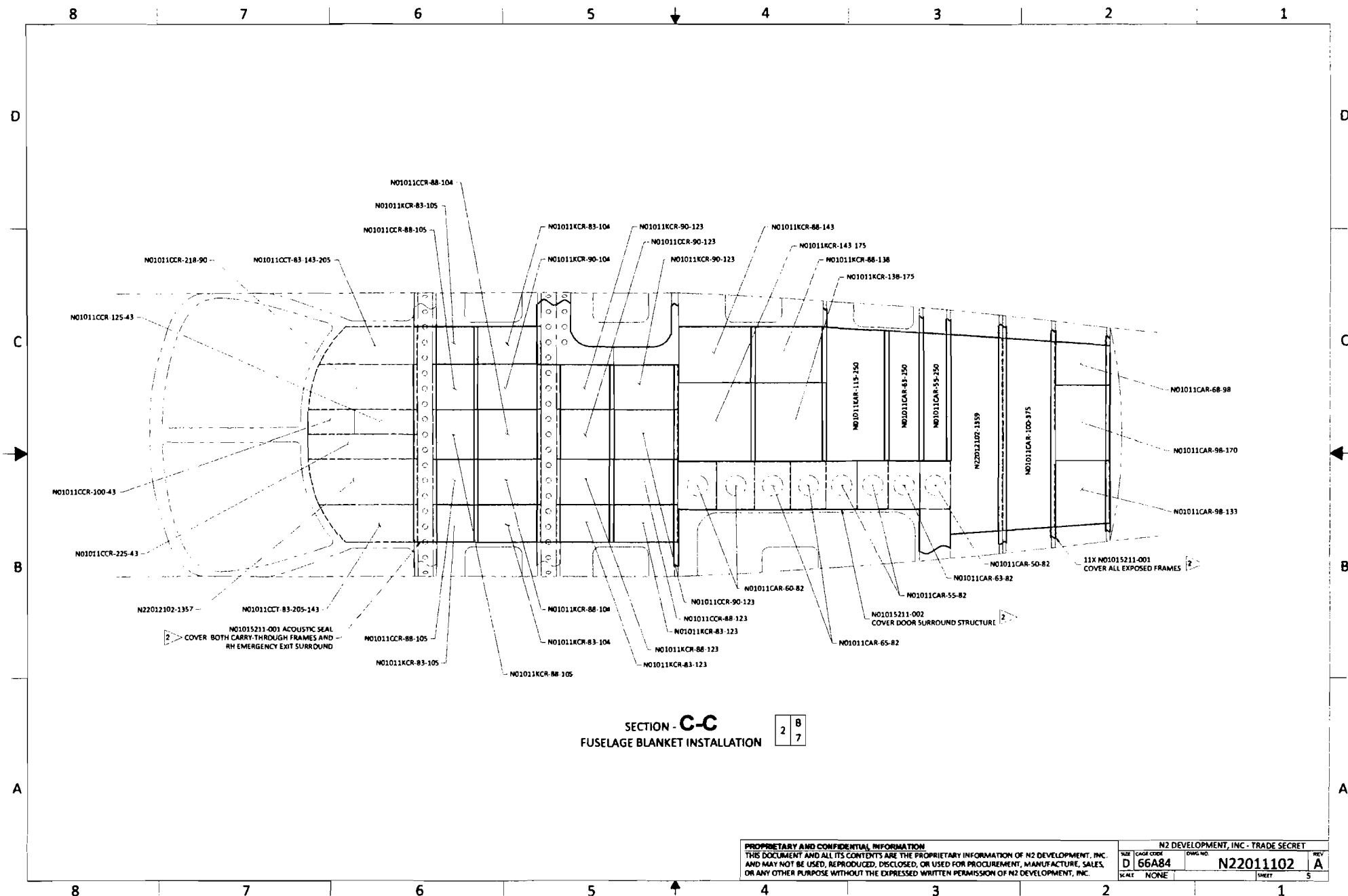
FLAMMABILITY DATA SHEET													
MATERIAL: Duct body (N01010004 / N01010006) TEST SAMPLE P/N: SK1042 (Lot 11517009) (flame perpendicular to windings) APPLICATION: Various REPORT NO.: None CUSTOMER: N2 Development CERTIFICATION: N/A OTHER : Arrowhead products							TEST LOCATION: FAA Accepted Facility MISSION VIEJO, CALIFORNIA (949) 859-3569						
CONDITIONING BEGAN: 09/25/2011		TEST DATE: 09/26/2011		TESTED BY: James Nauman				FLAME TEMP. (Deg. F) 1575					
TEST METHOD				TEST REQUIREMENTS									
IGNITION TIME ~ MATERIAL POSITION		EXTINGUISHING TIME		BURN LENGTH		DRIP EXTINGUISHING		BURN RATE		FLAME PENETRATION		AFTER GLOW	
-- F1. 60 SECOND - VERTICAL		15 SECONDS		6 INCHES		3 SECONDS							
XX F2. 12 SECOND - VERTICAL		15 SECONDS		8 INCHES		5 SECONDS							
-- F3. 15 SECOND - HORIZONTAL								2.5 IN./MIN.					
-- F4. 15 SECOND - HORIZONTAL								4.0 IN./MIN.					
-- F5. 30 SECOND - 45 Degree		15 SECONDS								NONE		10 SECONDS	
-- F6. 30 SECOND - 60 Degree		30 SECONDS		3 INCHES		3 SECONDS							
TEST VALUES						COMMENTS			SKETCH / DESCRIPTION				
SAMPLE NO.	EXT. TME (SEC)	BURN LENGTH (INCHES)	DRIP EXT. TIME (SEC)	BURN RATE (IN/MIN)	AFTER GLOW (SEC)	POST TEST COMMENTS:			SKETCH/DESCRIPTION None				
1	1.8	2.5	0.0	NA	NA	•No drips							
2	5.1	2.6	0.0	NA	NA	•No drips							
3	4.8	2.5	0.0	NA	NA	•No drips							
AVG.	3.9	2.5	0.0	NA	NA	PASS / FAIL							
						PASS							









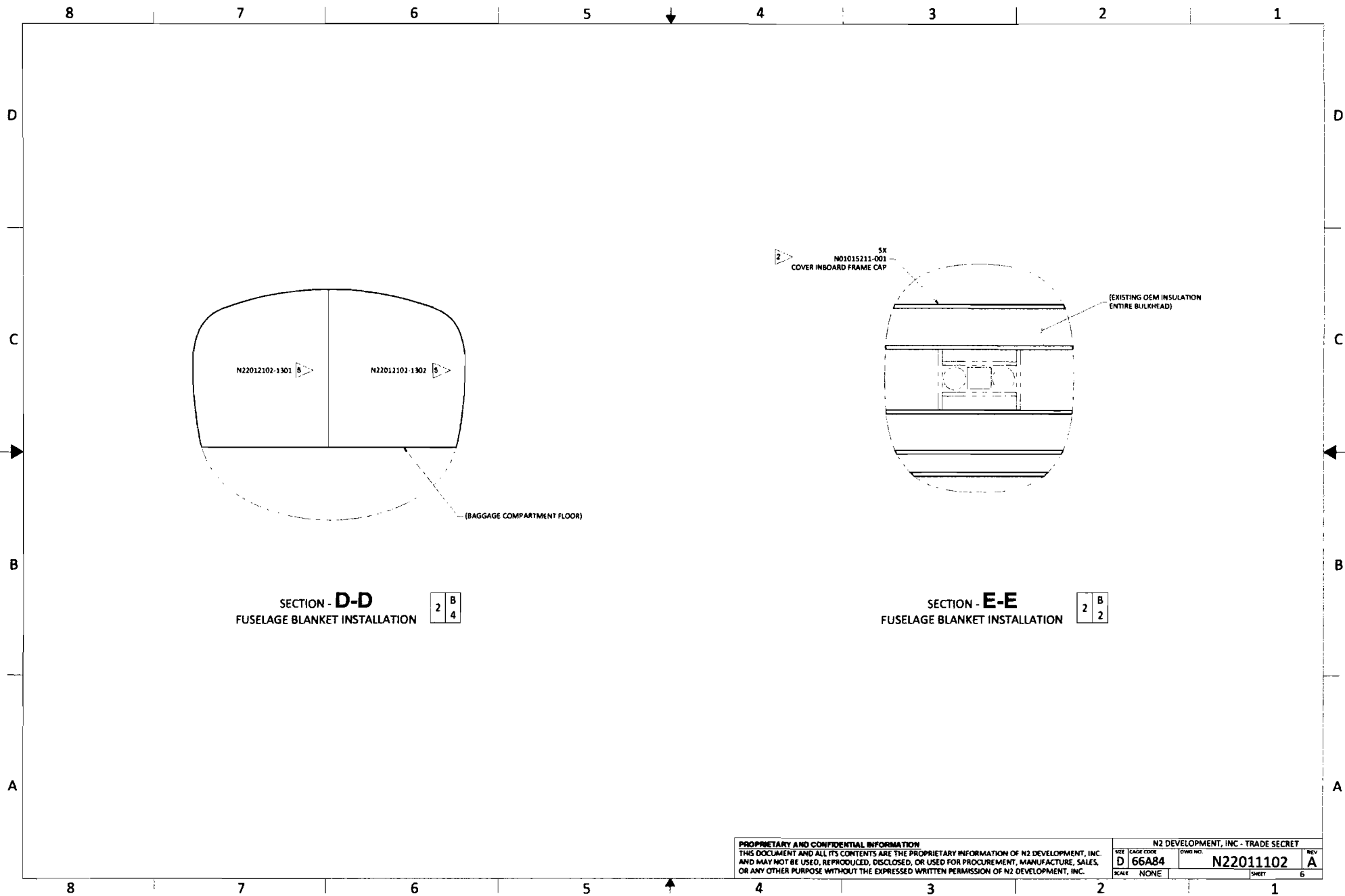


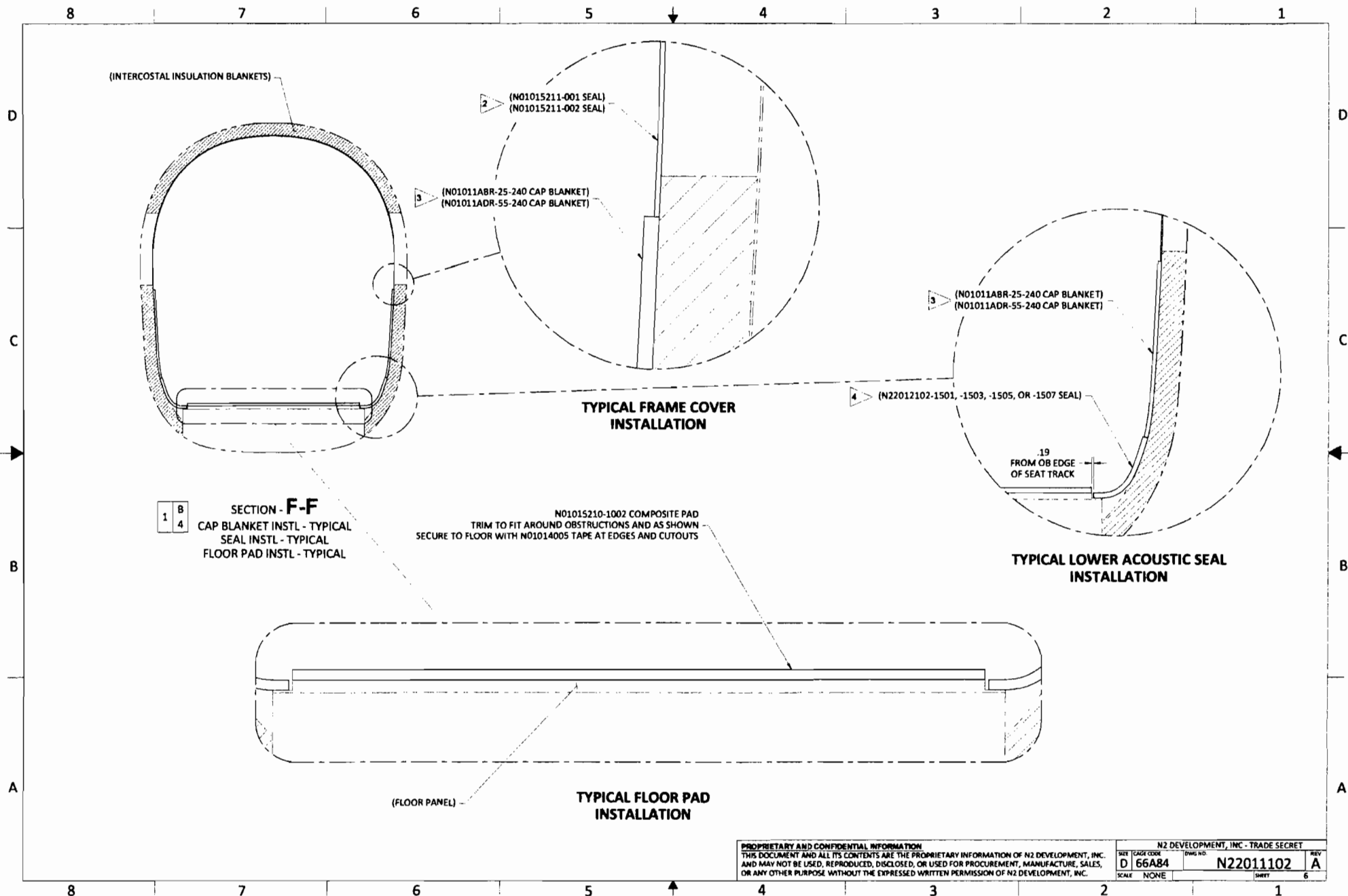
PROPRIETARY AND CONFIDENTIAL INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

N2 DEVELOPMENT, INC - TRADE SECRET

SIZE D	CAGE CODE 66A84	DWG NO. N22011102	REV. A
SCALE NONE	SHEET		5





PROPRIETARY AND CONFIDENTIAL INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

N2 DEVELOPMENT, INC. - TRADE SECRET

REV	DATE	DESCRIPTION	BY
D	66A84	N22011102	A
SCALE	NONE	SHEET	6



			QTY / ASSY
ITEM NO	NOMENCLATURE	MATERIAL DESC/MFR	-501
-501	INSTALLATION		
N01011AAR-134-25	INSULATION BLANKET ASSEMBLY		1
N01011AAR-25-150	INSULATION BLANKET ASSEMBLY		1
N01011AAR-25-208	INSULATION BLANKET ASSEMBLY		1
N01011AAR-25-240	INSULATION BLANKET ASSEMBLY		15
N01011AAR-25-74	INSULATION BLANKET ASSEMBLY		1
N01011AAR-55-300	INSULATION BLANKET ASSEMBLY		1
N01011ADR-50-240	INSULATION BLANKET ASSEMBLY		4
N01011CAR-100-375	INSULATION BLANKET ASSEMBLY		1
N01011CAR-50-82	INSULATION BLANKET ASSEMBLY		1
N01011CAR-55-250	INSULATION BLANKET ASSEMBLY		1
N01011CAR-55-82	INSULATION BLANKET ASSEMBLY		2
N01011CAR-60-82	INSULATION BLANKET ASSEMBLY		2
N01011CAR-63-250	INSULATION BLANKET ASSEMBLY		1
N01011CAR-63-82	INSULATION BLANKET ASSEMBLY		1
N01011CAR-65-82	INSULATION BLANKET ASSEMBLY		2
N01011CAR-68-98	INSULATION BLANKET ASSEMBLY		1
N01011CCR-88-123	INSULATION BLANKET ASSEMBLY		1
N01011CCR-90-123	INSULATION BLANKET ASSEMBLY		2
N01011CAR-98-133	INSULATION BLANKET ASSEMBLY		1
N01011CAR-98-170	INSULATION BLANKET ASSEMBLY		1
N01011CCR-100-43	INSULATION BLANKET ASSEMBLY		1
N01011CCR-125-43	INSULATION BLANKET ASSEMBLY		1
N01011CCR-218-90	INSULATION BLANKET ASSEMBLY		1
N01011CCR-225-43	INSULATION BLANKET ASSEMBLY		1
N01011CCR-88-104	INSULATION BLANKET ASSEMBLY		1
N01011CCR-88-105	INSULATION BLANKET ASSEMBLY		2
N01011CCT-83-143-205	INSULATION BLANKET ASSEMBLY		1
N01011CCT-83-205-143	INSULATION BLANKET ASSEMBLY		1
N01011JAR-100-373	INSULATION BLANKET ASSEMBLY		1
N01011JAR-135-99	INSULATION BLANKET ASSEMBLY		1
N01011JAR-235-99	INSULATION BLANKET ASSEMBLY		1
N01011JAR-373-100	INSULATION BLANKET ASSEMBLY		1
N01011JAR-50-180	INSULATION BLANKET ASSEMBLY		1
N01011JAR-50-208	INSULATION BLANKET ASSEMBLY		1
N01011JAR-50-50	INSULATION BLANKET ASSEMBLY		1



			QTY / ASSY
ITEM NO	NOMENCLATURE	MATERIAL DESC/MFR	-501
N01011JAS-97-75-70	INSULATION BLANKET ASSEMBLY		1
N01011JAS-97-130-143	INSULATION BLANKET ASSEMBLY		1
N01011JAS-97-183-170	INSULATION BLANKET ASSEMBLY		1
N01011JAS-99-170-155	INSULATION BLANKET ASSEMBLY		1
N01011JAS-99-183-170	INSULATION BLANKET ASSEMBLY		1
N01011JBR-110-115	INSULATION BLANKET ASSEMBLY		1
N01011JBR-193-118	INSULATION BLANKET ASSEMBLY		1
N01011JBR-193-39	INSULATION BLANKET ASSEMBLY		1
N01011JBR-193-85	INSULATION BLANKET ASSEMBLY		1
N01011JBR-25-143	INSULATION BLANKET ASSEMBLY		1
N01011JCR-29-180	INSULATION BLANKET ASSEMBLY		1
N01011JBR-30-185	INSULATION BLANKET ASSEMBLY		1
N01011JBR-31-183	INSULATION BLANKET ASSEMBLY		1
N01011JCR-64-183	INSULATION BLANKET ASSEMBLY		2
N01011JBR-68-158	INSULATION BLANKET ASSEMBLY		1
N01011JBR-68-39	INSULATION BLANKET ASSEMBLY		1
N01011JBT-115-100-80	INSULATION BLANKET ASSEMBLY		1
N01011JBT-120-205-198	INSULATION BLANKET ASSEMBLY		1
N01011JBT-120-275-272	INSULATION BLANKET ASSEMBLY		1
N01011JBT-134-100-68	INSULATION BLANKET ASSEMBLY		1
N01011JCT-183-20-24	INSULATION BLANKET ASSEMBLY		1
N01011JCT-183-40-44	INSULATION BLANKET ASSEMBLY		1
N01011JCR-115-90	INSULATION BLANKET ASSEMBLY		1
N01011JCR-145-45	INSULATION BLANKET ASSEMBLY		1
N01011JCR-160-140	INSULATION BLANKET ASSEMBLY		2
N01011JCR-20-240	INSULATION BLANKET ASSEMBLY		1
N01011JCR-35-250	INSULATION BLANKET ASSEMBLY		1
N01011JCR-58-180	INSULATION BLANKET ASSEMBLY		2
N01011JCR-65-90	INSULATION BLANKET ASSEMBLY		1
N01011JCR-95-75	INSULATION BLANKET ASSEMBLY		1
N01011JCT-65-73-68	INSULATION BLANKET ASSEMBLY		1
N01011JCT-90-85-90	INSULATION BLANKET ASSEMBLY		1
N01011JCT-90-150-162	INSULATION BLANKET ASSEMBLY		1
N01011JCT-90-162-150	INSULATION BLANKET ASSEMBLY		1
N01011JCT-97-117-118	INSULATION BLANKET ASSEMBLY		1
N01011JCT-97-118-116	INSULATION BLANKET ASSEMBLY		1
N01011JCT-97-253-266	INSULATION BLANKET ASSEMBLY		1
N01011JCT-97-266-253	INSULATION BLANKET ASSEMBLY		1
N01011JCT-105-278-273	INSULATION BLANKET ASSEMBLY		1



Parts List No. N22011102-PL
Revision "A" Dated 2012-09-17

Page 3 of 4

			QTY / ASSY
ITEM NO	NOMENCLATURE	MATERIAL DESC/MFR	-501
N01011JCT-230-105-120	INSULATION BLANKET ASSEMBLY		1
N01011JCT-230-120-105	INSULATION BLANKET ASSEMBLY		1
N01011KAR-115-250	INSULATION BLANKET ASSEMBLY		1
N01011KCR-138-175	INSULATION BLANKET ASSEMBLY		1
N01011KCR-143-175	INSULATION BLANKET ASSEMBLY		1
N01011KCR-83-123	INSULATION BLANKET ASSEMBLY		2
N01011KCR-88-123	INSULATION BLANKET ASSEMBLY		1
N01011KCR-88-138	INSULATION BLANKET ASSEMBLY		1
N01011KCR-88-143	INSULATION BLANKET ASSEMBLY		1
N01011KCR-90-123	INSULATION BLANKET ASSEMBLY		2
N01011KBR-160-103	INSULATION BLANKET ASSEMBLY		1
N01011KBR-183-165	INSULATION BLANKET ASSEMBLY		1
N01011KBR-43-38	INSULATION BLANKET ASSEMBLY		7
N01011KBT-155-184-191	INSULATION BLANKET ASSEMBLY		1
N01011KCR-83-104	INSULATION BLANKET ASSEMBLY		2
N01011KCR-83-105	INSULATION BLANKET ASSEMBLY		2
N01011KCR-88-104	INSULATION BLANKET ASSEMBLY		1
N01011KCR-88-105	INSULATION BLANKET ASSEMBLY		1
N01011KCR-90-104	INSULATION BLANKET ASSEMBLY		1
N22012102-1301	INSULATION BLANKET ASSEMBLY		1
N22012102-1302	INSULATION BLANKET ASSEMBLY		1
N22012102-1303	INSULATION BLANKET ASSEMBLY		1
N22012102-1304	INSULATION BLANKET ASSEMBLY		1
N22012102-1305	INSULATION BLANKET ASSEMBLY		1
N22012102-1306	INSULATION BLANKET ASSEMBLY		1
N22012102-1307	INSULATION BLANKET ASSEMBLY		1
N22012102-1308	INSULATION BLANKET ASSEMBLY		1
N22012102-1309	INSULATION BLANKET ASSEMBLY		1
N22012102-1310	INSULATION BLANKET ASSEMBLY		1
N22012102-1311	INSULATION BLANKET ASSEMBLY		1
N22012102-1313	INSULATION BLANKET ASSEMBLY		1
N22012102-1315	INSULATION BLANKET ASSEMBLY		1
N22012102-1317	INSULATION BLANKET ASSEMBLY		1
N22012102-1319	INSULATION BLANKET ASSEMBLY		1
N22012102-1321	INSULATION BLANKET ASSEMBLY		1
N22012102-1323	INSULATION BLANKET ASSEMBLY		1
N22012102-1325	INSULATION BLANKET ASSEMBLY		1

N2 AERO TRADE SECRET



			QTY / ASSY
ITEM NO	NOMENCLATURE	MATERIAL DESC/MFR	-501
N22012102-1327	INSULATION BLANKET ASSEMBLY		1
N22012102-1329	INSULATION BLANKET ASSEMBLY		2
N22012102-1331	INSULATION BLANKET ASSEMBLY		2
N22012102-1333	INSULATION BLANKET ASSEMBLY		5
N22012102-1335	INSULATION BLANKET ASSEMBLY		5
N22012102-1337	INSULATION BLANKET ASSEMBLY		1
N22012102-1339	INSULATION BLANKET ASSEMBLY		1
N22012102-1341	INSULATION BLANKET ASSEMBLY		1
N22012102-1343	INSULATION BLANKET ASSEMBLY		1
N22012102-1345	INSULATION BLANKET ASSEMBLY		1
N22012102-1347	INSULATION BLANKET ASSEMBLY		1
N22012102-1349	INSULATION BLANKET ASSEMBLY		1
N22012102-1351	INSULATION BLANKET ASSEMBLY		1
N22012102-1353	INSULATION BLANKET ASSEMBLY		1
N22012102-1355	INSULATION BLANKET ASSEMBLY		1
N22012102-1357	INSULATION BLANKET ASSEMBLY		1
N22012102-1359	INSULATION BLANKET ASSEMBLY		1
N22012102-1501	INSULATION BLANKET ASSEMBLY		2
N22012102-1503	INSULATION BLANKET ASSEMBLY		2
N22012102-1505	INSULATION BLANKET ASSEMBLY		1
N22012102-1507	INSULATION BLANKET ASSEMBLY		1
N22012102-1509	INSULATION BLANKET ASSEMBLY		1
N01015210-1002	COMPOSITE ACOUSTIC SEAL	FLOOR PAD	AR
N01015211-001	COMPOSITE THERMAL/ACOUSTIC SEAL	WITH ACOUSTIC MEMBRANE	AR
N01015211-002	COMPOSITE THERMAL/ACOUSTIC SEAL	NO ACOUSTIC MEMBRANE	AR
N01014001-016	TAPE, INSULATION SEALING	UOM: 2" X 60YD ROLL	AR
N01014001-024	TAPE, INSULATION SEALING	UOM: 3" X 60YD ROLL	AR
N01014003-016	TAPE, DS, SILICONE/ACRYLIC	UOM: 2" X 25YD ROLL	AR
N01014005-016	TAPE, DS, ACRYLIC CLOTH	UOM: 2" X 25YD ROLL	AR



10

FLAME PROPAGATION DATA SHEET

MATERIAL: Thermal acoustic batting lay-up w/covering, 3/8" thick, (w/white side up) TEST SAMPLE P/N: 12001-003 APPLICATION: Various REPORT NO.: None CUSTOMER: N2 Development FAA PROJECT NO.: None, Engineering Qualification OTHER : 3/8" thick	TEST METHOD PER TITLE 14 CFR 25.856(a) APPENDIX F, PART VI TEST REQUIREMENTS FLAME PROPAGATION: < 2.0 Inches AFTER FLAME TIME: ≤3.0 Seconds
--	---

CONDITIONING BEGAN: 04/14/2011	TEST DATE: 04/15/2011	TESTED BY: JAMES NAUMAN
--	---------------------------------	-----------------------------------

TEST LOCATION: FAA Accepted Facility MISSION VIEJO, CA (949) 859-3569	TEST MODE: RADIANT PANEL RADIANT HEAT FLUX (W/cm²): 1.7 (± 0.085)
---	--

TEST DATA

SAMPLE NO.	FLAME PROPAGATION DISTANCE (in.)	AFTER FLAME TIME (sec.)	POST TEST COMMENTS:	SKETCH/DESCRIPTION:
1	0.5"	0.0	SHRINKAGE: YES, COVERING MATERIAL MELTED AND SHRANK MELTING: YES, COVERING MATERIAL MELTED AND SHRANK OTHER OBSERVATIONS: NONE OTHER COMMENTS: NONE	NONE
2	0.5"	0.0	SHRINKAGE: YES, COVERING MATERIAL MELTED AND SHRANK MELTING: YES, COVERING MATERIAL MELTED AND SHRANK OTHER OBSERVATIONS: NONE OTHER COMMENTS: NONE	
3	0.5"	1.1	SHRINKAGE: YES, COVERING MATERIAL MELTED AND SHRANK MELTING: YES, COVERING MATERIAL MELTED AND SHRANK OTHER OBSERVATIONS: NONE OTHER COMMENTS: NONE	

TEST RESULTS	MAXIMUM ALLOWED*	PASS/FAIL
FLAME PROPAGATION:	< 2 Inches	PASS
AFTER FLAME TIME:	≤ 3 Seconds	PASS

*Note: Any individual sample exceeding the maximum allowable constitutes a failure of the entire test for the material/composition.

FLAME PROPAGATION DATA SHEET

MATERIAL: Thermal acoustic batting lay-up w/covering, 3.0" thick, (w/green side up) TEST SAMPLE P/N: 12009-001 APPLICATION: Various REPORT NO.: None CUSTOMER: N2 Development FAA PROJECT NO.: None, Engineering Qualification OTHER : 3.0" thick	TEST METHOD PER TITLE 14 CFR 25.856(a) APPENDIX F, PART VI TEST REQUIREMENTS FLAME PROPAGATION: < 2.0 Inches AFTER FLAME TIME: ≤3.0 Seconds
--	---

CONDITIONING BEGAN: 04/14/2011	TEST DATE: 04/15/2011	TESTED BY: JAMES NAUMAN
TEST LOCATION: FAA Accepted Facility MISSION VIEJO, CA (949) 859-3569		TEST MODE: RADIANT PANEL RADIANT HEAT FLUX (W/cm²): 1.7 (± 0.085)

TEST DATA

SAMPLE NO.	FLAME PROPAGATION DISTANCE (in.)	AFTER FLAME TIME (sec.)	POST TEST COMMENTS:	SKETCH/DESCRIPTION:
1	1.0"	0.0	SHRINKAGE: YES, COVERING MATERIAL MELTED AND SHRANK MELTING: YES, COVERING MATERIAL MELTED AND SHRANK OTHER OBSERVATIONS: NONE OTHER COMMENTS: NONE	NONE
2	1.0"	0.0	SHRINKAGE: YES, COVERING MATERIAL MELTED AND SHRANK MELTING: YES, COVERING MATERIAL MELTED AND SHRANK OTHER OBSERVATIONS: NONE OTHER COMMENTS: NONE	
3	1.0"	0.0	SHRINKAGE: YES, COVERING MATERIAL MELTED AND SHRANK MELTING: YES, COVERING MATERIAL MELTED AND SHRANK OTHER OBSERVATIONS: NONE OTHER COMMENTS: NONE	

TEST RESULTS	MAXIMUM ALLOWED*	PASS/FAIL
FLAME PROPAGATION:	< 2 Inches	PASS
AFTER FLAME TIME:	≤ 3 Seconds	PASS

*Note: Any individual sample exceeding the maximum allowable constitutes a failure of the entire test for the material/composition.

FLAME PROPAGATION DATA SHEET

MATERIAL: Thermal acoustic batting lay-up w/covering, 3.5" thick, (w/green side up) TEST SAMPLE P/N: 12010-001 APPLICATION: Various REPORT NO.: None CUSTOMER: N2 Development FAA PROJECT NO.: None, Engineering Qualification OTHER : 3.5" thick	TEST METHOD PER TITLE 14 CFR 25.856(a) APPENDIX F, PART VI
	TEST REQUIREMENTS
	FLAME PROPAGATION: < 2.0 Inches
	AFTER FLAME TIME: ≤3.0 Seconds

CONDITIONING BEGAN: 04/14/2011	TEST DATE: 04/15/2011	TESTED BY: JAMES NAUMAN 
TEST LOCATION: 		FAA Accepted Facility MISSION VIEJO, CA (949) 859-3569
		TEST MODE: RADIANT PANEL RADIANT HEAT FLUX (W/cm²): 1.7 (± 0.085)

TEST DATA

SAMPLE NO.	FLAME PROPAGATION DISTANCE (in.)	AFTER FLAME TIME (sec.)	POST TEST COMMENTS:	SKETCH/DESCRIPTION:
1	1.0"	0.0	SHRINKAGE: YES, COVERING MATERIAL MELTED AND SHRANK MELTING: YES, COVERING MATERIAL MELTED AND SHRANK OTHER OBSERVATIONS: NONE OTHER COMMENTS: NONE	NONE
2	1.0"	0.0	SHRINKAGE: YES, COVERING MATERIAL MELTED AND SHRANK MELTING: YES, COVERING MATERIAL MELTED AND SHRANK OTHER OBSERVATIONS: NONE OTHER COMMENTS: NONE	
3	1.0"	0.0	SHRINKAGE: YES, COVERING MATERIAL MELTED AND SHRANK MELTING: YES, COVERING MATERIAL MELTED AND SHRANK OTHER OBSERVATIONS: NONE OTHER COMMENTS: NONE	

TEST RESULTS	MAXIMUM ALLOWED*	PASS/FAIL
FLAME PROPAGATION:	< 2 Inches	PASS
AFTER FLAME TIME:	≤ 3 Seconds	PASS

*Note: Any individual sample exceeding the maximum allowable constitutes a failure of the entire test for the material/composition.



Structural Substantiation Report for N22011102-501 Installation

Title 14 CFR Part 23 Subpart C Compliance Evaluation

- §25.301 Loads
- §25.303 Factor of Safety
- §25.561(a)(b) Emergency Landing Conditions - General

Document No.

D10052

Revision / Date

A / 2012-12-18

PROPRIETARY AND CONFIDENTIAL INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES OR ANY OTHER PURPOSE WITHOUT THE EXPRESS WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

Title:	Structural Substantiation of N22011102-501 Installation in the TBM-700/850 Aircraft
Document No.	D10052
Revision/Date:	A / 2012-12-18
Page:	1 of 8

N2 DEVELOPMENT
PROPRIETARY INFORMATION
SEE PROPRIETARY STATEMENT
ON COVER PAGE



N²Aero

Revision History

REV LETTER	DESCRIPTION	APPROVAL/DATE
-	INITIAL RELEASE	Prepared: [SIGNED] 2012-08-27 G. NELSON Date APPROVED: [SIGNED] 2012-08-27 O. Nelson Date
A	REVISED PER ECO-9231	Prepared: [SIGNED] 2012-12-18 G. NELSON Date APPROVED: [SIGNED] 2012-12-18 O. Nelson Date

Title: Structural Substantiation of N22011102-501 Installation in the
TBM-700/850 Aircraft
Document No. D10052
Revision/Date: A / 2012-12-18
Page: 2 of 8

N2 DEVELOPMENT
PROPRIETARY INFORMATION
SEE PROPRIETARY STATEMENT
ON COVER PAGE



N²Aero

Table of Contents

1	References.....	4
2	Introduction	4
3	Compliance Analysis by CFR Section	5
3.1	§25.301 – Determination of Critical Load Criteria	5
3.1.1	Insulation Blankets Taped to Stringers and Frames –Downward Load	5
3.1.2	Padding taped to main deck floor panels –Upward Load	6
3.2	§25.303 Determination of Factor of Safety.....	6
3.3	§23.561(a)(b) General	6
3.3.1	§23.561(a).....	6
3.3.2	§23.561(b).....	6
4	Evaluation Methods and Calculations	7
4.1	Case 3.1.1 –Strength of Blanket Tape Attachment	7
4.2	Case 3.1.2 – Strength of Carpet and Pad Attachment	7
5	Margin of Safety Summary	8



N²Aero

1 References

Weight and Balance Analysis of the N22011102-501 Installation in the TBM-700/850, N2 Aero Document D10051 Revision “–” Dated 27 August 2012, or later approved revision.

2 Introduction

This report is written to demonstrate compliance to the applicable sections of Title 14 CFR Part 23, Subpart C for the N22011102-501 Cabin Interior Noise Reduction System Installation on the Socata TBM-700/850 aircraft.

The applicable sections are reproduced below for reference.

Section	Title	Amendment
§23.301	Loads.	23-28
§23.303	Factor of safety.	23-0
§23.365	Pressurized compartment loads.	23-0
§23.561 (a)(b)	General.	23-34



3 Compliance Analysis by CFR Section

3.1 §25.301 – Determination of Critical Load Criteria

The system has been evaluated to determine the critical load criteria for each subsystem in the installation as follows.

The following table summarizes the inertial load factors used in this Report. Load factors are considered separately per Title 14 CFR§23.561(b).

- A positive Nx load factor indicates a load in the forward direction.
- A positive Ny load factor indicates a load in the right-hand direction.
- A positive Nz load factor indicates a load in the downward direction.

Inertial Load Factor Summary			
Description	Nx	Ny	Nz
Forward	+9.0	0.0	0.0
Down	0.0	3.0	0.0
Up	0.0	0.0	-3.0
Side (Left and Right)	0.0	1.5	0.0

The N22101102-501 Cabin Interior Noise Reduction Kit is comprised of multiple noise-reducing treatments installed throughout the fuselage. The Kit configuration is controlled by Drawing No. N22011102, Revision “-” Dated 27 August, 2012 or later approved revision. Detail drawing revision levels are as stated on Master Data List N2201, Revision “-” Dated 28 August, 2012 or later approved revision.

The fuselage primary structure and any other installation surfaces are not modified in any way.

Installation Drawings		
Drawing No.	Title	Type of Installation
N22011102	Installation – Model 2201-1 Noise Reduction System	See 3.1.1

3.1.1 Insulation Blankets Taped to Stringers and Frames –Downward Load

These installations are secured to the fuselage longerons with N01014005 tape along their vertical edges and at other points as required to keep the components in their specified locations. Furthermore, blankets fit snugly between and are contained by adjacent fuselage frames and intercostals.

The blankets apply a uniform tension load into the tape bond. The failure mode for this condition results when the tension load exceeds the maximum allowable peel strength



N²Aero

of the tape and causes it to peel from the substrate. The maximum load occurs when the installation is subject to the forward load condition.

3.1.2 Padding taped to main deck floor panels –Upward Load

These installations are secured to the main deck floor panels with N01014005 series double-face tape.

N22011102-501 defines the installation of an acoustically absorbent carpet padding material to the floor panels. In order to install the material, strips of self-adhesive tape are applied to the floor panels. No modifications are made to the floor panels or their method of installation.

Vertical loads in the UP direction and horizontal loads in any direction are applied directly to floor panels via strips of self-adhesive tape applied at a minimum area ratio of 1:6 tape to padding material. Vertical loads in the DOWN direction are reacted directly by floor panels via evenly distributed direct contact.

The failure mode for these installations occurs when sufficient force is present to peel the tape from either the pad or the floor. This occurs when the installation is subject to the upward load condition.

3.2 §25.303 Determination of Factor of Safety

The critical load cases identified in Section 3.1 above are all categorized as “ultimate” loads per §22.561(b)(2). Additional factors of safety are thus not required to be applied per §22.303.

3.3 §23.561(a)(b) General

3.3.1 §23.561(a)

The N22011102-501 installation does not impact the ability of the airplane to protect occupants under emergency landing conditions on land or water. It does not add or modify any emergency equipment, and thus it does not change the basic aircraft’s compliance to §23.561(a).

3.3.2 §23.561(b)

Each of the critical load criteria determined in 3.1 has been evaluated in order to determine compliance to 23.561(b). Critical load criteria have been selected for evaluation in such that they will represent the worst-case conditions for each representative installation, and thus satisfy the criteria for the remaining load criteria.

Refer to Section 4 of this report for a summary margin of safety table.



4 Evaluation Methods and Calculations

4.1 Case 3.1.1 –Strength of Blanket Tape Attachment

The tension loads are determined by selecting the attachment securing the highest mass per inch of taped seam and multiplying by the specified load factor. This method is considered to be conservative, as it assumes the entire load is reacted by the tape on a single edge with the minimum amount of tape (10”), whereas most installations are taped on one or more edges.

As the quantity of tape is consistent for each installed blanket, the heaviest blanket subject to the highest load factor was used to determine the critical load case. The blanket (N22102102-1347, 2.735 Lb.) was selected based on the calculated weight determined in D10051, Weight and Balance Report.

$$\begin{aligned} \text{Peel Load in Tape Bond} \\ &= \frac{(\text{Weight of Secured Component in Lbs.}) * (\text{Load Factor})}{\text{Length of Taped Seam in Inches}} = \frac{2.735 * 9.0}{10} \\ &= 2.051 \text{ lbs/in} \end{aligned}$$

The margin of safety was determined by dividing the minimum peel strength as defined in the manufacturer’s specification sheet for the tape (MFR P/N P-55B) as listed in Appendix “A” to this report by the peel load multiplied by a peel factor of 2.00.

$$M.S. = \frac{\text{Peel Strength}}{\text{Peel Load} * 2.00} - 1 = \frac{6.56}{4.92} - 1 = 0.33$$

4.2 Case 3.1.2 – Strength of Carpet and Pad Attachment

(a) Floor Panel / Carpet Padding Interface

The carpet weight is .00169lb/in² (35oz/yd²) and the pad weight is .00273 lb./in².

The joint between the floor and the carpet pad sustains the highest stresses as it reacts loads imposed by both the carpet and the pad.

Here 5510 in² of carpet pad is secured by 800in of tape capable of reacting forces in the x, y, and z directions.

The tensile stress in the tape joint is represented by the following formula:

$$\begin{aligned} \text{Peel Load in Taped Bond} &= \frac{(\text{Weight of Padding+Carpet})}{\text{Length of Taped Seam in Inches}} * \text{Load Factor} = \\ &= \frac{5510 \text{ in}^2 * \frac{.004415 \text{ lb}}{\text{in}^2}}{800 \text{ in}} * 9.0 = .274 \text{ lbs/in} \end{aligned}$$



N²Aero

The margin of safety was determined by dividing the minimum peel strength as defined in the manufacturer's specification sheet for the tape (MFR P/N P-55B) as listed in Appendix "A" to this report by the peel load multiplied by a peel factor of 2.00.

$$M.S. = \frac{\text{Peel Strength}}{\text{Peel Load} * 2.00} - 1 = \frac{6.56}{.274} - 1 = 10.97 \text{ (HIGH)}$$

5 Margin of Safety Summary

Note that margin of safety calculations equal to or greater than 5.0 are presented as "High" in the following tables. Margin of safety calculations less than or equal to +.25 are presented in bold type.

Load Case (See Section 3.1)	Ref. Installations	Load Condition	Failure Mode	Location	MS
3.1.1	N22011102-501 (Insulation Blankets)	Forward, Downward, Upward, Side	Tension (180° Peeling of adhesive tape)	Main Cabin Sidewalls and Crown	0.33
3.1.2	N22011102-501 (Carpet Pad)	Forward, Downward, Upward, Side	Tension (180° Peeling of adhesive tape)	Main Cabin Floor	HIGH (10.97)



N²Aero

Appendix A Manufacturer Data Sheets

Appendix A contains the manufacturer data sheets whose data was used in the preparation of this report.

Title:	Structural Substantiation of N22011102-501 Installation in the TBM-700/850 Aircraft
Document No.	D10052
Revision/Date:	- / 2012-08-27
Page:	A1

**N2 DEVELOPMENT
PROPRIETARY INFORMATION**

SEE PROPRIETARY STATEMENT
ON COVER PAGE



PERMACEL & NITTO DENKO AUTOMOTIVE, INC.

P-55 / P-55B

DOUBLE COATED ADHESIVE TAPE WITH FLAME RETARDANT FOR CARPET FIXATION

P55 is a high performance flame retardant double coated cloth backed tape. It was engineered as a highly conformable carpet installation tape that maintains both Airbus and Boeing QPL approvals.

Features

- High performance rubber adhesive provides quick stick properties but superior bonding properties that improve with age.
- Cloth backing provides excellent strength and superior conformability.
- Adhesive bonds well to the cloth backing offering minimal residue during removal helping improve productivity during maintenance and repair.
- FAR 25.853 approval for flame retardancy and ABD0031-E para 6.3, 7.3, 7.3.1 and 7.3.2 Table 1 for smoke density and toxic gas emissions.
- P55 is available in natural white.
- P55B is available in black.

Product Construction

Adhesive Layer
Cloth
Adhesive Layer
Liner

Application

- Flame retardant construction. Engineered to meet stringent requirements of aviation industry – widely used for installing carpeting on interior floors and stairways of commercial aircraft.
- Recommended for service wherever flame retardancy and/or a rugged, heavy-duty double-coated tape is demanded. Examples: fastening automotive interior carpeting and vinyl, splicing foils, plastics, metals, cloth or glass.
- Ideal for commercial and institutional carpet installation work, especially on rough surfaces such as concrete or unfinished wooden floors.
- Often used for mounting kick plates to mount trim strips where walls meet pre-hung ceiling.

<http://www.permacel.com/files/ProductDetails.aspx?Pid=15&CatId=43>

6/2/2009

Title: Structural Substantiation of N22011102-501 Installation in the
TBM-700/850 Aircraft
Document No. D10052
Revision/Date: - / 2012-08-27
Page: A2

**N2 DEVELOPMENT
PROPRIETARY INFORMATION**
SEE PROPRIETARY STATEMENT
ON COVER PAGE



Properties

Backing material	Cotton cloth with flame retardant fungicide treatment	
Adhesive	Cured rubber/resin, flame retardant	
Color	White and Black	
	Imperial	Metric
Total Tape Thickness w/ liner	17.0 mils	0.432 mm
Total Tape Thickness w/o liner	13.0 mils	0.330 mm
Adhesion to Steel	105 oz/in	11.4 N/10 mm
Government Specifications	FAR-Part 25 Section 853, ABD	

***CAUTION:** The above are typical values and should not be used in writing specifications. Customer is responsible to ensure product meets intended application requirements before approved for use.



Master Data List Socata TBM Noise Reduction System

No.	Revision	Date
N2201	B	2012-12-18

Refer to ECO-9229 for revision history

PROPRIETARY, CONFIDENTIAL, AND/OR TRADE SECRET INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

**N²Aero****Master Data List Socata TBM Noise
Reduction System****No. N2201**
Revision B
Sheet No. 2 of 2

DWG/DOC NO.	REV	DATE	TITLE
N22011102	A	2012-09-17	Installation, Socata TBM Fuselage Noise Reduction System
N22012102	A	2012-12-05	Insulation Blankets N2201 Model Series
N01011	B	2012-08-27	Insulation Blanket Assembly, Basic Shapes, Variable
N01012001	-	2011-03-18	Blanket, Acoustic, .38" Thk
N01012008	-	2011-03-18	Blanket, Acoustic, 1.88" Thk
N01012013	-	2012-08-27	Blanket, Acoustic, 2.38" Thickness
N01012014	-	2012-08-27	Blanket, Acoustic, 0.63" Thickness
N01014001	-	2011-03-18	Tape, Insulation Sealing
N01014003	-	2011-03-18	Tape, Double Sided, Film Substrate, Silicone/Acrylic Adhesive
N01014005	-	2011-03-18	Tape, Double-Sided, Woven Substrate, Acrylic/Acrylic Adhesive
N01015001	-	2011-03-18	Batting, Fiberglass, AA WRP, 0.60 PCF
N01015002	-	2011-03-18	Batting, Fiberglass, AA WRP, 1.60 PCF
N01015003	-	2011-03-18	Batting, Fiberglass, AA WRP, 3.50 PCF
N01015004	-	2011-03-18	Batting, Fiberglass, AA WRP, 0.42 PCF
N01015101	-	2011-03-18	Film, Reinforced, Thermal Adhesive
N01015202	-	2011-03-18	Foam, PVC/NBR/CR
N01015210	-	2012-02-22	Composite Acoustic Seal
N01015211	-	2012-08-27	Acoustic Seal, Felt
N01015212	-	2012-08-27	Felt, PFR Rayon, Aluminized
N01015301	-	2011-03-18	Acoustic Barrier, Cast Unreinforced
N02020001	-	2011-03-18	Insulation Blanket Assembly
D10051	B	2012-12-18	Weight and Balance Analysis N22012102-501 Cabin Interior Noise Reduction System
D10052	A	2012-12-18	Structural Substantiation N22012102-501 Cabin Interior Noise Reduction System

PROPRIETARY, CONFIDENTIAL, AND/OR TRADE SECRET INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.



N22011102-501

Weight and Balance Supplement

Document No.

D10051

Revision / Date

B / 2012-12-18

PROPRIETARY AND CONFIDENTIAL INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES OR ANY OTHER PURPOSE WITHOUT THE EXPRESS WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.



Revision History

REV LETTER	DESCRIPTION	APPROVAL/DATE
-	INITIAL RELEASE	Prepared: [SIGNED] 2012-08-27 G. NELSON Date APPROVED: [SIGNED] 2012-08-27 O. Nelson Date
A	REVISIONS PER ECO-9168 (UPDATED TO REFLECT CHANGES TO N22011102-501 INSTALLATION)	Prepared: [SIGNED] 2012-09-17 G. NELSON Date APPROVED: [SIGNED] 2012-09-17 O. Nelson Date
B	REVISIONS PER ECO-9230 (MINOR CORRECTIONS)	Prepared: [SIGNED] 2012-12-18 G. NELSON Date APPROVED: [SIGNED] 2012-12-18 O. Nelson Date



N²Aero

Table of Contents

Revision History.....	2
Table of Contents	3
Abstract.....	4
Purpose	4
Method	5
Fuselage Insulation Blanket Installation / Modification.....	5
Main Cabin Floor Installation.....	5
Analysis Data.....	6



Abstract

This document contains the Weight and Balance Analysis for Part No. N22011102-501 Noise Reduction System Installation on a Socata TBM-700/850 aircraft.

Purpose

The purpose of this report is to establish the net change in weight and center of gravity associated with the installation of the N22011102-501 configuration.

The calculated weight, arm, and moment for each component of the installation configuration are determined.

The operator shall confirm the actual weight and balance change associated with the installation of the Noise Reduction System by weighing and updating the weight and balance data for the aircraft and verifying that all the weight and CG fall within parameters published by Type Certificate holder.



N²Aero

Method

The N22011102-501 Cabin Interior Noise Reduction Kit is comprised of multiple noise-reducing treatments installed throughout the fuselage. The Kit configuration is controlled by Drawing No. N22011102, Revision "A" Dated 17 September, 2012 or later approved revision. Detail drawing revision levels are as stated on Master Data List N2201, Revision "A" Dated 17 September, 2012 or later approved revision.

Installation is separated into discrete major component installation kits.

Installation components fall into two basic categories:

- Insulation blankets installed inside the fuselage,
- Floor covering installed on the fuselage main deck.

Fuselage Insulation Blanket Installation / Modification

The following installation configurations install thermal/acoustic insulation blanket assemblies between and over the fuselage frames inside the pressure vessel:

- N22011102-501: Fuselage Installation

These component installation configurations install materials with uniform weight/area ratio in a symmetrical fashion throughout the fuselage. Installation is symmetric about the longitudinal centerline axis.

Each component installation is broken into discrete areas representing uniform weight distribution, based on the material type used. Areas are approximately rectangular in shape. The weight of each of these areas is calculated by multiplying the unit weight of the material used by the total area. The arm is calculated as the mean longitudinal distance from the aircraft datum within each area.

Main Cabin Floor Installation

The following configurations install N01015202-004 acoustic foam pad and N01015205-004 composite floor pad between the cabin floor panels and carpet:

- N22011102-501: Fuselage Installation

The installation consists of discrete sections of floor covering with uniform weight/area ratio. The weight and geometric center of these discrete sections is determined and reported as the weight and arm, respectively.



N²Aero

Analysis Data

Appendix “A” presents the summary and detail results of the weight and balance analysis for the N22011102-501 top installation.

Title:	N22011102-501 Installation Weight and Balance Analysis
Document No.	D10051
Revision/Date:	B / 2012-12-18
Page:	6 of 6

**N2 DEVELOPMENT
PROPRIETARY INFORMATION**

SEE PROPRIETARY STATEMENT
ON COVER PAGE



Weight and Balance Summary
N2201-1 Top Instl

Component	Weight	Arm	Moment
N22011102-501 Fuselage	138.55	214.64	29737
Removed Insulation	-30.10	224.96	-6771
Grand Total, N2201-1 Top Instl	108.45	211.77	22966

**N²Aero**

Weight and Balance Detail
N22011102-501 Insulation Blanket Installation

Subcomponent	Description	Qty / Assy	Unit Weight	Total Weight	Arm	Moment
N22011102-501 Installation						
N01011AAR-134-25	INSULATION BLANKET ASSEMBLY	1	0.0328	0.03	282.68	9.28
N01011AAR-25-150	INSULATION BLANKET ASSEMBLY	1	0.0367	0.04	225.20	8.27
N01011AAR-25-208	INSULATION BLANKET ASSEMBLY	1	0.0509	0.05	287.80	14.66
N01011AAR-25-240	INSULATION BLANKET ASSEMBLY	6	0.0588	0.35	191.34	67.48
N01011AAR-25-240	INSULATION BLANKET ASSEMBLY	11	0.0588	0.65	211.14	136.51
N01011AAR-25-74	INSULATION BLANKET ASSEMBLY	1	0.0181	0.02	282.68	5.12
N01011AAR-55-300	INSULATION BLANKET ASSEMBLY	1	0.1616	0.16	317.32	51.29
N01011ADR-50-240	INSULATION BLANKET ASSEMBLY	2	0.7294	1.46	187.80	273.96
N01011ADR-50-240	INSULATION BLANKET ASSEMBLY	2	0.7294	1.46	211.54	308.60
N01011CAR-100-375	INSULATION BLANKET ASSEMBLY	1	1.1616	1.16	302.56	351.45
N01011CAR-50-82	INSULATION BLANKET ASSEMBLY	1	0.1270	0.13	285.24	36.23
N01011CAR-55-250	INSULATION BLANKET ASSEMBLY	1	0.4259	0.43	285.24	121.49
N01011CAR-55-82	INSULATION BLANKET ASSEMBLY	2	0.1397	0.28	270.59	75.60
N01011CAR-60-82	INSULATION BLANKET ASSEMBLY	2	0.1524	0.30	244.27	74.45
N01011CAR-63-250	INSULATION BLANKET ASSEMBLY	1	0.4879	0.49	273.74	133.55
N01011CAR-63-82	INSULATION BLANKET ASSEMBLY	1	0.1600	0.16	279.53	44.73
N01011CAR-65-82	INSULATION BLANKET ASSEMBLY	2	0.1651	0.33	258.09	85.22
N01011CAR-68-98	INSULATION BLANKET ASSEMBLY	1	0.2064	0.21	312.40	64.49
N01011CCR-88-123	INSULATION BLANKET ASSEMBLY	1	0.7111	0.71	224.88	159.92
N01011CCR-90-123	INSULATION BLANKET ASSEMBLY	2	0.7273	1.45	224.88	327.10
N01011CAR-98-133	INSULATION BLANKET ASSEMBLY	1	0.4037	0.40	312.40	126.13
N01011CAR-98-170	INSULATION BLANKET ASSEMBLY	1	0.5161	0.52	312.40	161.22
N01011CCR-100-43	INSULATION BLANKET ASSEMBLY	1	0.2825	0.28	177.56	50.16
N01011CCR-125-43	INSULATION BLANKET ASSEMBLY	1	0.3531	0.35	177.56	62.70
N01011CCR-218-90	INSULATION BLANKET ASSEMBLY	1	1.2890	1.29	177.56	228.87
N01011CCR-225-43	INSULATION BLANKET ASSEMBLY	1	0.6356	0.64	177.56	112.86
N01011CCR-88-104	INSULATION BLANKET ASSEMBLY	1	0.6013	0.60	193.90	116.58
N01011CCR-88-105	INSULATION BLANKET ASSEMBLY	2	0.6013	1.20	193.90	233.17
N01011CCT-83-143-205	INSULATION BLANKET ASSEMBLY	1	0.9488	0.95	177.56	168.47
N01011CCT-83-205-143	INSULATION BLANKET ASSEMBLY	1	0.9488	0.95	177.56	168.47
N01011JAR-100-373	INSULATION BLANKET ASSEMBLY	1	1.2035	1.20	302.56	364.14
N01011JAR-135-99	INSULATION BLANKET ASSEMBLY	1	0.4312	0.43	292.72	126.23
N01011JAR-235-99	INSULATION BLANKET ASSEMBLY	1	0.7507	0.75	312.40	234.51
N01011JAR-373-100	INSULATION BLANKET ASSEMBLY	1	1.2035	1.20	302.56	364.14
N01011JAR-50-180	INSULATION BLANKET ASSEMBLY	1	0.2904	0.29	285.24	82.83
N01011JAR-50-208	INSULATION BLANKET ASSEMBLY	1	0.3356	0.34	285.24	95.72
N01011JAR-50-50	INSULATION BLANKET ASSEMBLY	1	0.0807	0.08	285.24	23.01



N²Aero

Weight and Balance Detail
N22011102-501 Insulation Blanket Installation

Subcomponent	Description	Qty / Assy	Unit Weight	Total Weight	Arm	Moment
N01011JAS-97-75-70	INSULATION BLANKET ASSEMBLY	1	0.2191	0.22	292.72	64.13
N01011JAS-97-130-143	INSULATION BLANKET ASSEMBLY	1	0.4476	0.45	292.72	131.01
N01011JAS-97-183-170	INSULATION BLANKET ASSEMBLY	1	0.5321	0.53	292.72	155.74
N01011JAS-99-170-155	INSULATION BLANKET ASSEMBLY	1	0.4951	0.50	312.40	154.68
N01011JAS-99-183-170	INSULATION BLANKET ASSEMBLY	1	0.5430	0.54	292.72	158.96
N01011JBR-110-115	INSULATION BLANKET ASSEMBLY	1	0.5399	0.54	270.59	146.10
N01011JBR-193-118	INSULATION BLANKET ASSEMBLY	1	0.9721	0.97	270.59	263.03
N01011JBR-193-39	INSULATION BLANKET ASSEMBLY	1	0.3213	0.32	270.59	86.93
N01011JBR-193-85	INSULATION BLANKET ASSEMBLY	1	0.7002	0.70	244.27	171.04
N01011JBR-25-143	INSULATION BLANKET ASSEMBLY	1	0.1526	0.15	244.27	37.27
N01011JCR-29-180	INSULATION BLANKET ASSEMBLY	1	0.3497	0.35	235.71	82.42
N01011JBR-30-185	INSULATION BLANKET ASSEMBLY	1	0.2305	0.23	215.47	49.66
N01011JBR-31-183	INSULATION BLANKET ASSEMBLY	1	0.2421	0.24	266.26	64.47
N01011JCR-64-183	INSULATION BLANKET ASSEMBLY	2	0.7846	1.57	215.47	338.10
N01011JBR-68-158	INSULATION BLANKET ASSEMBLY	1	0.4586	0.46	258.09	118.36
N01011JBR-68-39	INSULATION BLANKET ASSEMBLY	1	0.1132	0.11	270.59	30.63
N01011JBT-115-100-80	INSULATION BLANKET ASSEMBLY	1	0.4418	0.44	270.59	119.54
N01011JBT-120-205-198	INSULATION BLANKET ASSEMBLY	1	1.0321	1.03	231.18	238.59
N01011JBT-120-275-272	INSULATION BLANKET ASSEMBLY	1	1.4008	1.40	231.18	323.85
N01011JBT-134-100-68	INSULATION BLANKET ASSEMBLY	1	0.4804	0.48	258.09	124.00
N01011JCT-183-20-24	INSULATION BLANKET ASSEMBLY	1	0.2697	0.27	215.35	58.08
N01011JCT-183-40-44	INSULATION BLANKET ASSEMBLY	1	0.5149	0.51	215.35	110.88
N01011JCR-115-90	INSULATION BLANKET ASSEMBLY	1	0.6933	0.69	171.85	119.15
N01011JCR-145-45	INSULATION BLANKET ASSEMBLY	1	0.4371	0.44	224.88	98.30
N01011JCR-160-140	INSULATION BLANKET ASSEMBLY	2	1.5005	3.00	143.21	429.78
N01011JCR-20-240	INSULATION BLANKET ASSEMBLY	1	0.3215	0.32	224.88	72.31
N01011JCR-35-250	INSULATION BLANKET ASSEMBLY	1	0.5861	0.59	224.88	131.81
N01011JCR-58-180	INSULATION BLANKET ASSEMBLY	2	0.6994	1.40	191.50	267.85
N01011JCR-65-90	INSULATION BLANKET ASSEMBLY	1	0.3919	0.39	171.85	67.34
N01011JCR-95-75	INSULATION BLANKET ASSEMBLY	1	0.4773	0.48	153.05	73.05
N01011JCT-65-73-68	INSULATION BLANKET ASSEMBLY	1	0.3070	0.31	153.05	46.98
N01011JCT-90-85-90	INSULATION BLANKET ASSEMBLY	1	0.5275	0.53	172.44	90.97
N01011JCT-90-150-162	INSULATION BLANKET ASSEMBLY	1	0.9405	0.94	171.85	161.63
N01011JCT-90-162-150	INSULATION BLANKET ASSEMBLY	1	0.9405	0.94	171.85	161.63
N01011JCT-97-117-118	INSULATION BLANKET ASSEMBLY	1	0.7635	0.76	182.09	139.02
N01011JCT-97-118-116	INSULATION BLANKET ASSEMBLY	1	0.7602	0.76	182.09	138.43
N01011JCT-97-253-266	INSULATION BLANKET ASSEMBLY	1	1.6862	1.69	182.09	307.03
N01011JCT-97-266-253	INSULATION BLANKET ASSEMBLY	1	1.6862	1.69	182.09	307.03
N01011JCT-105-278-273	INSULATION BLANKET ASSEMBLY	1	1.9378	1.94	193.90	375.73
N01011JCT-230-105-120	INSULATION BLANKET ASSEMBLY	1	1.7333	1.73	143.21	248.23



N²Aero

Weight and Balance Detail
N22011102-501 Insulation Blanket Installation

Subcomponent	Description	Qty / Assy	Unit Weight	Total Weight	Arm	Moment
N01011JCT-230-120-105	INSULATION BLANKET ASSEMBLY	1	1.7333	1.73	143.21	248.23
N01011KAR-115-250	INSULATION BLANKET ASSEMBLY	1	0.7853	0.79	270.59	212.50
N01011KCR-138-175	INSULATION BLANKET ASSEMBLY	1	1.4982	1.50	258.09	386.68
N01011KCR-143-175	INSULATION BLANKET ASSEMBLY	1	1.5525	1.55	244.27	379.23
N01011KCR-83-123	INSULATION BLANKET ASSEMBLY	2	0.6333	1.27	224.88	284.86
N01011KCR-88-123	INSULATION BLANKET ASSEMBLY	1	0.6715	0.67	224.88	151.01
N01011KCR-88-138	INSULATION BLANKET ASSEMBLY	1	0.7534	0.75	258.09	194.44
N01011KCR-88-143	INSULATION BLANKET ASSEMBLY	1	0.7807	0.78	244.27	190.70
N01011KCR-90-123	INSULATION BLANKET ASSEMBLY	2	0.6868	1.37	224.88	308.88
N01011KBR-160-103	INSULATION BLANKET ASSEMBLY	1	0.6218	0.62	231.18	143.76
N01011KBR-183-165	INSULATION BLANKET ASSEMBLY	1	1.1393	1.14	244.27	278.31
N01011KBR-43-38	INSULATION BLANKET ASSEMBLY	2	0.0617	0.12	203.43	25.08
N01011KBR-43-38	INSULATION BLANKET ASSEMBLY	2	0.0617	0.12	226.77	27.96
N01011KBR-43-38	INSULATION BLANKET ASSEMBLY	2	0.0617	0.12	250.98	30.95
N01011KBR-43-38	INSULATION BLANKET ASSEMBLY	1	0.0617	0.06	275.20	16.97
N01011KBT-155-184-191	INSULATION BLANKET ASSEMBLY	1	1.0966	1.10	270.59	296.73
N01011KCR-83-104	INSULATION BLANKET ASSEMBLY	2	0.5355	1.07	205.83	220.45
N01011KCR-83-105	INSULATION BLANKET ASSEMBLY	2	0.5407	1.08	193.90	209.67
N01011KCR-88-104	INSULATION BLANKET ASSEMBLY	1	0.5678	0.57	205.83	116.86
N01011KCR-88-105	INSULATION BLANKET ASSEMBLY	1	0.5732	0.57	193.90	111.15
N01011KCR-90-104	INSULATION BLANKET ASSEMBLY	1	0.5807	0.58	205.83	119.52
N22012102-1301	INSULATION BLANKET ASSEMBLY	1	2.8564	2.86	137.80	393.59
N22012102-1302	INSULATION BLANKET ASSEMBLY	1	2.8564	2.86	137.80	393.59
N22012102-1303	INSULATION BLANKET ASSEMBLY	1	0.7180	0.72	153.05	109.89
N22012102-1304	INSULATION BLANKET ASSEMBLY	1	0.7180	0.72	153.05	109.89
N22012102-1305	INSULATION BLANKET ASSEMBLY	1	0.4814	0.48	153.05	73.68
N22012102-1306	INSULATION BLANKET ASSEMBLY	1	0.4814	0.48	153.05	73.68
N22012102-1307	INSULATION BLANKET ASSEMBLY	1	0.4553	0.46	153.05	69.68
N22012102-1308	INSULATION BLANKET ASSEMBLY	1	0.4553	0.46	153.05	69.68
N22012102-1309	INSULATION BLANKET ASSEMBLY	1	0.2841	0.28	153.05	43.48
N22012102-1310	INSULATION BLANKET ASSEMBLY	1	0.2841	0.28	153.05	43.48
N22012102-1311	INSULATION BLANKET ASSEMBLY	1	0.4407	0.44	162.40	71.57
N22012102-1313	INSULATION BLANKET ASSEMBLY	1	0.8974	0.90	193.90	174.00
N22012102-1315	INSULATION BLANKET ASSEMBLY	1	0.1428	0.14	218.43	31.19
N22012102-1317	INSULATION BLANKET ASSEMBLY	1	2.6857	2.69	205.83	552.79
N22012102-1319	INSULATION BLANKET ASSEMBLY	1	1.4089	1.41	218.43	307.74
N22012102-1321	INSULATION BLANKET ASSEMBLY	1	1.1510	1.15	244.27	281.16
N22012102-1323	INSULATION BLANKET ASSEMBLY	1	1.5618	1.56	258.09	403.09



N²Aero

Weight and Balance Detail
N22011102-501 Insulation Blanket Installation

Subcomponent	Description	Qty / Assy	Unit Weight	Total Weight	Arm	Moment
N22012102-1325	INSULATION BLANKET ASSEMBLY	1	0.2295	0.23	218.43	50.13
N22012102-1327	INSULATION BLANKET ASSEMBLY	1	0.2213	0.22	231.18	51.16
N22012102-1329	INSULATION BLANKET ASSEMBLY	2	0.3199	0.64	203.43	130.15
N22012102-1331	INSULATION BLANKET ASSEMBLY	2	0.3199	0.64	203.43	130.15
N22012102-1333	INSULATION BLANKET ASSEMBLY	2	0.2014	0.40	226.77	91.34
N22012102-1335	INSULATION BLANKET ASSEMBLY	2	0.2014	0.40	226.77	91.34
N22012102-1333	INSULATION BLANKET ASSEMBLY	2	0.2014	0.40	250.98	101.10
N22012102-1335	INSULATION BLANKET ASSEMBLY	2	0.2014	0.40	250.98	101.10
N22012102-1333	INSULATION BLANKET ASSEMBLY	1	0.2014	0.20	275.20	55.42
N22012102-1335	INSULATION BLANKET ASSEMBLY	1	0.2014	0.20	275.20	55.42
N22012102-1337	INSULATION BLANKET ASSEMBLY	1	0.8347	0.83	279.53	233.32
N22012102-1339	INSULATION BLANKET ASSEMBLY	1	0.9467	0.95	312.40	295.75
N22012102-1341	INSULATION BLANKET ASSEMBLY	1	1.9193	1.92	162.40	311.70
N22012102-1343	INSULATION BLANKET ASSEMBLY	1	0.5268	0.53	171.85	90.53
N22012102-1345	INSULATION BLANKET ASSEMBLY	1	0.6430	0.64	171.85	110.50
N22012102-1347	INSULATION BLANKET ASSEMBLY	1	2.7354	2.74	193.90	530.39
N22012102-1349	INSULATION BLANKET ASSEMBLY	1	2.7030	2.70	205.83	556.35
N22012102-1351	INSULATION BLANKET ASSEMBLY	1	0.5577	0.56	231.18	128.93
N22012102-1353	INSULATION BLANKET ASSEMBLY	1	1.8590	1.86	218.43	406.05
N22012102-1355	INSULATION BLANKET ASSEMBLY	1	0.2179	0.22	292.72	63.78
N22012102-1357	INSULATION BLANKET ASSEMBLY	1	1.0900	1.09	177.56	193.54
N22012102-1359	INSULATION BLANKET ASSEMBLY	1	0.9936	0.99	292.72	290.84
N22012102-1501	INSULATION BLANKET ASSEMBLY	2	1.0184	2.04	162.80	331.58
N22012102-1503	INSULATION BLANKET ASSEMBLY	2	0.6111	1.22	199.76	244.15
N22012102-1505	INSULATION BLANKET ASSEMBLY	1	1.8332	1.83	244.06	447.40
N22012102-1507	INSULATION BLANKET ASSEMBLY	1	0.6620	0.66	224.45	148.59
N22012102-1509	INSULATION BLANKET ASSEMBLY	1	1.8507	1.85	256.77	475.21
N01015210-1002	COMPOSITE ACOUSTIC SEAL	40.278	0.39	15.82	207.09	3275.58
N01015211-001	COMPOSITE THERMAL/ACOUSTIC SEAL	21	0.07	1.46	252.56	368.32
N01015211-002	COMPOSITE THERMAL/ACOUSTIC SEAL	21	0.31	6.56	252.56	1657.42
N01014001-016	TAPE, INSULATION SEALING	0	0.25	0.00	252.56	0.00
N01014001-024	TAPE, INSULATION SEALING	1	0.25	0.25	252.56	63.14
N01014003-016	TAPE, DS, SILICONE/ACRYLIC	0	0.13	0.00	252.56	0.00
N01014005-016	TAPE, DS, ACRYLIC CLOTH	1	0.67	0.67	252.56	168.11
Totals				138.55	214.64	29736.95



N²Aero

Weight and Balance Detail
Removed Insulation

Removed Insulation	Area	% of Total	Weight	Arm	Moment
Cockpit - OEM	4013	0.175970182	-5.03	162.80	-819.31
Sidewalls/Ceiling - OEM	18792	0.824029818	-23.57	252.56	-5952.12
Cockpit - TRIM	4013	0.175970182	-0.26	162.80	-42.97
Sidewalls/Ceiling - TRIM	18792	0.824029818	-1.24	252.56	-312.17
Totals			-30.10	224.96	-6771.43

The New AVEX, Inc.

C.R.S. X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A10548

Date: 9/21/2013



Hobbs: 68.7

TTSN:

TLSN:

Removed L-3 Trilogy ESI 2000 P/N 9200-32500-0021, S/N 1694 and installed a repaired L-3 Trilogy ESI 2000 P/N 9200-32500-0021, S/N 1486 I.A.W. Socata MM Chapter 34. Op checks good.

2. Installed an owner supplied Icarus IPAD mount on pilots yoke and attached wires to the map light power supply and installed an in line fuse I.A.W. Icarus IPD Mount Instructions. This is considered a minor installation.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A10548.

Repar D. Lugo 9/24/13
Date

(LBID:9874)

For: FAA Approved Repair Station # X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 10683

Date: 11/18/2013

Hobbs: 104.2

TTSN: 104.2

TLSN: 58

1. Complied with First 100 Hour Inspection I.A.W. Socata MM Chapter 05-20-01 and 05-20-05, a list of owner denied discrepancies provided to the aircraft owner. All AD's checked through Revision 2013-22; see AD compliance record provided with the airframe logbook.
2. Complied with AD 2002-19-01 by testing the pilot and co-pilot control wheels to assure they don't become jammed I.A.W. SB 70-095-27R01. No defects found at this time.
3. AD 2010-11-15, L'Hotellier fire extinguishers, does not apply by S/N of extinguisher installed (RM 73323).
4. AD 2012-10-14, replacement of nose gear axle attach bolt, does not apply by nose gear S/N (AR1107).
5. Socata SB's 70-197 and 70-206 do not apply due to this airplane being Factory equipped with gear actuators having the P/N VSTS083560 (Socata P/N 7897340001).
6. Complied with the annual servicing of the oxygen system I.A.W. Socata MM Chapter 35. Op and leak checks good.
7. Complied with shimmy damper modification MOD70-0344-32 by installation of silicone hydraulic fluid PSF-100cSt and new o-rings I.A.W. Socata CMM 30-22-01. Op checks good.
8. Removed and replaced shimmy dampener piston with new I.A.W. Socata MM Chapter 32. Op and leak checks good.
9. Adjusted condition lever I.A.W. Socata MM Chapter 76. Op checks good.
10. Adjusted compressor belt tension I.A.W. Socata MM Chapter 21. Op checks good.
11. Adjusted the standby generator belt tension I.A.W. Socata MM Chapter 24. Op checks good.
12. Removed and replaced the copilot reading light assembly with new I.A.W. Socata MM Chapter 25 and 33. Op checks good.

The New AVEX, Inc.

C.R.S. X1IR595Y

Page 2 of 2

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 10683

Date: 11/18/2013

Hobbs: 104.2

TTSN: 104.2

TLSN: 58

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 10683.

Byron D. Guy 11/18/13
Date

(LBID:10022)

For: FAA Approved Repair Station # X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A10994

Date: 5/21/2014

Hobbs: 215

TTSN: 215

TLSN: 131

1. Complied with RVSM Manual annually recurring inspection/check of the air data systems I.A.W. Socata MM Chapter 34-11-00, Page 602, Items 15 through 18 and 20; and owner operators approved RVSM Manual. No defects noted at this time. Op checks good.
2. Complied with RVSM Manual annually recurring visual and functional checks of the altitude alerter system I.A.W. Socata MM Chapter 22-11-00, Page 601; and owner operators approved RVSM Manual. No defects noted at this time. Op checks good.
3. Complied with RVSM Manual annually recurring inspection/check of the autopilot altitude control system I.A.W. Socata MM Chapters 22-11-00, Page 601 through 604; and owner operators approved RVSM Manual. No defects noted at this time. Op checks good.
4. Complied with RVSM Manual annually recurring inspection/check of the fuselage I.A.W. Socata MM Chapter 53-00-00, Page 601, Items 5 through 10; and owner operators approved RVSM manual. No defects noted at this time.
5. Complied with RVSM Manual annually recurring inspection/check of the fairings I.A.W. Socata MM Chapter 57-10-00, Page 601 and 602, Items 6 and 7; and owner operators approved RVSM manual. No defects noted at this time.
6. Complied with ESI 2000 annually recurring inspection and controlled discharge of the backup battery I.A.W. Chapter 2 of L-3 Communications Drawing #0031-32504-01 and Section 2.3 of L-3 IM P/N 0040-32501-01 - Instructions for Continued Airworthiness. No defects noted at this time. Op checks good.
7. Removed original left and right wing tip navigation/strobe lights and installed new Whelen lights LED left and right wing tip navigation/strobe lights P/N 01-0771733-11 and P/N 01-0771733-12 I.A.W. Whelen Installation Guide. Op checks good. FAA form 337 filed this date with the Van Nuys FSDO. A copy of FAA form 337 provided with the airframe logbook.
8. Removed left and right landing lights P/N Z00.N6033407226 and taxi light P/N Z00.N6033407222, and installed PMA'ed Teledyne Alpha Beam P/N 2307055-1 LED landing and taxi light lamps I.A.W.

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A10994

Date: 5/21/2014

Hobbs: 215

TTSN: 215

TLSN: 131

Socata MM Chapter 33 and Teledyne PMA PQ4015NM. Op checks good. Landing light lamp Socata replacement part number is 4587.

9. Calibrated air data computers #1 and #2 I.A.W. Socata MM Chapter 34; Field Calibration Manual 190-00303-82; and 14CFR FAR 91.411/413, Part 43, Appendices E/F. Op checks good.
10. Installed new Bose headset jack on PL11 panel I.A.W. Socata WM Chapter 23. Op checks good. This is a minor modification.
11. Added a ground to the Mid-Continent inverter P/N MD50, S/N D13-10722, per Mid-Continent drawing to reduce noise interference when inverter is used with Apple brand products. The installation of the ground wire is a minor modification to the system for product improvement.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A10994.

Bryan D. Freeman 5/21/14
Date

(LBID:10426)

For: FAA Approved Repair Station # X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 10993

Date: 5/22/2014

Hobbs: 215

TTSN: 215

TLSN: 131

1. Complied with a "A" inspection plus annual I.A.W. Socata MM Chapter 05-20-02 and 05-20-05. All AD's checked through revision 2014-08; see AD compliance record provided with the airframe logbook.
2. Complied with AD 2002-19-01 by testing the pilot and co-pilot control wheels to assure they don't become jammed I.A.W. SB 70-095-27R01. No defects found at this time.
3. AD 2014-06-06 does not apply due to this airplane being Factory equipped with gear actuators having the P/N VSTS083560 (Socata P/N 7897340001).
4. Complied with SB 70-118R1-27 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Socata MM Chapter 27. Op checks good on the extension and retraction of the flaps.
5. Complied with the annual servicing of the oxygen system I.A.W. Socata MM Chapter 35. Op and leak checks good.
6. Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Socata MM Chapter 32; and lubricated landing gear axles I.A.W. Socata MM Chapter 12. No defects noted at this time. Op and leak checks good.
7. Complied with 12 month check of the slip clutch manual override for the B35, B36, B37, and B38 servo-actuators I.A.W. Socata MM Chapter 22-11-00, Page 602. No defects noted at this time. Op checks good.
8. Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects noted at this time. Battery next due replacement at 03/2018.
9. Complied with the 12 month or 600 hour capacity check of the lead acid battery P/N RG-980E/44, S/N 40581889 I.A.W. Concorde Document 5-0171/S.T.C. SA00775LA - Instructions for Continued Airworthiness. Op checks good.

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 10993

Date: 5/22/2014



Hobbs: 215

TTSN: 215

TLSN: 131

Balanced nose landing gear tire I.A.W. Socata MM Chapter 32. Op checks good.

11. Adjusted left and right spoiler and aileron cable tension and performed travel checks I.A.W. Socata MM Chapter 27. Op checks good.
12. Resealed left wing fuel panel 534 I.A.W. Socata MM Chapter 52. Leak checks good.
13. Adjusted secondary elevator stops to allow proper clearance I.A.W. Socata MM Chapter 27.
14. Removed and replaced propeller carbon beta block with new I.A.W. Socata MM Chapter 61.
15. Adjusted forward, vertical edge of main cabin door seal to eliminate pinching I.A.W. Socata MM Chapter 52.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 10993.

Beyon D. Guy 5/22/14

Date

(LBID:10427)

For: FAA Approved Repair Station # X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

ENGINE Pratt & Whitney PT6A-66D S/N PCE-RV0327 N850FP

Work Order: 10993 TTSN: 215.0 Date: 5/22/2014

Tach: Hobbs: 215.0 TCSN: 131 TSO: CSO:

- Complied with a "A" inspection plus annual I.A.W. Socata MM Chapter 05-20-02, 05-20-05, and Pratt and Whitney PT6A-66D MM. All AD's checked through revision 2014-08; see AD compliance record provided with the airframe logbook.
2. Performed pre-maintenance borescope of engine first stage compressor blades I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72. The blades have very minor nicks in the root area that require blending I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.
 3. Complied with Pratt and Whitney SB 14474R1 by inspection of the engine oil condition for carbon particles (oil discoloration) I.A.W. Pratt and Whitney SB 14474R1. Oil color found to match that of Sample 3 from Figure 1 of Pratt and Whitney SB 14474R1.
 3. Blended first stage compressor blade roots I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.
 4. Borescoped through the exhaust duct drain I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72 and found the drain area looks clean and there is no drain tube to the EPA can.
 5. Complied with the C.T. disc desalination and compressor power recovery wash I.A.W. Pratt and Whitney PT6A-66D MM Chapter 71.
 6. Oil sample sent to Aviation Laboratories for analysis.
 7. Borescoped the engine first stage compressor blades post maintenance I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72. No changes noted between pre and post maintenance inspections.

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 10993

Date: 5/22/2014

Hobbs: 215

TTSN: 215

TLSN: 131

1. Complied with a "A" inspection plus annual I.A.W. Socata MM Chapter 05-20-02 and 05-20-05. All AD's checked through revision 2014-08; see AD compliance record provided with the airframe logbook.
2. Complied with AD 2002-19-01 by testing the pilot and co-pilot control wheels to assure they don't become jammed I.A.W. SB 70-095-27R01. No defects found at this time.
3. AD 2014-06-06 does not apply due to this airplane being Factory equipped with gear actuators having the P/N VSTS083560 (Socata P/N 7897340001).
4. Complied with SB 70-118R1-27 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Socata MM Chapter 27. Op checks good on the extension and retraction of the flaps.
5. Complied with the annual servicing of the oxygen system I.A.W. Socata MM Chapter 35. Op and leak checks good.
6. Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Socata MM Chapter 32; and lubricated landing gear axles I.A.W. Socata MM Chapter 12. No defects noted at this time. Op and leak checks good.
7. Complied with 12 month check of the slip clutch manual override for the B35, B36, B37, and B38 servo-actuators I.A.W. Socata MM Chapter 22-11-00, Page 602. No defects noted at this time. Op checks good.
8. Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects noted at this time. Battery next due replacement at 03/2018.
9. Complied with the 12 month or 600 hour capacity check of the lead acid battery P/N RG-980E/44, S/N 40581889 I.A.W. Concorde Document 5-0171/S.T.C. SA00775LA - Instructions for Continued Airworthiness. Op checks good.

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 10993

Date: 5/22/2014

Hobbs: 215

TTSN: 215

TLSN: 131

Balanced nose landing gear tire I.A.W. Socata MM Chapter 32. Op checks good.

11. Adjusted left and right spoiler and aileron cable tension and performed travel checks I.A.W. Socata MM Chapter 27. Op checks good.
12. Resealed left wing fuel panel 534 I.A.W. Socata MM Chapter 52. Leak checks good.
13. Adjusted secondary elevator stops to allow proper clearance I.A.W. Socata MM Chapter 27.
14. Removed and replaced propeller carbon beta block with new I.A.W. Socata MM Chapter 61.
15. Adjusted forward, vertical edge of main cabin door seal to eliminate pinching I.A.W. Socata MM Chapter 52.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 10993.

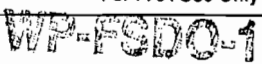
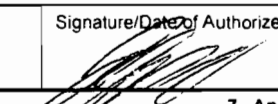
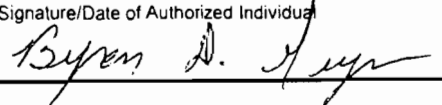
Byron D. Guy 5/22/14

Date

(LBID:10427)

For: FAA Approved Repair Station # X1IR595Y

W1901201407996

 U.S. Department of Transportation Federal Aviation Administration	MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 2/28/2011		Electronic Tracking Number
			For FAA Use Only		
					
INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))					
1. Aircraft	Nationality and Registration Mark N850FP		Serial No. 664		
	Make Socata		Model TBM 700	Series N	
2. Owner	Name (As shown on registration certificate) T1 LLC.		Address (As shown on registration certificate) Address 5255 N. Edgewood Dr. Ste 100 City Provo State UT Zip 84604 Country USA		
	3. For FAA Use Only: The data identified herein complies with applicable airworthiness requirements and is approved only for above described aircraft subject to conformity inspection by a person authorized in FAR 43.7 FAA Inspector, Van Nuys ESDO: <u>Jerry N. Dees</u> Date: <u>MAY 13 2014</u>				
4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
☐	☒	AIRFRAME	_____	(As described in Item 1 above)	_____
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type _____ Manufacturer _____		
6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		
Name <u>The New Avex Inc.</u>			☐ U.S. Certificated Mechanic ☐ Manufacturer		
Address <u>205 Durley Ave. Ste. A</u>			☐ Foreign Certificated Mechanic C. Certificate No.		
City <u>Camarillo</u> State <u>CA</u>			☒ Certificated Repair Station X11R595Y		
Zip <u>93010</u> Country <u>USA</u>			☐ Certificated Maintenance Organization		
D I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Extended range fuel per 14 CFR Part 43 App. B ☐		Signature/Date of Authorized Individual  05/22/2014			
7. Approval for Return to Service					
Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	☐ FAA Fit Standards Inspector	☐ Manufacturer	☐ Maintenance Organization	☐ Person Approved by Canadian Department of Transport	
	☐ FAA Designee	☒ Repair Station	☐ Inspection Authorization	Other (Specify)	
Certificate or Designation No. X11R595Y		Signature/Date of Authorized Individual  05/22/2014			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N850FP

05/22/2014

Nationality and Registration Mark

Date

This document describes the removal of left and right wing tip incandescent navigation and strobe light units and replacement with TSO-C96a class II and TSO-C30c Type II & III LED left and right wing tip incandescent navigation and strobe light units. The Installed LED lights meet the requirements of FAR's 23.1391, 23.1393, 23.1395, 23.1397, and 23.1401. Installation does not affect existing components or system as required by FAR 23.1301.

Instructions for Continued Airworthiness:

1. Introduction: Reference the above paragraph.
2. Description: Reference the above paragraph.
3. Control and Operation: Reference aircraft POH.
4. Servicing: N/A.
5. Maintenance: If any one led fails it must be repaired or replaced.
6. Troubleshooting: N/A.
7. Removal / Installation: Reference Whelen installation guide: Aviation models OR6002G, OR6002R P/N 01-0771733-11, 01-0771733-12 Orion 600 wingtip PTA.
8. Diagrams: Reference Whelen installation guide: Aviation models OR6002G, OR6002R P/N 01-0771733-11, 01-0771733-12 Orion 600 wingtip PTA.
9. Special Inspection Requirements: Inspect the lens, replace if excessive scratching, pitting, discoloration, or cracking.
10. Protective treatments: N/A.
11. Data: Reference Whelen installation guide: Aviation models OR6002G, OR6002R P/N 01-0771733-11, 01-0771733-12 Orion 600 wingtip PTA. TSO-C96a class II and TSO-C30c Type II & III, and FAR's 23.1391, 23.1393, 23.1395, 23.1397, 23.1401, and AC20-41A
12. Special Tools: N/A.
13. Commuter Category: N/A.
14. Recommended Overhaul: Units are "On Condition".
15. Airworthiness Limitations: N/A.
16. Revisions This Document may be revised by submitting a letter to the local FSDO along with a copy of the revised 337.

.....End Report.....

☐ Additional Sheets Are Attached

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A11467

Date: 3/17/2015

Tach:

Hobbs: 418.3

TTSN: 418.3

TLSN: 246

1. Complied with SB 70-215-34R1 by the upgrade of G1000 GDU software to v14.02 I.A.W. SB 70-215-34R1. Op checks good.
2. Complied with RVSM annual recurring inspection of the air data systems I.A.W. Socata MM Chapter 34-11-00-602 items 15, 16, 17, 18, 19, and 20 and owner operators approved RVSM manual. No defects noted at this time.
3. Complied with RVSM annual recurring inspection/check of the fairings I.A.W. Socata MM Chapter 57-10-00, Page 601 and 602, Items 6 and 7; and owner operators approved RVSM manual. No defects noted at this time.
4. Complied with RVSM annual recurring visual and functional checks of the altitude alerter system I.A.W. Socata MM Chapter 22-11-00 and owner operators approved RVSM manual. No defects noted at this time.
5. Complied with RVSM annual recurring fuselage inspection/check I.A.W. Socata MM Chapter 53-00-0-601 items 5, 6, 7, 8, 9, 10 and owner operators approved RVSM manual. No defects noted at this time.
6. Complied with RVSM annual recurring inspection of the autopilot altitude control system I.A.W. Socata MM Chapters 22 and 34. No defects noted at this time. Ops check good.
7. Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 004-32501-01. Op checks good.

The New AVEX, Inc.

C.R.S. X1IR595Y

Page 2 of 2

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A11467

Date: 3/17/2015

Tach:

Hobbs: 418.3

TTSN: 418.3

TLSN: 246

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A11467.

A handwritten signature in cursive script is written over a circular stamp. The stamp contains the text "AVEX", "3", and "A99" arranged vertically.

03/17/2015

Date

(LBID:11196)

For: FAA Approved Repair Station # X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 11466

Date: 3/13/2015

Tach: Hobbs: 418.3 TTSN: 418.3 TLSN: 246

1. Complied with a "B" inspection plus annual I.A.W. Socata MM Chapter 05-20-03 and 05-20-05. All AD's checked through revision 2015 - 04; see AD compliance record provided with the airframe logbook.
2. During Aircraft test flight oxygen altimetric valve failed to deploy the passenger oxygen masks, aircraft is limited to FL300 with passengers I.A.W. FAR 23.1447. Placard installed in aircraft.
3. Complied with AD 2002-19-01 by testing the pilot and co-pilot control wheels to assure they don't become jammed I.A.W. SB 70-095-27R01. No defects found at this time.
4. Complied with SB 70-118R1-27 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Socata MM Chapter 27. Op checks good on the extension and retraction of the flaps.
5. Complied with SB 70-214-53 by installation of a strake MOD70-0412-53 I.A.W. Socata SB 70-214-53. Op checks good.
6. Complied with the 24 month cleaning of the outflow and safety valve seats I.A.W. Socata MM Chapter 21. Op checks good.
7. Complied with the 24 month draining and filling of the refrigerant charge in the vapor cycle cooling system I.A.W. Socata MM Chapter 21. Op and leak checks good.
8. Complied with the 24 month or 600 hour replacement of the air-conditioning compressor belt with new I.A.W. Socata MM Chapter 21. Op checks good.
9. Complied with the 400 hour or 2 year fuel quantity gage low level sensor test of the left wing I.A.W. Socata MM Chapter 28. No defects found at this time.
10. Complied with the 400 hour or 2 year fuel quantity gage low level sensor test of the right wing I.A.W. Socata MM Chapter 28. No defects found at this time.
11. Complied with 12 month check of slip clutch manual override for B-35, B-36, B-37 and B-38 servo actuators I.A.W. Socata MM Chapter 22.

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 11466

Date: 3/13/2015

Tach:

Hobbs: 418.3

TTSN: 418.3

TLSN: 246

12. Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time. Battery next due replacement at 03/2018
13. Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Socata MM Chapter 32; and lubricated landing gear axles I.A.W. Socata MM Chapter 12. No defects noted at this time. Op and leak checks good.
14. Complied with the annual servicing of the oxygen system I.A.W. Socata MM Chapter 35. Op and leak checks good.
15. Complied with the 3 month or 200 hour capacity check of the lead acid battery S/N 40682757 I.A.W. Concorde Battery Corp. S.T.C. SA00775LA instructions for continued airworthiness. Capacity checks good.
16. Reviewed Pilot's Operating Handbook and Supplements for revision currency with reference to Technical Publication Status issued online by Socata. Pilot's Operating Handbook and Supplements current at this time.
17. Removed left wing de-ice boot distribution valve P/N P/N Z00.N6045807224 S/N N113793 and replaced with a servicable distrabution valve P/N Z00.N6045807224 S/N N081152. Performed ground function check to system I.A.W. Socata MM Chapter 30. Op and leak ckecks good.
18. Removed nose tire P/N 071-311-0 S/N 0005S10394 and replaced with nose tire P/N 071-311-0 S/N 4048S00104 I.A.W. Socata MM Chapter 32.
19. Removed the left main landing gear tire P/N 033-631-0 S/N 2269500293 and replaced with P/N 033-631-0 S/N 4220500204 I.A.W. Socata MM Chapter 32.
20. Removed the right main landing gear tire P/N 033-631-0 S/N 2270S00287 and repaced with tire P/N 033-631-0 S/N 4251S00166I.A.W. Socata MM C hapter 32.
21. Removed fuel panel #674 from the right hand wing to gain access to leaking rivet, removed

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 11466

Date: 3/13/2015

Tach:

Hobbs: 418.3

TTSN: 418.3

TLSN: 246

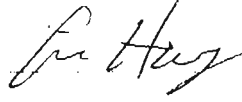
defective rivet and installed new rivet, reinstalled panel #674 using new gasket and new attaching hardware I.A.W. Socata MM Chapter 52 and 20. Leaks checked good.

22. Installed new vinyl tail numbers N850FP I.A.W. Socata MM Chapter 20.

23. Adjusted power lever I.A.W. Socata MM Chapter 76. Op checks good.

24. Removed and replaced the oil cooler in/out fitting o-rings I.A.W. Socata MM Chapter 79.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 11466.

 03/17/2015

Date

(LBID:11186)

For: FAA Approved Repair Station # X11R595Y

The New AVEX, Inc.

C.R.S. X11R595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 12020

Date: 10/22/2015

Tach:

Hobbs: 618

TTSN:

TLSN:

1. Removed cabin altitude barometric switch P/N N6027217249, S/N 3477 and installed a new cabin altitude barometric switch P/N N6027217249, S/N 3413 I.A.W. Socata MM Chapter 35. Op checks good.
2. Patched 18 small pin holes in the left wing center de-ice boot I.A.W. Socata MM Chapter 30. Op checks good.
3. Removed and replaced engine left center plenum bulkhead with new I.A.W. Socata MM Chapter 72

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 12020.

Repar D. Juyun 10/22/15
Date

(LBID:11668)

For: FAA Approved Repair Station # X11R595Y

The New AVEX, Inc.

C.R.S. X11R595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A12021

Date: 10/22/2015

Tach:

Hobbs: 618

TTSN:

TLSN:

1. Removed and replaced K20 relay with a serviceable unit I.A.W. Socata MM Chapter 23. Op checks good.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A12021.

Bryan D. Dwyer 10/22/15
Date

(LBID:11669)

For: FAA Approved Repair Station # X11R595Y

1. Approving Civil Aviation Authority / Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number 4401856	
4. Organization Name and Address Cessna Aircraft Company (PC4) Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218				5. Work Order/Contract/Invoice Number 1411566	
6. Item 17	7. Description SEALED LEA	8. Part Number RG380E/44	9. Quantity 1	10. Serial Number 40682757	11. Status/Work New
12. Remarks AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. PO# G14-15867					
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved 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 ☐ Other regulation specified in Block 12 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 Regulations, part 43 and in respect to that work, the items are approved for return to service.		
13b. Authorized Signature <i>Marilyn K. Farber</i>		13c. Approval/Authorization No. ODA-100129-CE		14b. Authorized Signature:	
13d. Name (Typed or Printed) MARILYN K. FARBER		13e. Date (dd/mm/yyyy) 04/NOV/2014		14c. Approval/Certificate No.:	
14d. Name (Typed or Printed):					
14e. Date (dd/mm/yyyy):					
User/Installer Responsibilities 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 higher 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.					

FAA Form 8130-3 (02/14) NSN 0052-00-012-8005

ITEM: 17 PN: RG380E/44
QTY: 1
U/M: EA
ORDER: 4401856
EFFECT: SEALED LEA

January 9, 2015
N850FP
TBM Socata 700
SN: 664
Hobbs: 387.0

1. Pulled battery RG380E/44 SN 40581889. Top charged and capacity checked. Battery failed at 44%. Top charged new battery RG380E/44 SN 40682757 and installed. Ref TBM AMM Chapter 24

I certify that this Aircraft is airworthy for the work performed.

Michael James
AP/IA 3053958



205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A12270

Date: 3/4/2016

: Hobbs: 706.4 TTSN: 706.4 TLSN: 419

1. Complied with the 24 month certification of the pilot, co-pilot and standby altimeters and static systems I.A.W. FAR 91.411. No defects found at this time. See test results provided with the airframe log book.
2. Complied with the 24 month certification of the transponder system I.A.W. FAR 91.413. No defects found at this time. See test results provided with the airframe log book.
3. Complied with SB 70-226-21 by A300 GAS controller software upgrade MOD 70-0454-21 of A300 controller P/N 82024A030601, S/N 82024-00362 and re-pinning of the A300 P4 connector I.A.W. Socata SB 70-226-21. Op checks good.
4. Complied with SB 70-227-34 by the removal of both GTX33 transponders P/N 011-00779-10 S/N's 89124016 and 89124100 and sent out for MOD per APO 8498. Re-installed and reconfigured units after upgrade I.A.W. B 70-227-34. Op checks good.
5. Complied with the ESI 2000 equipment 3 year / 1200 hour recurring structural inspections as outlined in Chapter 2 of L-3 Communications Drawing No. 0031-32504-01. No defects found at this time.
6. Complied with RVSM 24 month inspection of the Air Data Computer and pitot - static system I.A.W. Socata MM Chapter 34 and owner operators approved RVSM manual. No defects noted at this time.
7. Complied with RVSM 12 month inspection of the autopilot altitude control system I.A.W. Socata MM Chapters 22 and 34 and owner operators approved RVSM manual. No defects noted at this time.
8. Complied with RVSM Manual annually recurring visual and functional checks of the altitude alerter system I.A.W. Socata MM Chapter 22-11-00 and owner operators approved RVSM manual. No defects noted at this time.
9. Complied with RVSM annual recurring inspection of the air data systems I.A.W. Socata MM Chapter 34-11-00-602 items 15, 16, 17, 18, 19, and 20 and owner operators approved RVSM manual. No defects noted at this time.

The New AVEX, Inc.

C.R.S. X11R595Y

Page 2 of 2

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

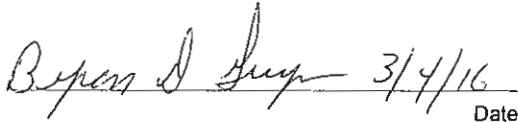
Work Order: A12270

Date: 3/4/2016

T: Hobbs: 706.4 TTSN: 706.4 TLSN: 419

10. Complied with RVSM annual recurring fuselage inspection/check I.A.W. Socata MM Chapter 53-00-0-601 items 5, 6, 7, 8, 9, 10 and owner operators approved RVSM manual. No defects noted at this time.
11. Complied with RVSM Manual annually recurring inspection/check of the fairings I.A.W. Socata MM Chapter 57-10-00, Page 601 and 602, Items 6 and 7, and owner operators approved RVSM manual. No defects noted at this time.
12. Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 004-32501-01. Op checks good.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A12270.

 3/4/16
Date

(LBID:12017)

For: FAA Approved Repair Station # X11R595Y

1. I certify that the Altimeter system and Altitude Reporting equipment have been tested and inspected as required by FAR 91.411 and found to comply with Appendix E of Part 43.
2. I certify that the Transponder(s) have been tested in accordance with 91.413 and meet the requirements of Part 43 Appendix F
3. Meets RVSM Compliance as per SOCATA MM.

Alt #1 PN:	<u>011-00916-10</u>	SN:	<u>86816743</u>
Alt. #2 PN:	<u>011-00916-10</u>	SN:	<u>86816805</u>
Xpdr #1 PN:	<u>011-00779-30</u>	SN:	<u>89124016</u>
Xpdr #2 PN:	<u>011-00779-30</u>	SN:	<u>89124100</u>
Alt Reporter PN:	<u>9200-32500-0021</u>	SN:	<u>1486</u>
Work Order #:	<u>A12270</u>	N#	<u>850FP</u>

Signed: Byron D. Aug Date: 3/4/16

Repairman Certificate: 3129336

AVEX
Aircraft Sales & Maintenance & Repairs
THE NEW AVEX, INC.

ARS13

205 Durley Ave, Ste A
Camarillo, CA 93010
C.R.S. X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 12269

Date: 3/7/2016

Tach:

Hobbs: 706.4

TTSN: 706.4

TLSN: 419

1. Complied with a "A" inspection plus annual I.A.W. Socata MM Chapter 05-20-02 and 05-20-05. All AD's checked through revision 2016-03; see AD compliance record provided with the airframe logbook.
2. Complied with AD 2002-19-01 by testing the pilot and co-pilot control wheels to assure they don't become jammed I.A.W. SB 70-095-27R01. No defects found at this time.
3. Complied with AD 2015-08-07 by verifying that the inflatable harnesses installed on both crew masks, left S/N B002527 and right S/N B002502, were not affected IAW Zodiac SB MXH-35-240, Revision 7; no further action required.
4. Complied with SB 70-118-27R1 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Socata MM Chapter 27. Op checks good on the extension and retraction of the flaps.
5. Complied with SB 70-221-32 by the replacement of ground safety micro switch assemblies and addition of clamp supports in the left and right hand wing locations I.A.W. SB 70-221-32. Op checks good.
6. Complied with SB 70-228-52R1 by the installation of new main landing gear lower doors MOD 70-0342-52 per technical instructions OPT70-K153-52 Rev 1. Op checks good.
7. Complied with the combination of Hartzell SB HC-SB-61-355R2 and Socata SB 70-214 by the installation of a strake for Hartzell 5 bladed HC-E5N-3C propeller I.A.W Combination of Hartzell SB HC-SB-61-355R2 and Socata SB 70-214. Op checks good.
8. Complied with the 3 year swing of the standby compass I.A.W. Socata MM Chapter 34. Updated the compass card and installed in the aircraft.
9. Complied with the 3 year replacement of the shimmy damper Pure Silicone 100 cST hydraulic fluid I.A.W. Socata MM Chapter 32. Op and leak checks good on ground taxi.
10. Complied with the 3 year replacement of the landing gear hydraulic fluid I.A.W. Socata MM Chapter

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 12269

Date: 3/7/2016

Tach:

Hobbs: 706.4

TTSN: 706.4

TLSN: 419

32. Op and leak checks good on ground swing of the landing gear system.
11. Complied with the 3 year replacement of the brake system hydraulic fluid I.A.W. Socata MM Chapter 32. Op and leak checks good on ground taxi.
12. Complied with the 600 hour replacement of the fuel unit filter element with new I.A.W. Socata MM Chapter 28. Op and leak checks good.
13. Complied with a 600 hour check of the alternator brushes and replaced them with new I.A.W. SIL-A-116 and Socata MM Chapter 24.
14. Complied with the 600 hour check of the starter generator brushes and removed and replaced with new I.A.W. Socata MM Chapter 24 and Thales SB 8012-24-004.
15. Complied with the 400 hour or 2 year fuel quantity gage low level sensor test of the left wing I.A.W. Socata MM Chapter 28. No defects found at this time.
16. Complied with the 400 hour or 2 year fuel quantity gage low level sensor test of the right wing I.A.W. Socata MM Chapter 28. No defects found at this time.
17. Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time. Battery next due replacement at 03/2018.
18. Performed 12 month check of the slip clutch manual override for the B35, B36, B37 and B38 servo actuators I.A.W. Socata MM Chapter 22. Op checks good.
19. Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Socata MM Chapter 32; and lubricated landing gear axles I.A.W. Socata MM Chapter 12. No defects noted at this time. Op and leak checks good.
20. Complied with the annual servicing of the oxygen system I.A.W. Socata MM Chapter 35. Op and leak checks good.
21. Complied with the 3 month or 200 hour capacity check of the lead acid battery S/N 40682757 I.A.W.

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 12269

Date: 3/7/2016

Tach: Hobbs: 706.4 TTSN: 706.4 TLSN: 419

Concorde Battery Corp. S.T.C. SA00775LA instructions for continued airworthiness. Capacity checks good.

22. Removed satellite phone antenna on top of fuselage P/N C1-490-1 S/N N/A and replaced with new P/N C1-490-490 S/N 507950 I.A.W. Socata MM Chapter 23. Op checks good.
23. Adjusted left and right spoiler cable tensions and performed travel checks I.A.W. Socata MM Chapter 27. Op checks good.
24. Adjusted the elevator trim cable tension I.A.W. Socata MM Chapter 27. Op checks good.
25. Removed and replaced the nose bearings and races with new I.A.W. Socata MM Chapter 32.
26. Removed and replaced left main landing gear brake pressure and back plate assemblies with reconditioned units I.A.W. Socata MM Chapter 32. Op checks good.
27. Removed and replaced right main landing gear brake pressure and back plate assemblies with reconditioned units I.A.W. Socata MM Chapter 32. Op checks good.
28. Removed left main landing gear tire P/N 033-631-0 S/N 4251500166 and replaced with new P/N 033-631-0 S/N 5233500218 I.A.W. Socata MM Chapter 32. Op and leak checks good.
29. Repaired a chip on right main landing gear upper door lower corner I.A.W. Socata MM Chapter 51.
30. Resealed left wing fuel tank access panel #534 I.A.W. Socata MM Chapter 52. Leak checks good.
31. Removed and reinstalled co-pilot oxygen mask P/N MC10-02-121 S/N B002502 after coming back from repair per APO 8506 I.A.W. Socata MM Chapter 35. Op checks good.
32. Removed left wing outboard deice boot from A/C. Removed skin P/N Z00.N6044507230 S/N T613109 and installed new skin P/N Z00N6044507230 I.A.W. Zodiac MM Chapter 30. Reinstalled deice boot I.A.W. Socata MM Chapter 30. Ops and leaks checked good.
33. Removed left wing middle de-ice boot from A/C. Removed skin P/N Z00.N6044507225 S/N T613748 and installed new skin P/N Z00.N6044507225 S/N T619375. Installed deice boot on the aircraft

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 12269

Date: 3/7/2016

Tach: Hobbs: 706.4 TTSN: 706.4 TLSN: 419

I.A.W. Socata MM Chapter 30. Op and leaks checked good.

34. Removed left wing inboard de-ice boot from A/C. Removed skin P/N Z00.N644507221 S/NT612858 and installed new skin P/N Z00.N6044507221 S/N T616256 I.A.W. Zodiac MM Chapter 30. Reinstalled de-ice boot on the A/C I.A.W. Socata MM Chapter 30. Ops and leaks checked good.
35. Removed right wing inboard deice boot from A/C. Removed skin P/N Z00N6044507220 S/N T612845 and installed new skin P/N Z00.N6044507220 S/N T615627 I.A.W. Zodiac MM Chapter 30. Installed deice boot on A/C I.A.W. Socata MM Chapter 30.
36. Removed right wing mid deice boot. Removed skin P/N Z00.N6044507224 S/N T612949 and installed new skin P/N Z00.N6044507224 I.A.W. Zodiac MM Chapter 30. Installed deice boot I.A.W. Socata MM Chapter 30.
37. Removed right wing outboard deice boot from A/C. Removed skin P/N Z00.N6001507232 S/N T613558 and installed new skin P/N Z00.N6001507232 S/N T613675 I.A.W. Socata MM Chapter 30. Installed deice boot I.A.W. Socata MM Chapter 30. Ops and leaks checked good.
38. Removed left horizontal stabilizer deice boot from A/C. Removed skin P/N Z00.N6044507227 S/N T613535 and installed new skin P/N Z00.N6044507227 S/N T617706 I.A.W. Zodiac MM 30-10-00. Installed deice boot I.A.W. Socata MM Chapter 30. Ops and leaks checked good.
39. Removed right horizontal deice boot from A/C removed skin P/N Z00.N6044507226 S/N T611936 and installed skin P/N Z00.N6044507226 S/N T612455. I.A.W. Zodiac MM 30-10-00. Installed deice boot I.A.W. Socata MM Chapter 30. Ops and leaks checked good.
40. Patched vertical stabilizer de-ice boot I.A.W. Socata MM Chapter 30. Op and leak checks good.
41. Removed and replaced beta block with new I.A.W. Hartzell MM Chapter 61.
42. Removed and replaced alternator belt with new I.A.W. Socata MM Chapter 21. Op checks good.
43. Removed cabin pressure sensor P/N CP0304 S/N 198 and replaced with new P/N CP0304 S/N 444 I.A.W. Socata MM Chapter 21.

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 12269

Date: 3/7/2016

Tach:

Hobbs: 706.4

TTSN: 706.4

TLSN: 419

44. Polished the pilots side window I.A.W. Socata MM Chapter 56.

45. Polished the pilots windshield I.A.W. Socata MM Chapter 56.

46. Polished the co-pilots windshield I.A.W. Socata MM Chapter 56.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 12269.

Byron D. Ferguson 3/7/16
Date

(LBID:12027)

For: FAA Approved Repair Station # X11R595Y

 U.S. Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 2/28/2011		Electronic Tracking Number	
		For FAA Use Only					
INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))							
1. Aircraft		Nationality and Registration Mark N850FP			Serial No. 664		
		Make Socata			Model TBM 700		Series N
2. Owner		Name (As shown on registration certificate) T1 LLC			Address (As shown on registration certificate) 5255 N EDGEWOOD DR STE 100 City PROVO State UT Zip 84604 Country USA		
3. For FAA Use Only							
4. Type		5. Unit Identification					
Repair	Alteration	Unit	Make	Model	Serial Number		
☐	☒	AIRFRAME	_____	(As described in Item 1 above)		_____	
☐	☐	POWERPLANT					
☐	☐	PROPELLER					
☐	☐	APPLIANCE	Type				
			Manufacturer				
6. Conformity Statement							
A. Agency's Name and Address Name The New Avex Inc. Address 205 Durley Ave. Ste. A City Camarillo State CA Zip 93010 Country USA				B. Kind of Agency ☐ U.S. Certificated Mechanic ☐ Foreign Certificated Mechanic ☒ Certificated Repair Station ☐ Certificated Maintenance Organization			
				☐ Manufacturer C. Certificate No. X11R595Y			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.							
Extended range fuel per 14 CFR Part 43 App. B ☐		Signature/Date of Authorized Individual 03/08/2016					
7. Approval for Return to Service							
Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED							
BY	☐ FAA Fit Standards Inspector	☐ Manufacturer	☐ Maintenance Organization		☐ Person Approved by Canadian Department of Transport		
	☐ FAA Designee	☒ Repair Station	☐ Inspection Authorization		Other (Specify)		
Certificate or Designation No. X11R595Y		Signature/Date of Authorized Individual 03/08/2016					

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N850FP

03/07/2016

Nationality and Registration Mark

Date

The following work was performed on this date:

Removed Hartzell 4 bladed propeller P/N HC-E4N-3/E9083S(K), S/N HH4773 and installed a Hartzell 5 bladed propeller P/N HC-E5N-3C/NC8834(K), S/N RJ199 I.A.W. Hartzell STC# SA03291CH. Performed a complete operational test and dynamic balance of propeller. Alteration does not adversely affect existing components or system as required by FAR 23.905 and 23.907. For further details reference W.O. 10908.

Instructions for Continued Airworthiness:

1. Introduction: Reference the above paragraph.
2. Description: Reference the above paragraph.
3. Control and Operation: Reference Hartzell AFMS 032513 and aircraft POH.
4. Servicing: Not Applicable. Hartzell owners manual 147 and Socata maintenance manual.
5. Maintenance: Reference Hartzell owners manual 147 and Socata maintenance manual.
6. Troubleshooting: Reference Hartzell owners manual 147 and Socata maintenance manual.
7. Removal / Installation: Reference Hartzell owners manual 147, Hartzell installation manual INST 032513 Rev. A and Socata maintenance manual.
8. Diagrams: Not Applicable.
9. Special Inspection Requirements: Propeller over torque or over speed, and lightning strike inspections Reference Hartzell owners manual 147, Hartzell ICA 032513, and Socata maintenance manual.
10. Protective treatments: Not Applicable.
11. Data: Reference Hartzell owners manual 147, Hartzell installation manual INST 032513 Rev. A, Hartzell ICA 032513, AFMS 032513, Hartzell SL HC-SL-6161Y, and Socata maintenance manual.
12. Special Tools: Reference Hartzell owners manual 147 and Hartzell installation manual INST 032513 Rev. A,
13. Commuter Category: Not Applicable.
14. Recommended Overhaul: Reference Hartzell owners manual 147 and Socata maintenance manual.
15. Airworthiness Limitations: Reference Hartzell owners manual 147, Hartzell ICA 032513, AFMS 032513, Hartzell SL HC-SL-6161Y, and Socata maintenance manual.
16. Revisions This Document may be revised by submitting a letter to the local FSDO along with a copy of the revised 337.

*****End Report*****

☐ Additional Sheets Are Attached

The New AVEX, Inc.

C.R.S. X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 12407

Date: 4/17/2016

Tach:

Hobbs:

TTSN:

TLSN:

1. Removed Landing gear control Box P/N LGCP 07-07 S/N 781 and replaced with new P/N N6003777257 S/N 874 I.A.W. Socata MM Chapter 32. Ops checked good.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 12407.

 4/17/16
Date

(LBID:12130)

For: FAA Approved Repair Station # X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A13061

Date: 3/18/2017

Tach: Hobbs: 924.4 TTSN: 924.4 TLSN: 562

1. Complied with RVSM 12 month inspection of the autopilot altitude control system I.A.W. Daher MM Chapters 22 and 34. No defects found at this time.
2. Complied with RVSM annual recurring fuselage inspection/check I.A.W. Daher MM Chapter 53-00-0-601 items 5, 6, 7, 8, 9, 10 and owner operators approved RVSM manual.
3. Complied with RVSM annual recurring inspection of the air data systems I.A.W. Daher MM Chapter 34-11-00-602 items 15, 16, 17, 18, 19, and 20 and owner operators approved RVSM manual. No defects noted at this time.
4. Complied with RVSM Manual annually recurring inspection/check of the fairings I.A.W. Daher MM Chapter 57-10-00, Page 601 and 602, Items 6 and 7; and owner operators approved RVSM manual. No defects noted at this time.
5. Complied with RVSM Manual annually recurring visual and functional checks of the altitude alerter system I.A.W. Daher MM Chapter 22-11-00 and owner operators approved RVSM manual. No defects noted at this time.
6. Complied with Daher SB 70-233-34R2 by upgrade of the Garmin G1000 software to GDU 15.11 I.A.W. Daher SB 70-233-34R2. Ops checked good.
7. Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 004-32501-01. Op checks good.
8. Confirmed the correct tail number is programmed in Artex ELT1000 P/N C406-1S/N 210-02983. 15 Digit: 2DC7574FC6FFBBFF country code 366.Op checks good.

The New AVEX, Inc.

C.R.S. X1IR595Y

Page 2 of 2

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A13061

Date: 3/18/2017

Tach:

Hobbs: 924.4

TTSN: 924.4

TLSN: 562

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A13061.



3/18/17

Date

(LBID:12969)

For: FAA Approved Repair Station # X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 13060

Date: 3/18/2017

Tach:

Hobbs: 924.4

TTSN: 924.4

TLSN: 562

1. Complied with a "C" inspection plus annual I.A.W. Daher MM Chapter 05-20-04 and 05-20-05. All AD's checked through revision 2017-04; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.
2. Complied with AD 2002-19-01 by testing the pilot and co-pilot control wheels to assure they don't become jammed I.A.W. SB 70-095-27R01. No defects found at this time.
3. Complied with SB 70-118-27R1 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Daher MM Chapter 27. Op checks good on the extension and retraction of the flaps.
4. Complied with the 5 year hydrostatic testing of the oxygen bottle by the removal of oxygen bottle P/N 2213-6519 S/N 652 and send for overhaul under APO 9314 .Reinstalled O2 bottle after receipt I.A.W. Daher MM Chapter 35. Op and leak checks good. Next due 03/2022.
5. Complied with the 1500 hour or 4 year check of the fuel flapper valves in the left wing I.A.W. Daher MM Chapter 28. No defects found at this time.
6. Complied with the 1500 hour or 4 year check of the fuel strainer in the left wing I.A.W. Daher MM Chapter 28. No defects found at this time.
7. Complied with the 1500 hour or 4 year check of the fuel strainer in the right wing I.A.W. Daher MM Chapter 28. No defects found at this time.
8. Complied with the 1500 hour or 4 year check of the fuel flapper valves in the right wing I.A.W. Daher MM Chapter 28. No defects found at this time.
9. Complied with the 24 month or 600 hour replacement of the air-conditioning compressor belt with new I.A.W. Daher MM Chapter 21. Op checks good.
10. Complied with the 24 month cleaning of the outflow and safety valve seats I.A.W. Daher MM Chapter 21. Op checks good.
11. Complied with the 24 month draining and filling of the refrigerant charge in the vapor cycle cooling

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 13060

Date: 3/18/2017

Tach:

Hobbs: 924.4

TTSN: 924.4

TLSN: 562

system with new I.A.W. Daher MM Chapter 21. Op and leak checks good.

12. Performed 12 month check of the slip clutch manual override for the B35, B36, B37 and B38 servo actuators I.A.W. Daher MM Chapter 22. Op checks good.
13. Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time. Battery next due replacement at 03/2018.
14. Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Daher MM Chapter 32; and lubricated landing gear axles I.A.W. Daher. MM Chapter 12. No defects noted at this time. Op and leak checks good.
15. Complied with the annual servicing of the oxygen system I.A.W. Daher MM Chapter 35. Op and leak checks good.
16. Reviewed Pilot's Operating Handbook and Supplements for revision currency with reference to Technical Publication Status issued online by Daher. Pilot's Operating Handbook and Supplements current at this time.
17. Resealed left wing fuel tank access panel #532 I.A.W. Daher MM Chapter 52. Leak checks good.
18. Resealed left wing fuel tank access panel #534 I.A.W. Daher MM Chapter 52. Leak checks good.
19. Resealed right wing fuel tank access panel #634 I.A.W. Daher MM Chapter 52. Leak checks good.
20. Re-rigged and checked travels of the left and right spoilers and ailerons I.A.W. Daher MM Chapter 27. Ops checked good
21. Adjusted elevator trim tab cable tension and checked travels I.A.W. Daher MM Chapter 27.
22. Re-rigged and checked travels of rudder trim tab I.A.W. Daher MM Chapter 27. Ops checked good
23. Removed and replaced the rudder trim hinges I.A.W. Daher MM Chapter 55. Ops checked good
24. Removed nose landing gear tire P/N 071-311-0 S/N 4084S00104 and replaced with new P/N 071-

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 13060

Date: 3/18/2017

Tach:

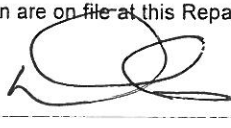
Hobbs: 924.4

TTSN: 924.4

TLSN: 562

- 311-0 S/N 6306S0045 I.A.W. Daher MM Chapter 32. Op and leak checks good.
25. Removed battery P/N RG380E144 S/N 40682757 and replaced with new battery P/M RG380E144 S/N 40851628 I.A.W. Daher MM Chapter 24. Ops checked good.
26. Installed a battery trickle charger I.A.W. AV-Wire harness Instructions and AC43.13-1B. Op checks good.
27. Removed and replaced the main door handle with new part and rigged handle I.A.W. Daher MM Chapter 52. Ops checked good
28. Adjusted pilot door seal and checked pressurization of cabin I.A.W. Daher MM Chapter 21 & 51. Ops checked good.
29. Removed and replaced carbon beta block with new I.A.W. Hartzell MM Chapter 61.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 13060.

 3/18/17

Date

(LBID:12967)

For: FAA Approved Repair Station # X1IR595Y

1. I certify that the Altimeter system and Altitude Reporting equipment have been tested and inspected as required by FAR 91.411 and found to comply with Appendix E of Part 43.
2. I certify that the Transponder(s) have been tested in accordance with 91.413 and meet the requirements of Part 43 Appendix F
3. Meets RVSM Compliance as per 34-11-00.

Alt #1 PN:	<u>011-00916-10</u>	SN:	<u>86816743</u>
Alt. #2 PN:	<u>011-00916-10</u>	SN:	<u>86816805</u>
Xpdr #1 PN:	<u>011-00779-30</u>	SN:	<u>89124016</u>
Xpdr #2 PN:	<u>011-00779-30</u>	SN:	<u>89124100</u>
Alt Reporter PN:	<u>9200-32500-0021</u>	SN:	<u>1486</u>
Work Order #:	<u>A13413</u>	N#	<u>N850FP</u>

Signed: [Signature] Date: 08/18/2017

Repair Station Certificate: X1IRS95Y



ARS13

205 Durley Ave, Ste A
Camarillo, CA 93010
C.R.S. X1IR595Y

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: A13417			Date: 8/30/2017
Tach:	Hobbs: 965.4	TTSN: 965.4	TLSN: 589

1. Complied with the 24 month certification of the pilot, copilot, and standby altimeters and static systems I.A.W. FAR 91.411. No defects found at this time. See test results provided with the airframe log book.
2. Complied with the 24 month certification of the transponder system I.A.W. FAR 91.413. No defects found at this time. See test results provided with the airframe log book.
3. Complied with RVSM 24 month inspection of the Air Data Computer and pitot - static system I.A.W. Daher MM Chapter 34. No defects found at this time.
4. Complied with RVSM 12 month inspection of the autopilot altitude control system I.A.W. Daher MM Chapters 22 and 34. No defects found at this time.
5. Complied with RVSM annual visual and functional checks of the altitude alerter system I.A.W. Daher MM Chapter 22-11-00. No defects noted at this time.
6. Complied with RVSM annual inspection of the air data systems I.A.W. Daher MM Chapter 34-11-00-602 items 15, 16, 17, 18, 19, and 20. No defects noted at this time.
7. Complied with RVSM annual fuselage inspection/check I.A.W. Daher MM Chapter 53-00-0-601 items 5, 6, 7, 8, 9, 10. No defects noted at this time.
8. Complied with RVSM annual inspection/check of the fairings I.A.W. Daher MM Chapter 57-10-00, Page 601 and 602, Items 6 and 7. No defects noted at this time.
9. Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 004-32501-01. Op checks good.

250 Durley Avenue, Suite A Camarillo, CA 93010 (805) 389-1188 Fax: (805) 389 - 3323

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: A13417			Date: 8/30/2017
Tach:	Hobbs: 965.4	TTSN: 965.4	TLSN: 589

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A13417.

Byron D. Guy 8/30/17

Date

(LBID:13426)

For: FAA Approved Repair Station #C.R.S. X1IR595

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: 13350			Date: 8/29/2017
Tach:	Hobbs: 965.4	TTSN: 965.4	TLSN: 589

1. Complied with a "A" inspection plus annual I.A.W. Daher MM Chapter 05-20-02 and 05-20-05. All AD's checked through revision 2017-17; see AD compliance record provided with the airframe logbook. Daher check list meets requirements of 14 CFR 43 Appendix D
2. Complied with AD 2002-19-01 by testing the pilot and co-pilot control wheels to assure they don't become jammed I.A.W. SB 70-095-27R01. No defects found at this time.
3. AD 2017-15-15, roll control primary stops, does not apply by aircraft S/N.
4. Complied with SB 70-118-27R1 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Daher MM Chapter 27. Op checks good on the extension and retraction of the flaps.
5. Complied with SB 70-236 by the removal of the MT50 cabin inlet temperature sensor P/N 93276A01000 S/N 93276-0036 with a new P/N 93276A020001 S/N 93276-20232 I.A.W. SB 70-236. Op checks good.
6. Complied with 5 year, and 1 year left main landing gear long life inspection I.A.W. CMM 32-10-01. Op and leak checks good. No defects noted at this time.
7. Complied with 5 year, and 1 year, right main landing gear long life inspections I.A.W. CMM 32-10-01. Op and leak checks good. No defects noted at this time.
8. Complied with 5 year, and 1 year, nose landing gear long life inspections I.A.W. CMM 32-20-01. Op and leak checks good. No defects noted at this time.
9. Complied with the 5 year replacement of L'HOTELLIER fire extinguisher by the removal of L'HOTELLIER fire extinguisher P/N 863520-00, S/N RM73323 and the installation of a new A334T fire extinguisher I.A.W. Daher MM Chapter 26.
10. Complied with the 400 hour or 2 year fuel quantity gage low level sensor test of the right wing I.A.W. Daher MM Chapter 28. No defects found at this time.
11. Complied with the 400 hour or 2 year fuel quantity gage low level sensor test of the left wing I.A.W.

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: 13350			Date: 8/29/2017
Tach:	Hobbs: 965.4	TTSN: 965.4	TLSN: 589

Daher MM Chapter 28. No defects found at this time.

12. Removed ELT battery P/N 452-0133 S/N 357886-017 and installed new P/N 452-0133 S/N 372319-022 I.A.W ME406 Artex Manual. Op checks good.
13. Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time. Battery next due replacement at 01/2022.
14. Complied with the 12 month or 200 hour capacity check of the lead acid battery S/N 40851628 I.A.W. Concorde Battery Corp. S.T.C. SA00775LA instructions for continued airworthiness. Capacity checks good.
15. Performed 12 month check of the slip clutch manual override for the B35, B36, B37 and B38 servo actuators I.A.W. Daher MM Chapter 22. Op checks good.
16. Complied with the annual servicing of the oxygen system I.A.W. Daher MM Chapter 35. Op and leak checks good.
17. Installed pilot door insulation I.A.W. N2 Aero Instillation Guide. And engineering Drawing number DERT-605279-NM, Copy of the 337 send to FAA, attached to work order and placed in log book.
18. Installed baggage mod I.A.W. AC 43.13.1B. Minor installation baggage weight limit does not change.
19. Removed and replaced seals on oil cooler in an out lines with new I.A.W. Daher MM Chapter 79. Leak checks good.
20. Adjusted and protected inertial seperator housing panel I.A.W. Daher MM Chapter 20. Op checks good.
21. Removed and replaced oil system capacity placard with new I.A.W. Daher MM Chapter 11.
22. Removed and replaced left aileron swivel bearing with serviceable unit I.A.W. Daher MM Chapter 27.
23. Adjusted left flap I.A.W. Daher MM Chapter 57. Op checks good.
24. Resealed right wing fuel inboard wing root I.A.W. Daher MM Chapter 52. Leak checks good.

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: 13350			Date: 8/29/2017
Tach:	Hobbs: 965.4	TTSN: 965.4	TLSN: 589

25. Adjusted right center flap carriage cover to keep from chaffing I.A.W. Daher MM Chapter 57.
26. Removed and replaced right aileron swivel bearing with serviceable unit I.A.W. Daher MM Chapter 27. Op checks good.
27. Removed left main landing gear tire P/N 033-631-0 S/N 5094S00320 and replaced with new P/N 033-631-0 S/N 6355S00263 I.A.W. Daher MM Chapter 32. Op and leak checks good.
28. Removed right main landing gear tire P/N 033-631-0 S/N 5233S00218 and replaced with new P/N 033-631-0 S/N 5084S00250 I.A.W. Daher MM Chapter 32. Op and leak checks good.
29. Cleaned and protected inner and outer nose wheel half I.A.W. Parker Haniffin CMM 40-270. Op checks good.
30. Removed and replaced nose wheel inner and outer bearings race with new I.A.W. Parker Haniffin CMM 40-270. Op checks good.
31. Removed and replaced bonding strap on nose strut torque link with new I.A.W. Daher MM Chapter 24.
32. Patched right horizontal stabilizer de-ice boot I.A.W. Aerazur CMM 30-10-00. Op and leak checks good.
33. Patched vertical stabilizer de-ice boot I.A.W. Aerazur CMM 30-10-00. Op and leak checks good.
34. Adjusted vacuum HG, I.A.W. Daher MM Chapter 37. Op checks good.
35. Removed and replaced pilot and co-pilot sun visor with new I.A.W. Daher MM Chapter 25.
36. Removed and replaced pilot seat forward plastic with new part IAW Daher MM 25.
37. Removed and replaced emergency door outside placard with new I.A.W. Daher MM Chapter 11.
38. Reviewed Pilot's Operating Handbook and Supplements for revision currency with reference to Technical Publication Status issued online by Daher. Pilot's Operating Handbook and Supplements current at this time.

250 Durley Avenue, Suite A Camarillo, CA 93010 (805) 389-1188 Fax: (805) 389 - 3323

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: 13350			Date: 8/29/2017
Tach:	Hobbs: 965.4	TTSN: 965.4	TLSN: 589

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 13350.

Byron A. Juy 8/29/17
Date

(LBID:13421)

For: FAA Approved Repair Station #C.R.S. X1IR595



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

OMB No. 2120-0020
Exp. 5/31/2018

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N850FP	Serial No. 664		
	Make DAHER	Model TBM700	Series N	
2. Owner	Name (As shown on registration certificate) T1 LLC		Address (As shown on registration certificate)	
			Address 69 WHITE PINE CANYON RD	
			City PARK CITY	State UT
			Zip 84060-6508	Country U.S.

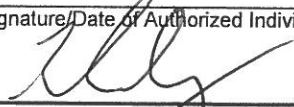
3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME	DAHER	(As described in Item 1 above)	664
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

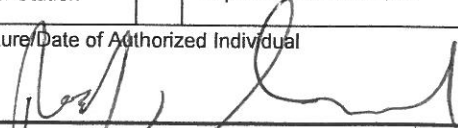
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No. X11R595Y
Name Avex inc.		☐ U. S. Certificated Mechanic		
Address 205 Durloy Ave		☐ Foreign Certificated Mechanic		
City Camarillo State CA		☒ Certificated Repair Station		
Zip 93010 Country U.S.		☐ Certificated Maintenance Organization		

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B ☐	Signature/Date of Authorized Individual  08/31/2017
--	---

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee ☒	Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. X11R595Y		Signature/Date of Authorized Individual  08/31/2017		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N850FP

08/29/2017

Nationality and Registration Mark

Date

Installed a thermal acoustic insulation package in the Pilots door only I.A.W. DER*8110-3 data package N2201-2 Revision D Master Data List Socata TBM Noise Reduction System, dated 10/16/2013, D10052 Revision A, Structural Substantiation Report for N22012102-501 Installation, dated 12/18/2012, and D10051 Revision B, N20021300-501 Weight and Balance Supplement, dated 12/18/2012. All installed materials are to meet requirements of FAR 23.860, FAR 25.856(a), and Appendix F to part 25. Aircraft weigh and balance information reviewed and found to negligible.

Instructions for Continued Airworthiness:

1. Introduction: Reference the above paragraph.
2. Description: Reference the above paragraph.
3. Control and Operation: Not Applicable.
4. Servicing: Not Applicable.
5. Maintenance: Not Applicable.
6. Troubleshooting: Not Applicable.
7. Removal / Installation: Replace with same or like equipment.
8. Diagrams: N2201-1, Revision E. Master Data List Socata TBM Noise Reduction System, dated 11/04/2016, D10052 Revision B, Structural Substantiation Report for N22012102-501 Installation, dated 11/23/2016, D10051 Revision C, Weight and Balance Supplement, N2002102-501 Installation, dated 11/23/2016.
9. Special Inspection Requirements: Annual inspection for security and integrity.
10. Protective treatments: Not Applicable.
11. Data: N2201-1, Revision E. Master Data List Socata TBM Noise Reduction System, dated 11/04/2016, D10052 Revision B, Structural Substantiation Report for N22012102-501 Installation, dated 11/23/2016, D10051 Revision C, Weight and Balance Supplement, N2002102-501 Installation, dated 11/23/2016.
12. Special Tools: Not Applicable.
13. Commuter Category: Not Applicable.
14. Recommended Overhaul: Not Applicable.
15. Airworthiness Limitations: Not Applicable.
16. Revisions This Document may be revised by submitting a letter to the local FSDO along with a copy of the revised 337.

*****End Report*****

☐ Additional Sheets Are Attached

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS			1. DATE August 29, 2017
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION			
2. MAKE SOCATA	3. MODEL NO. TBM 700	4. TYPE (<i>Airplane, Radio, Helicopter, etc.</i>) Airplane	5. NAME OF APPLICANT Avex, Inc
LIST OF DATA			
6. IDENTIFICATION N^c Aero Documents N2201-2, Revision E, Dated 11/04/2016 D10052, Revision B, Dated 11/23/2016 D10051, Revision C, Dated 11/23/2016 -----end-----	7. TITLE Master Data List SOCATA TBM Noise Reduction System Structural Substantiation Report for N22012102-501 Installation Weight and Balance Supplement for N22012102-501 Installation NOTES: 1. This approval is for the engineering design data only. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements". This form does not constitute FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration. 2. This approval issued in support of alteration and is applicable to SOCATA TBM-700 aircraft, serial number 664, N850 FP only 3. This approval covers structural design and analysis aspects only 4. This approval covers engineering data only and is not an installation approval End-----end-----end-----end		
8. PURPOSE OF DATA To show compliance with applicable Federal Airworthiness Regulations for the alteration performed on SOCATA TBM-700 aircraft, serial number 664, N850 FP only, via FAA Form 337			
9. APPLICABLE REQUIREMENTS (<i>List specific sections</i>) 14 CFR Part 23 §§ 23.23(b), Amdt 23-0; 23.29(b), Amdt 23-21; 23.301, Amdt 23-28; 23.303, Amdt 23-0; 23.365(e), Amdt 23-0; 23.561(a)(b)(d), Amdt 23-44; 23.601, Amdt 23-0; 23.603, Amdt 23-23; 23.605, Amdt 23-23; 23.609, Amdt 23-0; 23.611, Amdt 23-0; 23.613, Amdt 23-23			
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and attached sheets numbered none have been examined in accordance with established procedures and found to comply with applicable requirements of <u>the Airworthiness Standards</u> listed.			
I (We) Therefore ☐ ☒ Recommend approval of these data Approve these data			
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)	12. DESIGNATION NUMBER(S)	13. CLASSIFICATION (S)	
Edward Kats <i>Edward Kats</i>	DERT-605279-NM	Structures	



Master Data List Socata TBM 700 Noise Reduction System

Document No.

N2201

Revision / Date

E / 2016-11-04

PROPRIETARY AND CONFIDENTIAL INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES OR ANY OTHER PURPOSE WITHOUT THE EXPRESS WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

 N²Aero CAGE: 66A84	MASTER DATA LIST SOCATA TBM 700 NOISE REDUCTION SYSTEM		No.	N2201
			Revision	E
			Sheet No.	2 of 5

REVISIONS		
REV LTR	DATE	DESCRIPTION
-	2012-08-28	INITIAL RELEASE PER ECO-9145
A	2012-09-17	REVISIONS PER ECO-9169
B	2012-12-18	REVISIONS PER ECO-9229
C	2013-10-16	REVISIONS PER ECO-9563
D	2016-03-18	REVISIONS PER ECO-10717
E	2016-11-04	REVISIONS PER ECO-11021

PROPRIETARY, CONFIDENTIAL, AND/OR TRADE SECRET INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

 N²Aero CAGE: 66A84	MASTER DATA LIST SOCATA TBM 700 NOISE REDUCTION SYSTEM		No.	N2201
			Revision	E
			Sheet No.	3 of 5

CONFIGURATIONS			
MDL CONFIGURATION	TOP DRAWING	TOP PART NO.	COMMENT
-1	N22011002	N22011002-501	APPLICABLE TO TBM 700
-2	N22011102	N22011102-509	APPLICABLE TO TBM 700 (PILOT DOOR ONLY)
-3	N22011103	N22011103-501	APPLICABLE TO TBM 700 (ECS ONLY)

PROPRIETARY, CONFIDENTIAL, AND/OR TRADE SECRET INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

 N²Aero CAGE: 66A84	MASTER DATA LIST SOCATA TBM 700 NOISE REDUCTION SYSTEM	No. N2201
		Revision E
		Sheet No. 4 of 5

DWG/DOC NO.	REV	DATE	TITLE	MDL CONFIGURATION		
				-1	-2	-3
INSTALLATION DRAWINGS						
N22011102	D	2016-03-18	INSTALLATION, SOCATA TBM FUSELAGE NOISE REDUCTION SYSTEM	X	X	
N22011103	B	2016-11-04	INSTALLATION, SOCATA TBM AIR DISTRIBUTION NOISE REDUCTION SYSTEM			X
OTHER CONTROL DRAWINGS AND DOCUMENTS						
N22012102	D	2015-03-03	INSULATION BLANKETS N2201 MODEL SERIES	X	X	
N01010002	-	2011-05-09	INLINE DUCT TRANSITION			X
N01010028	-	2015-08-04	RIGID COUPLER, SLS PRINTED			X
N01010505	-	2014-04-22	DUCT ASSEMBLY, AIR SYSTEM, CONVOLUTED FOAM			X
N010106	B	2015-12-03	SILENCER, FLEXIBLE SHELL, VARIABLE DIAMETER, LENGTH AND END CONFIGURATION			X
N01011	F	2014-07-14	INSULATION BLANKET ASSEMBLY, BASIC SHAPES, VARIABLE	X	X	
N01012001	C	2015-02-24	BLANKET, ACOUSTIC, .38" THK	X		
N01012008	-	2011-03-18	BLANKET, ACOUSTIC, 1.88" THK	X		
N01012013	-	2012-08-27	BLANKET, ACOUSTIC, 2.38" THICKNESS	X	X	
N01012014	-	2012-08-27	BLANKET, ACOUSTIC, 0.63" THICKNESS	X		
N01012017	-	2013-03-27	BLANKET, ACOUSTIC, 0.22" THICK	X		
N01014001	-	2011-03-18	TAPE, INSULATION SEALING	X	X	
N01014003	-	2011-03-18	TAPE, DOUBLE SIDED, FILM SUBSTRATE, SILICONE/ACRYLIC ADHESIVE	X		
N01014005	-	2011-03-18	TAPE, DOUBLE-SIDED, WOVEN SUBSTRATE, ACRYLIC/ACRYLIC ADHESIVE	X		
N01015001	-	2011-03-18	BATTING, FIBERGLASS, AA WRP, 0.60 PCF	X	X	

PROPRIETARY, CONFIDENTIAL, AND/OR TRADE SECRET INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

 N²Aero CAGE: 66A84	MASTER DATA LIST SOCATA TBM 700 NOISE REDUCTION SYSTEM		No.	N2201
			Revision	E
			Sheet No.	5 of 5

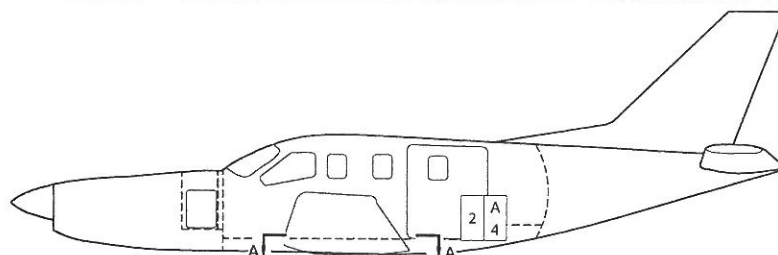
DWG/DOC NO.	REV	DATE	TITLE	MDL CONFIGURATION		
				-1	-2	-3
N01015002	-	2011-03-18	BATTING, FIBERGLASS, AA WRP, 1.60 PCF	X		
N01015003	A	2013-03-27	BATTING, FIBERGLASS, AA WRP, 3.50 PCF	X	X	
N01015004	-	2011-03-18	BATTING, FIBERGLASS, AA WRP, 0.42 PCF	X	X	
N01015101	A	2013-12-19	FILM, REINFORCED, THERMAL ADHESIVE	X	X	
N01015202	-	2011-03-18	FOAM, PVC/NBR/CR	X		
N01015210	-	2012-02-22	COMPOSITE ACOUSTIC SEAL	X	X	
N01015211	-	2012-08-27	COMPOSITE THERMAL/ACOUSTIC SEAL	X		
N01015212	-	2012-08-27	BRUSHED FLEECE KNIT, PFR RAYON, ALUMINIZED	X		
N01015301	-	2011-03-18	ACOUSTIC BARRIER, CAST UNREINFORCED	X	X	
N01015401	A	2013-07-17	ACOUSTIC BARRIER, CALENDERED	X		
N02020001	-	2011-03-18	INSULATION BLANKET ASSEMBLY	X	X	
N03010002	J	2015-06-25	SPECIAL PROCEDURES FOR MODIFICATION OF FLAME PROPAGATION RESISTANT INSULATION BLANKET SYSTEM	X		
N03010004	C	2015-02-23	INSTALLATION PROCEDURES FOR INSULATION BLANKET SYSTEMS	X		
N03030004	B	2016-08-03	INSTALLATION OF MUFFLER AND DUCTING SYSTEMS			X
D10051	B	2012-12-18	WEIGHT AND BALANCE ANALYSIS, N22011102-501 CABIN INTERIOR NOISE REDUCTION SYSTEM	X	X	
D10052	A	2012-12-18	STRUCTURAL SUBSTANTIATION, N22011102-501 CABIN INTERIOR NOISE REDUCTION SYSTEM	X	X	

PROPRIETARY, CONFIDENTIAL, AND/OR TRADE SECRET INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

PROPRIETARY AND CONFIDENTIAL INFORMATION
THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

REVISION HISTORY				
REV	DESCRIPTION	INCRP BY	DATE	CHECKED
-	INITIAL RELEASE PER ECO-9971	NS	3/4/2015	GAN
A	RELEASE PER ECO-10330	NS	6/4/2015	GAN
B	RELEASE PER ECO-11016	DJM	11/4/2016	NS



-501, INSTALLATION

SCALE: NONE

1					N01010505-12-06	DUCT	(ALT. N01010505-16-06 DUCT. W/ 2X N0101002-121606 TRANSITION)	22
1					N01010505-12-34	DUCT	(ALT. N01010505-16-30 DUCT)	21
1					N010106AA-12-21	SILENCER	(ALT. N010106AA-16-24 SILENCER)	20
2					MS3367-2-0	TIEDOWN STRAP		19
X					-807	1.5" DIA ROUTE, LH, AIR DEFROST	(ALT. 2.0 DIA SILENCER AND DUCT ROUTE)	18
	2				N01010505-12-06	DUCT	(ALT. 2X N01010505-16-06 DUCT. W/ 2X N0101002-121606 TRANSITION)	17
	1				N010106AA-12-21	SILENCER	(ALT. N010106AA-16-24 SILENCER)	16
	2				MS3367-2-0	TIEDOWN, STRAP		15
	X				-805 	1.5" DIA ROUTE, RH, AIR DEFROST	(ALT. 2.0 DIA SILENCER AND DUCT ROUTE)	14
		1			N01010505-16-24	DUCT		13
		1			N01010505-16-48	DUCT		12
		1			N010106AA-16-24	SILENCER		11
		4			MS3367-2-0	TIEDOWN, STRAP		10
		X			-803 	2" DIA ROUTE, LH, ECS		9
			1		N01010028-16	COUPLER		8
			2		N01010505-16-06	DUCT		7
			1		N010106AA-16-24	SILENCER		6
			1		N01010505-16-48	DUCT		5
			4		MS3367-2-0	TIEDOWN STRAP		4
			X		-801	2" DIA. ROUTE, RH, ECS		3
				X	-501	INSTALLATION - AIR DISTRIBUTION		1
-807	-805	-803	-801	-501	PART NUMBER	NOMENCLATURE	MATERIAL DESC/MFR	INDEX

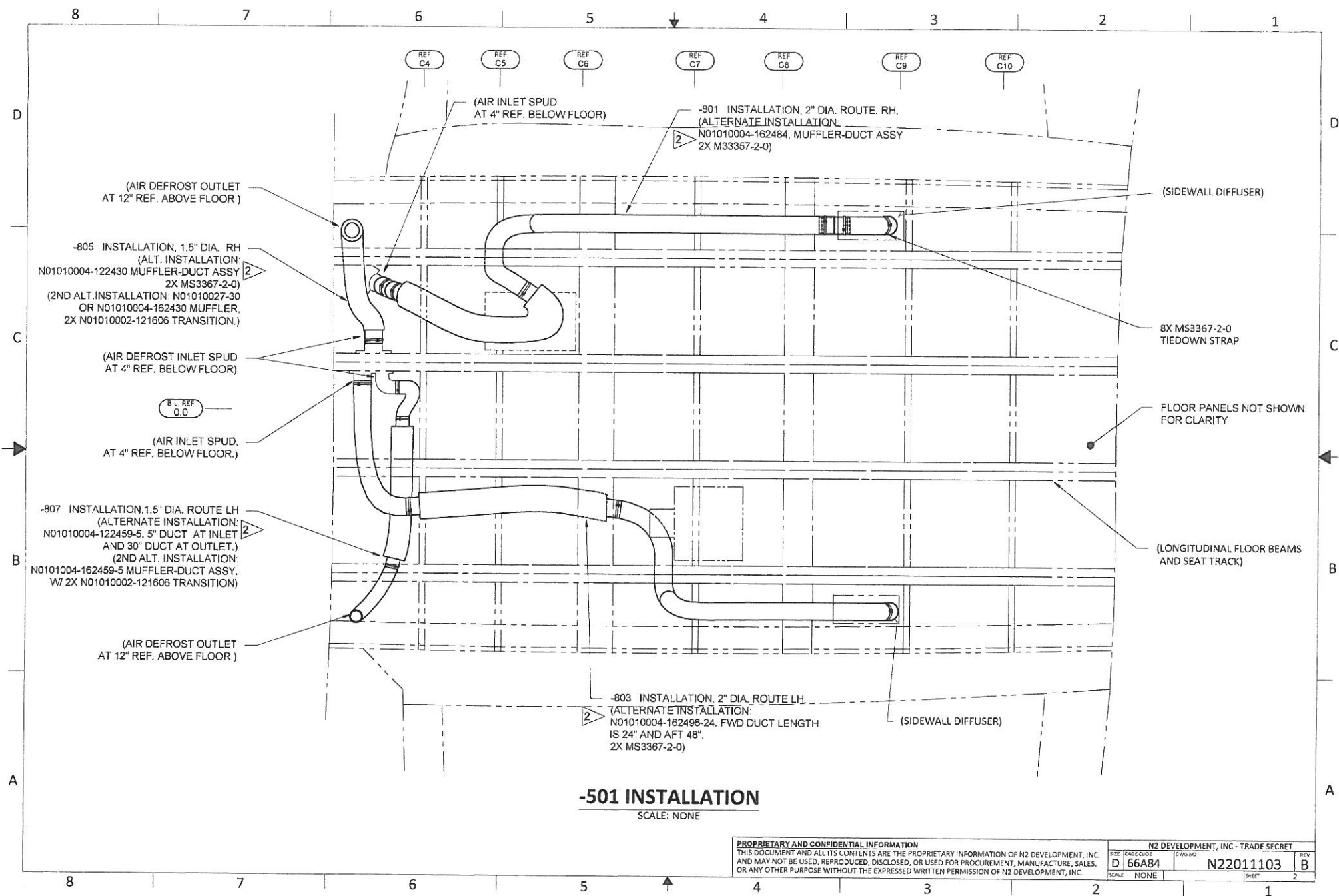
PARTS LIST

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLES ± 30° X.12 .00 ± .03 .000 ± .010 INTERPRET DIM AND TOL PER ASME Y14.5M-1994 1:100 SCALE DRAWING		CONTRACT NO. 		MATERIAL FINISH TREATMENT SIMILAR TO		INIT APPROVALS DATE		INIT APPROVALS DATE		 N'Aero N2 DEVELOPMENT, INC. - TRADE SECRET TITLE INSTALLATION: MODEL N2201-1 AIR DISTRIBUTION	
THIRD ANGLE PROJECTION		NDT ASSY USED ON APPLICATION				NS DES ACTIVITY 2015-03-04		GAN QUALITY 2015-03-04		SIZE D 66A84 SCALE NONE SHEET 1 OF 3	

10) PERMISSIBLE TO INTERCHANGE THE 1 1/2" DIAMETER, AIR DEFROST ROUTES, WITH A 2" DIA ROUTE.

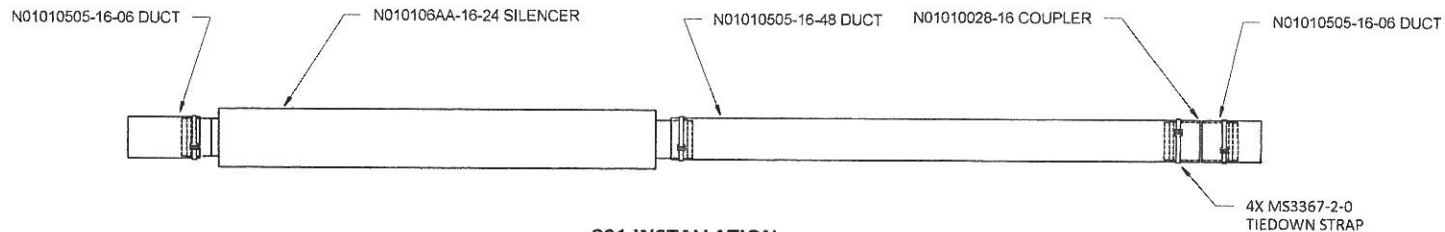
-805 INSTALLATION: N010106AA-16-24 SILENCER, 2X N01010505-16-05 DUCT, 2X N01010002-121606 TRANSITION.

-807 INSTALLATION: N010106AA-16-24 SILENCER, N01010505-16-06 DUCT, N01010505-16-30 DUCT, 2X N01010002-121606 TRANSITION)

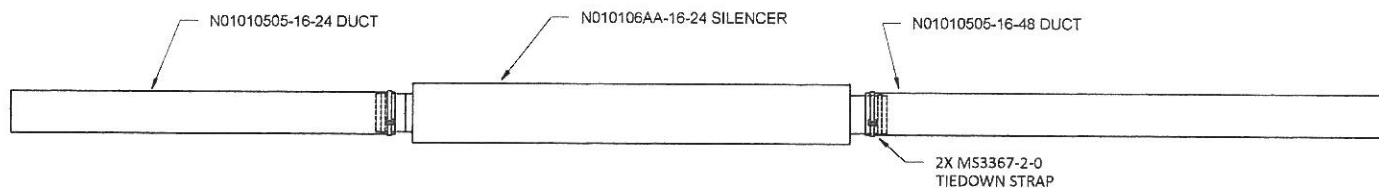


PROPRIETARY AND CONFIDENTIAL INFORMATION			
THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT, INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES, OR ANY OTHER PURPOSE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.			
SIZE	D	SCALE CODE	66A84
SCALE	NONE	ENGINEERING	N22011103
REV	B	SHEET	2

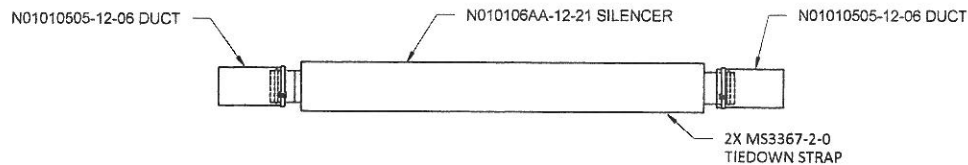
N2 DEVELOPMENT, INC. - TRADE SECRET



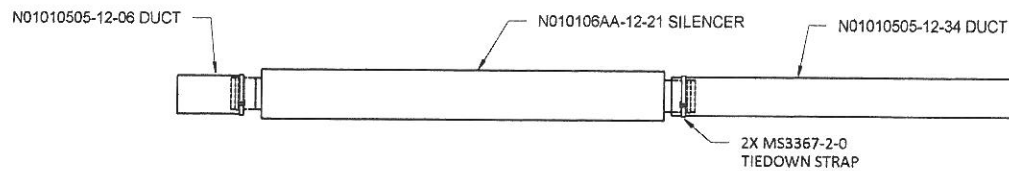
-801 INSTALLATION
SCALE: NONE



-803 INSTALLATION
SCALE: NONE



-805 INSTALLATION
SCALE: NONE



-807 INSTALLATION
SCALE: NONE



Structural Substantiation Report for N22011102-501 and N22011103-501 Installation

Title 14 CFR Part 23 Subpart C Compliance Evaluation

- §23.301 Loads
- §23.303 Factor of Safety
- §23.561(a)(b) Emergency Landing Conditions - General

Document No.

D10052

Revision / Date

B / 2016-11-23

PROPRIETARY AND CONFIDENTIAL INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES OR ANY OTHER PURPOSE WITHOUT THE EXPRESS WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.

Title:	Structural Substantiation of N22011102-501 and N22011103-501 Installation in the TBM-700/850 Aircraft
Document No.	D10052
Revision/Date:	B / 2016-11-23
Page:	1 of 10

**N2 DEVELOPMENT
PROPRIETARY INFORMATION**

SEE PROPRIETARY STATEMENT
ON COVER PAGE



Revision History

REV LETTER	DESCRIPTION	APPROVAL/DATE
-	INITIAL RELEASE	GAN / 2012-08-27
A	REVISED PER ECO-9231	GAN / 2012-12-18
B	ADDED N22011103-501 CONFIGURATION PER ECO-11038	GAN / 2016-11-23

Title: Structural Substantiation of N22011102-501 and N22011103-501
Installation in the TBM-700/850 Aircraft
Document No. D10052
Revision/Date: B / 2016-11-23
Page: 2 of 10

**N2 DEVELOPMENT
PROPRIETARY INFORMATION**
SEE PROPRIETARY STATEMENT
ON COVER PAGE



Table of Contents

1	References	4
2	Introduction	4
3	Compliance Analysis by CFR Section.....	5
3.1	§23.301 – Determination of Critical Load Criteria	5
3.1.1	Insulation Blankets Taped to Stringers and Frames –Downward Load	5
3.1.2	Padding taped to main deck floor panels – Upward Load.....	6
3.1.3	Mufflers and duct secured to existing duct stubs – Forward Load	6
3.2	§23.303 Determination of Factor of Safety	6
3.3	§23.561(a)(b) General	7
3.3.1	§23.561(a)	7
3.3.2	§23.561(b)	7
4	Evaluation Methods and Calculations	8
4.1	Case 3.1.1 –Strength of Blanket Tape Attachment	8
4.2	Case 3.1.2 – Strength of Carpet and Pad Attachment	8
4.3	Case 3.1.3 – Strength of the Muffler/Duct to Spud Attachment	9
5	Margin of Safety Summary	10



1 References

Weight and Balance Analysis of the N22011102-501 and N22011103-501 Installation in the TBM-700/850, N2 Aero Document D10051, latest approved revision.

2 Introduction

This report is written to demonstrate compliance to the applicable sections of Title 14 CFR Part 23, Subpart C for the N22011102-501 and N22011103-501 Cabin Interior Noise Reduction System Installation on the Socata TBM-700/850 aircraft.

The applicable sections are reproduced below for reference.

Section	Title	Amendment
§23.301	Loads.	23-28
§23.303	Factor of safety.	23-0
§23.365	Pressurized compartment loads.	23-0
§23.561 (a)(b)	General.	23-34



3 Compliance Analysis by CFR Section

3.1 §23.301 – Determination of Critical Load Criteria

The system has been evaluated to determine the critical load criteria for each subsystem in the installation as follows.

The following table summarizes the inertial load factors used in this Report. Load factors are considered separately per Title 14 CFR§23.561(b).

- A positive Nx load factor indicates a load in the forward direction.
- A positive Ny load factor indicates a load in the right-hand direction.
- A positive Nz load factor indicates a load in the downward direction.

Inertial Load Factor Summary			
Description	Nx	Ny	Nz
Forward	+9.0	0.0	0.0
Down	0.0	3.0	0.0
Up	0.0	0.0	-3.0
Side (Left and Right)	0.0	1.5	0.0

The N22101102-501 Cabin Interior Noise Reduction Kit is comprised of multiple noise-reducing treatments installed throughout the fuselage. The Kit configuration is controlled by Drawing No. N22011102. Detail drawing revision levels are as stated on Master Data List N2201, latest approved revision.

The N22011103-501 Environmental Control System Noise Reduction Kit is comprised of a series of mufflers and ducts that replace the OEM ducting in four locations. The Kit configuration is controlled by Drawing No. N22011103. Detail drawing revision levels are as stated on Master Data List N2201, latest approved revision

The fuselage primary structure and any other installation surfaces are not modified in any way.

Installation Drawings		
Drawing No.	Title	Type of Installation
N22011102	Installation – Model 2201-1 Noise Reduction System	See 3.1.1 and 3.1.2
N22011103	Installation – Model N2201-1 ECS Noise Reduction System	See 3.1.3

3.1.1 Insulation Blankets Taped to Stringers and Frames –Downward Load

These installations are secured to the fuselage longerons with N01014005 tape along their vertical edges and at other points as required to keep the components in their



specified locations. Furthermore, blankets fit snugly between and are contained by adjacent fuselage frames and intercostals.

The blankets apply a uniform tension load into the tape bond. The failure mode for this condition results when the tension load exceeds the maximum allowable peel strength of the tape and causes it to peel from the substrate. The maximum load occurs when the installation is subject to the forward load condition.

3.1.2 Padding taped to main deck floor panels – Upward Load

These installations are secured to the main deck floor panels with N01014005 series double-face tape.

N22011102-501 defines the installation of an acoustically absorbent carpet padding material to the floor panels. In order to install the material, strips of self-adhesive tape are applied to the floor panels. No modifications are made to the floor panels or their method of installation.

Vertical loads in the UP direction and horizontal loads in any direction are applied directly to floor panels via strips of self-adhesive tape applied at a minimum area ratio of 1:6 tape to padding material. Vertical loads in the DOWN direction are reacted directly by floor panels via evenly distributed direct contact.

The failure mode for these installations occurs when sufficient force is present to peel the tape from either the pad or the floor. This occurs when the installation is subject to the upward load condition.

3.1.3 Mufflers and duct secured to existing duct stubs – Forward Load

These installations are secured to existing duct stubs using MS3367-2-0 tiedown straps. All components are located either forward of and behind the instrument panel or below the floor. No components are in the passenger area.

All loads are reacted by the tiedown strap connecting the duct or muffler to the duct stub.

The failure mode for these installations occurs when sufficient force is present to pull the duct or muffler assembly off the existing rigid duct stub. This occurs when the installation is subject to the forward load condition.

3.2 §23.303 Determination of Factor of Safety

The critical load cases identified in Section 3.1 above are all categorized as “ultimate” loads per §22.561(b)(2). Additional factors of safety are thus not required to be applied per §22.303.



3.3 §23.561(a)(b) General

3.3.1 §23.561(a)

The N22011102-501 and N22011103-501 installation does not impact the ability of the airplane to protect occupants under emergency landing conditions on land or water. It does not add or modify any emergency equipment, and thus it does not change the basic aircraft's compliance to §23.561(a).

3.3.2 §23.561(b)

Each of the critical load criteria determined in 3.1 has been evaluated in order to determine compliance to 23.561(b). Critical load criteria have been selected for evaluation in such that they will represent the worst-case conditions for each representative installation, and thus satisfy the criteria for the remaining load criteria.

Refer to Section 4 of this report for a summary margin of safety table.



4 Evaluation Methods and Calculations

4.1 Case 3.1.1 –Strength of Blanket Tape Attachment

The tension loads are determined by selecting the attachment securing the highest mass per inch of taped seam and multiplying by the specified load factor. This method is considered to be conservative, as it assumes the entire load is reacted by the tape on a single edge with the minimum amount of tape (10”), whereas most installations are taped on one or more edges.

As the quantity of tape is consistent for each installed blanket, the heaviest blanket subject to the highest load factor was used to determine the critical load case. The blanket (N22102102-1347, 2.735 Lb.) was selected based on the calculated weight determined in D10051, Weight and Balance Report.

$$\begin{aligned} \text{Peel Load in Tape Bond} &= \frac{(\text{Weight of Secured Component in Lbs.}) * (\text{Load Factor})}{\text{Length of Taped Seam in Inches}} = \frac{2.735 * 9.0}{10} \\ &= 2.051 \text{ lbs/in} \end{aligned}$$

The margin of safety was determined by dividing the minimum peel strength as defined in the manufacturer’s specification sheet for the tape (MFR P/N P-55B) as listed in Appendix “A” to this report by the peel load multiplied by a peel factor of 2.00.

$$M.S. = \frac{\text{Peel Strength}}{\text{Peel Load} * 2.00} - 1 = \frac{6.56}{4.92} - 1 = 0.33$$

4.2 Case 3.1.2 – Strength of Carpet and Pad Attachment

(a) Floor Panel / Carpet Padding Interface

The carpet weight is .00169lb/in² (35oz/yd²) and the pad weight is .00273 lb./in².

The joint between the floor and the carpet pad sustains the highest stresses as it reacts loads imposed by both the carpet and the pad.

Here 5510 in² of carpet pad is secured by 800in of tape capable of reacting forces in the x, y, and z directions.

The tensile stress in the tape joint is represented by the following formula:

$$\begin{aligned} \text{Peel Load in Taped Bond} &= \frac{(\text{Weight of Padding+Carpet})}{\text{Length of Taped Seam in Inches}} * \text{Load Factor} = \\ \frac{5510 \text{ in}^2 * \frac{.004415 \text{ lb}}{\text{in}^2}}{800 \text{ in}} * 9.0 &= .274 \text{ lbs/in} \end{aligned}$$



The margin of safety was determined by dividing the minimum peel strength as defined in the manufacturer's specification sheet for the tape (MFR P/N P-55B) as listed in Appendix "A" to this report by the peel load multiplied by a peel factor of 2.00.

$$M.S. = \frac{\text{Peel Strength}}{\text{Peel Load} * 2.00} - 1 = \frac{6.56}{.274} - 1 = 10.97 \text{ (HIGH)}$$

4.3 Case 3.1.3 – Strength of the Muffler/Duct to Spud Attachment

The -801 installation represents the longest and heaviest duct route at approximately 84" long and .86 lbs. It consists of the following components.

Component	Weight
N01010505-16-06 Duct (2)	0.12 (0.06x2)
N01010505-16-48 Duct (1)	0.25
N010106AA-16-24 Muffler (1)	0.45
N01010028-16 Coupler (1)	0.04
<i>Total Weight</i>	<i>0.86</i>

Assuming that only one attached end of the route will react the entire load, the maximum load that the interface can see is calculated as the total weight multiplied by the forward load factor.

$$\text{Axial load in } \frac{\text{duct}}{\text{stub}} \text{ interface} = 0.86 * 9 = 7.74 \text{ lbs}$$

The duct/stub interface has been determined by internal company test to be able to withstand at least 16.7 lbs. of axial load. The margin of safety is determined as follows.

$$M.S. = \frac{\text{Maximum axial load}}{\text{Axial Load}} - 1 = \frac{16.7}{7.74} - 1 = 1.16$$



5 Margin of Safety Summary

Note that margin of safety calculations equal to or greater than 5.0 are presented as "High" in the following tables. Margin of safety calculations less than or equal to +.25 are presented in bold type.

Load Case (See Section 3.1)	Ref. Installations	Load Condition	Failure Mode	Location	MS
3.1.1	N22011102-501 (Insulation Blankets)	Forward, Downward, Upward, Side	Tension (180° Peeling of adhesive tape)	Main Cabin Sidewalls and Crown	0.33
3.1.2	N22011102-501 (Carpet Pad)	Forward, Downward, Upward, Side	Tension (180° Peeling of adhesive tape)	Main Cabin Floor	HIGH (10.97)
3.1.3	N22011103-501 (ECS)	Forward, Downward, Upward, Side	Separation of duct from mating spud	Under Floor / Behind Instrument Panel	1.16



Appendix A Manufacturer Data Sheets

Appendix A contains the manufacturer data sheets whose data was used in the preparation of this report.

Title:	Structural Substantiation of N22011102-501 Installation in the TBM-700/850 Aircraft
Document No.	D10052
Revision/Date:	- / 2012-08-27
Page:	A1

**N2 DEVELOPMENT
PROPRIETARY INFORMATION**

SEE PROPRIETARY STATEMENT
ON COVER PAGE



PERMACEL & NITTO DENKO AUTOMOTIVE, INC.

P-55 / P-55B

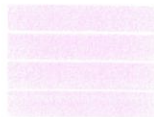
DOUBLE COATED ADHESIVE TAPE WITH FLAME RETARDANT FOR CARPET FIXATION

P55 is a high performance flame retardant double coated cloth backed tape. It was engineered as a highly conformable carpet installation tape that maintains both Airbus and Boeing QPL approvals.

Features

- High performance rubber adhesive provides quick stick properties but superior bonding properties that improve with age.
- Cloth backing provides excellent strength and superior conformability.
- Adhesive bonds well to the cloth backing offering minimal residue during removal helping improve productivity during maintenance and repair.
- FAR 25.853 approval for flame retardancy and ABD0031-E para 6.3, 7.3, 7.3.1 and 7.3.2 Table 1 for smoke density and toxic gas emissions.
- P55 is available in natural white.
- P55B is available in black.

Product Construction



Adhesive Layer
Cloth
Adhesive Layer
Liner

Application

- Flame retardant construction. Engineered to meet stringent requirements of aviation industry – widely used for installing carpeting on interior floors and stairways of commercial aircraft.
- Recommended for service wherever flame retardancy and/or a rugged, heavy-duty double-coated tape is demanded. Examples: fastening automotive interior carpeting and vinyl, splicing foils, plastics, metals, cloth or glass.
- Ideal for commercial and institutional carpet installation work, especially on rough surfaces such as concrete or unfinished wooden floors.
- Often used for mounting kick plates to mount trim strips where walls meet pre-hung ceiling.

<http://www.permacel.com/files/ProductDetails.aspx?Pid=15&CatId=43>

6/2/2009

Title:	Structural Substantiation of N22011102-501 Installation in the TBM-700/850 Aircraft
Document No.	D10052
Revision/Date:	- / 2012-08-27
Page:	A2

N2 DEVELOPMENT
PROPRIETARY INFORMATION

SEE PROPRIETARY STATEMENT
ON COVER PAGE



Properties

Backing material	Cotton cloth with flame retardant fungicide treatment	
Adhesive	Cured rubber/resin, flame retardant	
Color	White and Black	
	Imperial	Metric
Total Tape Thickness w/ liner	17.0 mils	0.432 mm
Total Tape Thickness w/o liner	13.0 mils	0.330 mm
Adhesion to Steel	105 oz/in	11.4 N/10 mm
Government Specifications	FAR-Part 25 Section 853, ABD	

***CAUTION:** The above are typical values and should not be used in writing specifications. Customer is responsible to ensure product meets intended application requirements before approved for use.



N22011102-501 and N20021103-501 Weight and Balance Supplement

Document No.

D10051

Revision / Date

C / 2016-11-23

PROPRIETARY AND CONFIDENTIAL INFORMATION

THIS DOCUMENT AND ALL ITS CONTENTS ARE THE PROPRIETARY INFORMATION OF N2 DEVELOPMENT INC. AND MAY NOT BE USED, REPRODUCED, DISCLOSED, OR USED FOR PROCUREMENT, MANUFACTURE, SALES OR ANY OTHER PURPOSE WITHOUT THE EXPRESS WRITTEN PERMISSION OF N2 DEVELOPMENT, INC.



Revision History

REV LETTER	DESCRIPTION	APPROVAL/DATE
-	INITIAL RELEASE	GAN / 2012-08-27
A	REVISIONS PER ECO-9168 (UPDATED TO REFLECT CHANGES TO N22011102-501 INSTALLATION)	GAN / 2012-09-17
B	REVISIONS PER ECO-9230 (MINOR CORRECTIONS)	GAN / 2012-12-18
C	ADDED N22011103-501 CONFIGURATION PER ECO-11039	GAN / 2016-11-23

Title: N22011102-501 and N22011103-501 Installation Weight and
Balance Analysis
Document No. D10051
Revision/Date: C / 2016-11-23
Page: 2 of 6

N2 DEVELOPMENT
PROPRIETARY INFORMATION
SEE PROPRIETARY STATEMENT
ON COVER PAGE



Table of Contents

Revision History	2
Table of Contents	3
Abstract	4
Purpose	4
Method	5
Fuselage Insulation Blanket Installation / Modification	5
Main Cabin Floor Installation	5
Duct and Silencer Installation	6
Analysis Data	6



Abstract

This document contains the Weight and Balance Analysis for Part No. N22011102-501 and N22011103-501 Noise Reduction System Installations on a Socata TBM-700/850 aircraft.

Purpose

The purpose of this report is to establish the net change in weight and center of gravity associated with the installation of the N22011102-501 and N22011103-501 configurations.

The calculated weight, arm, and moment for each component of the installation configuration are determined.

The operator shall confirm the actual weight and balance change associated with the installation of the Noise Reduction System by weighing and updating the weight and balance data for the aircraft and verifying that all the weight and CG fall within parameters published by Type Certificate holder.

Title:	N22011102-501 and N22011103-501 Installation Weight and Balance Analysis
Document No.	D10051
Revision/Date:	C / 2016-11-23
Page:	4 of 6

**N2 DEVELOPMENT
PROPRIETARY INFORMATION**

SEE PROPRIETARY STATEMENT
ON COVER PAGE



Method

The N22011102-501 Cabin Interior Noise Reduction Kit is comprised of multiple noise-reducing treatments installed throughout the fuselage. The Kit configuration is controlled by Drawing No. N22011102.

The N22011103-501 Environmental Control System Noise Reduction Kit is comprised of multiple ducts and inline absorbent mufflers (silencers) installed in the air distribution duct routes. The Kit configuration is controlled by Drawing No. N22011103.

Detail drawing revision levels are as stated on Master Data List N2201, latest approved revision.

Installation is separated into discrete major component installation kits.

Installation components fall into three basic categories:

- Insulation blankets installed inside the fuselage,
- Floor covering installed on the fuselage main deck, and
- Ducts and silencers installed in the air distribution routes.

Fuselage Insulation Blanket Installation / Modification

The following installation configurations install thermal/acoustic insulation blanket assemblies between and over the fuselage frames inside the pressure vessel:

- N22011102-501: Fuselage Installation

These component installation configurations install materials with uniform weight/area ratio in a symmetrical fashion throughout the fuselage. Installation is symmetric about the longitudinal centerline axis.

Each component installation is broken into discrete areas representing uniform weight distribution, based on the material type used. Areas are approximately rectangular in shape. The weight of each of these areas is calculated by multiplying the unit weight of the material used by the total area. The arm is calculated as the mean longitudinal distance from the aircraft datum within each area.

Main Cabin Floor Installation

The following configurations install N01015202-004 acoustic foam pad and N01015205-004 composite floor pad between the cabin floor panels and carpet:

- N22011102-501: Fuselage Installation

Title:	N22011102-501 and N22011103-501 Installation Weight and Balance Analysis
Document No.	D10051
Revision/Date:	C / 2016-11-23
Page:	5 of 6

**N2 DEVELOPMENT
PROPRIETARY INFORMATION**

SEE PROPRIETARY STATEMENT
ON COVER PAGE



The installation consists of discrete sections of floor covering with uniform weight/area ratio. The weight and geometric center of these discrete sections is determined and reported as the weight and arm, respectively.

Duct and Silencer Installation

The following configurations install N01010505 series ducts, N010106 series silencers, N01010028 series couplers, and various accessories in the air distribution routes below the floor and behind the instrument panel:

- N22011103-501: ECS Installation

The installation consists of discrete components of known weight. The weight and geometric center of these components is determined and reported as the weight and arm, respectively.

Analysis Data

Appendix "A" presents the summary and detail results of the weight and balance analysis for the N22011102-501 and N22011103-501 installations.



Weight and Balance Summary
N2201-1 Top Instl

Component	Weight	Arm	Moment
N22011102-501 Fuselage	138.55	214.64	29737
N22011103-501 ECS	2.96	161.19	477
Removed Insulation	-30.10	224.96	-6771
Removed Ducting	1.00	161.19	161
Grand Total, N2201-1 Top Instl	112.41	209.99	23604



Weight and Balance Detail
N22011102-501 Insulation Blanket Installation

Subcomponent	Description	Qty / Assy	Unit Weight	Total Weight	Arm	Moment
N22011102-501 Installation						
N01011AAR-134-25	INSULATION BLANKET ASSEMBLY	1	0.0328	0.03	282.68	9.28
N01011AAR-25-150	INSULATION BLANKET ASSEMBLY	1	0.0367	0.04	225.20	8.27
N01011AAR-25-208	INSULATION BLANKET ASSEMBLY	1	0.0509	0.05	287.80	14.66
N01011AAR-25-240	INSULATION BLANKET ASSEMBLY	6	0.0588	0.35	191.34	67.48
N01011AAR-25-240	INSULATION BLANKET ASSEMBLY	11	0.0588	0.65	211.14	136.51
N01011AAR-25-74	INSULATION BLANKET ASSEMBLY	1	0.0181	0.02	282.68	5.12
N01011AAR-55-300	INSULATION BLANKET ASSEMBLY	1	0.1616	0.16	317.32	51.29
N01011ADR-50-240	INSULATION BLANKET ASSEMBLY	2	0.7294	1.46	187.80	273.96
N01011ADR-50-240	INSULATION BLANKET ASSEMBLY	2	0.7294	1.46	211.54	308.60
N01011CAR-100-375	INSULATION BLANKET ASSEMBLY	1	1.1616	1.16	302.56	351.45
N01011CAR-50-82	INSULATION BLANKET ASSEMBLY	1	0.1270	0.13	285.24	36.23
N01011CAR-55-250	INSULATION BLANKET ASSEMBLY	1	0.4259	0.43	285.24	121.49
N01011CAR-55-82	INSULATION BLANKET ASSEMBLY	2	0.1397	0.28	270.59	75.60
N01011CAR-60-82	INSULATION BLANKET ASSEMBLY	2	0.1524	0.30	244.27	74.45
N01011CAR-63-250	INSULATION BLANKET ASSEMBLY	1	0.4879	0.49	273.74	133.55
N01011CAR-63-82	INSULATION BLANKET ASSEMBLY	1	0.1600	0.16	279.53	44.73
N01011CAR-65-82	INSULATION BLANKET ASSEMBLY	2	0.1651	0.33	258.09	85.22
N01011CAR-68-98	INSULATION BLANKET ASSEMBLY	1	0.2064	0.21	312.40	64.49
N01011CCR-88-123	INSULATION BLANKET ASSEMBLY	1	0.7111	0.71	224.88	159.92
N01011CCR-90-123	INSULATION BLANKET ASSEMBLY	2	0.7273	1.45	224.88	327.10
N01011CAR-98-133	INSULATION BLANKET ASSEMBLY	1	0.4037	0.40	312.40	126.13
N01011CAR-98-170	INSULATION BLANKET ASSEMBLY	1	0.5161	0.52	312.40	161.22
N01011CCR-100-43	INSULATION BLANKET ASSEMBLY	1	0.2825	0.28	177.56	50.16
N01011CCR-125-43	INSULATION BLANKET ASSEMBLY	1	0.3531	0.35	177.56	62.70
N01011CCR-218-90	INSULATION BLANKET ASSEMBLY	1	1.2890	1.29	177.56	228.87
N01011CCR-225-43	INSULATION BLANKET ASSEMBLY	1	0.6356	0.64	177.56	112.86
N01011CCR-88-104	INSULATION BLANKET ASSEMBLY	1	0.6013	0.60	193.90	116.58
N01011CCR-88-105	INSULATION BLANKET ASSEMBLY	2	0.6013	1.20	193.90	233.17
N01011CCT-83-143-205	INSULATION BLANKET ASSEMBLY	1	0.9488	0.95	177.56	168.47
N01011CCT-83-205-143	INSULATION BLANKET ASSEMBLY	1	0.9488	0.95	177.56	168.47
N01011JAR-100-373	INSULATION BLANKET ASSEMBLY	1	1.2035	1.20	302.56	364.14
N01011JAR-135-99	INSULATION BLANKET ASSEMBLY	1	0.4312	0.43	292.72	126.23
N01011JAR-235-99	INSULATION BLANKET ASSEMBLY	1	0.7507	0.75	312.40	234.51
N01011JAR-373-100	INSULATION BLANKET ASSEMBLY	1	1.2035	1.20	302.56	364.14
N01011JAR-50-180	INSULATION BLANKET ASSEMBLY	1	0.2904	0.29	285.24	82.83
N01011JAR-50-208	INSULATION BLANKET ASSEMBLY	1	0.3356	0.34	285.24	95.72
N01011JAR-50-50	INSULATION BLANKET ASSEMBLY	1	0.0807	0.08	285.24	23.01



Weight and Balance Detail
N22011102-501 Insulation Blanket Installation

Subcomponent	Description	Qty / Assy	Unit Weight	Total Weight	Arm	Moment
N01011JAS-97-75-70	INSULATION BLANKET ASSEMBLY	1	0.2191	0.22	292.72	64.13
N01011JAS-97-130-143	INSULATION BLANKET ASSEMBLY	1	0.4476	0.45	292.72	131.01
N01011JAS-97-183-170	INSULATION BLANKET ASSEMBLY	1	0.5321	0.53	292.72	155.74
N01011JAS-99-170-155	INSULATION BLANKET ASSEMBLY	1	0.4951	0.50	312.40	154.68
N01011JAS-99-183-170	INSULATION BLANKET ASSEMBLY	1	0.5430	0.54	292.72	158.96
N01011JBR-110-115	INSULATION BLANKET ASSEMBLY	1	0.5399	0.54	270.59	146.10
N01011JBR-193-118	INSULATION BLANKET ASSEMBLY	1	0.9721	0.97	270.59	263.03
N01011JBR-193-39	INSULATION BLANKET ASSEMBLY	1	0.3213	0.32	270.59	86.93
N01011JBR-193-85	INSULATION BLANKET ASSEMBLY	1	0.7002	0.70	244.27	171.04
N01011JBR-25-143	INSULATION BLANKET ASSEMBLY	1	0.1526	0.15	244.27	37.27
N01011JCR-29-180	INSULATION BLANKET ASSEMBLY	1	0.3497	0.35	235.71	82.42
N01011JBR-30-185	INSULATION BLANKET ASSEMBLY	1	0.2305	0.23	215.47	49.66
N01011JBR-31-183	INSULATION BLANKET ASSEMBLY	1	0.2421	0.24	266.26	64.47
N01011JCR-64-183	INSULATION BLANKET ASSEMBLY	2	0.7846	1.57	215.47	338.10
N01011JBR-68-158	INSULATION BLANKET ASSEMBLY	1	0.4586	0.46	258.09	118.36
N01011JBR-68-39	INSULATION BLANKET ASSEMBLY	1	0.1132	0.11	270.59	30.63
N01011JBT-115-100-80	INSULATION BLANKET ASSEMBLY	1	0.4418	0.44	270.59	119.54
N01011JBT-120-205-198	INSULATION BLANKET ASSEMBLY	1	1.0321	1.03	231.18	238.59
N01011JBT-120-275-272	INSULATION BLANKET ASSEMBLY	1	1.4008	1.40	231.18	323.85
N01011JBT-134-100-68	INSULATION BLANKET ASSEMBLY	1	0.4804	0.48	258.09	124.00
N01011JCT-183-20-24	INSULATION BLANKET ASSEMBLY	1	0.2697	0.27	215.35	58.08
N01011JCT-183-40-44	INSULATION BLANKET ASSEMBLY	1	0.5149	0.51	215.35	110.88
N01011JCR-115-90	INSULATION BLANKET ASSEMBLY	1	0.6933	0.69	171.85	119.15
N01011JCR-145-45	INSULATION BLANKET ASSEMBLY	1	0.4371	0.44	224.88	98.30
N01011JCR-160-140	INSULATION BLANKET ASSEMBLY	2	1.5005	3.00	143.21	429.78
N01011JCR-20-240	INSULATION BLANKET ASSEMBLY	1	0.3215	0.32	224.88	72.31
N01011JCR-35-250	INSULATION BLANKET ASSEMBLY	1	0.5861	0.59	224.88	131.81
N01011JCR-58-180	INSULATION BLANKET ASSEMBLY	2	0.6994	1.40	191.50	267.85
N01011JCR-65-90	INSULATION BLANKET ASSEMBLY	1	0.3919	0.39	171.85	67.34
N01011JCR-95-75	INSULATION BLANKET ASSEMBLY	1	0.4773	0.48	153.05	73.05
N01011JCT-65-73-68	INSULATION BLANKET ASSEMBLY	1	0.3070	0.31	153.05	46.98
N01011JCT-90-85-90	INSULATION BLANKET ASSEMBLY	1	0.5275	0.53	172.44	90.97
N01011JCT-90-150-162	INSULATION BLANKET ASSEMBLY	1	0.9405	0.94	171.85	161.63
N01011JCT-90-162-150	INSULATION BLANKET ASSEMBLY	1	0.9405	0.94	171.85	161.63
N01011JCT-97-117-118	INSULATION BLANKET ASSEMBLY	1	0.7635	0.76	182.09	139.02
N01011JCT-97-118-116	INSULATION BLANKET ASSEMBLY	1	0.7602	0.76	182.09	138.43
N01011JCT-97-253-266	INSULATION BLANKET ASSEMBLY	1	1.6862	1.69	182.09	307.03
N01011JCT-97-266-253	INSULATION BLANKET ASSEMBLY	1	1.6862	1.69	182.09	307.03
N01011JCT-105-278-273	INSULATION BLANKET ASSEMBLY	1	1.9378	1.94	193.90	375.73
N01011JCT-230-105-120	INSULATION BLANKET ASSEMBLY	1	1.7333	1.73	143.21	248.23



Weight and Balance Detail
N22011102-501 Insulation Blanket Installation

Subcomponent	Description	Qty / Assy	Unit Weight	Total Weight	Arm	Moment
N01011JCT-230-120-105	INSULATION BLANKET ASSEMBLY	1	1.7333	1.73	143.21	248.23
N01011KAR-115-250	INSULATION BLANKET ASSEMBLY	1	0.7853	0.79	270.59	212.50
N01011KCR-138-175	INSULATION BLANKET ASSEMBLY	1	1.4982	1.50	258.09	386.68
N01011KCR-143-175	INSULATION BLANKET ASSEMBLY	1	1.5525	1.55	244.27	379.23
N01011KCR-83-123	INSULATION BLANKET ASSEMBLY	2	0.6333	1.27	224.88	284.86
N01011KCR-88-123	INSULATION BLANKET ASSEMBLY	1	0.6715	0.67	224.88	151.01
N01011KCR-88-138	INSULATION BLANKET ASSEMBLY	1	0.7534	0.75	258.09	194.44
N01011KCR-88-143	INSULATION BLANKET ASSEMBLY	1	0.7807	0.78	244.27	190.70
N01011KCR-90-123	INSULATION BLANKET ASSEMBLY	2	0.6868	1.37	224.88	308.88
N01011KBR-160-103	INSULATION BLANKET ASSEMBLY	1	0.6218	0.62	231.18	143.76
N01011KBR-183-165	INSULATION BLANKET ASSEMBLY	1	1.1393	1.14	244.27	278.31
N01011KBR-43-38	INSULATION BLANKET ASSEMBLY	2	0.0617	0.12	203.43	25.08
N01011KBR-43-38	INSULATION BLANKET ASSEMBLY	2	0.0617	0.12	226.77	27.96
N01011KBR-43-38	INSULATION BLANKET ASSEMBLY	2	0.0617	0.12	250.98	30.95
N01011KBR-43-38	INSULATION BLANKET ASSEMBLY	1	0.0617	0.06	275.20	16.97
N01011KBT-155-184-191	INSULATION BLANKET ASSEMBLY	1	1.0966	1.10	270.59	296.73
N01011KCR-83-104	INSULATION BLANKET ASSEMBLY	2	0.5355	1.07	205.83	220.45
N01011KCR-83-105	INSULATION BLANKET ASSEMBLY	2	0.5407	1.08	193.90	209.67
N01011KCR-88-104	INSULATION BLANKET ASSEMBLY	1	0.5678	0.57	205.83	116.86
N01011KCR-88-105	INSULATION BLANKET ASSEMBLY	1	0.5732	0.57	193.90	111.15
N01011KCR-90-104	INSULATION BLANKET ASSEMBLY	1	0.5807	0.58	205.83	119.52
N22012102-1301	INSULATION BLANKET ASSEMBLY	1	2.8564	2.86	137.80	393.59
N22012102-1302	INSULATION BLANKET ASSEMBLY	1	2.8564	2.86	137.80	393.59
N22012102-1303	INSULATION BLANKET ASSEMBLY	1	0.7180	0.72	153.05	109.89
N22012102-1304	INSULATION BLANKET ASSEMBLY	1	0.7180	0.72	153.05	109.89
N22012102-1305	INSULATION BLANKET ASSEMBLY	1	0.4814	0.48	153.05	73.68
N22012102-1306	INSULATION BLANKET ASSEMBLY	1	0.4814	0.48	153.05	73.68
N22012102-1307	INSULATION BLANKET ASSEMBLY	1	0.4553	0.46	153.05	69.68
N22012102-1308	INSULATION BLANKET ASSEMBLY	1	0.4553	0.46	153.05	69.68
N22012102-1309	INSULATION BLANKET ASSEMBLY	1	0.2841	0.28	153.05	43.48
N22012102-1310	INSULATION BLANKET ASSEMBLY	1	0.2841	0.28	153.05	43.48
N22012102-1311	INSULATION BLANKET ASSEMBLY	1	0.4407	0.44	162.40	71.57
N22012102-1313	INSULATION BLANKET ASSEMBLY	1	0.8974	0.90	193.90	174.00
N22012102-1315	INSULATION BLANKET ASSEMBLY	1	0.1428	0.14	218.43	31.19
N22012102-1317	INSULATION BLANKET ASSEMBLY	1	2.6857	2.69	205.83	552.79
N22012102-1319	INSULATION BLANKET ASSEMBLY	1	1.4089	1.41	218.43	307.74
N22012102-1321	INSULATION BLANKET ASSEMBLY	1	1.1510	1.15	244.27	281.16
N22012102-1323	INSULATION BLANKET ASSEMBLY	1	1.5618	1.56	258.09	403.09



Weight and Balance Detail
N22011102-501 Insulation Blanket Installation

Subcomponent	Description	Qty / Assy	Unit Weight	Total Weight	Arm	Moment
N22012102-1325	INSULATION BLANKET ASSEMBLY	1	0.2295	0.23	218.43	50.13
N22012102-1327	INSULATION BLANKET ASSEMBLY	1	0.2213	0.22	231.18	51.16
N22012102-1329	INSULATION BLANKET ASSEMBLY	2	0.3199	0.64	203.43	130.15
N22012102-1331	INSULATION BLANKET ASSEMBLY	2	0.3199	0.64	203.43	130.15
N22012102-1333	INSULATION BLANKET ASSEMBLY	2	0.2014	0.40	226.77	91.34
N22012102-1335	INSULATION BLANKET ASSEMBLY	2	0.2014	0.40	226.77	91.34
N22012102-1333	INSULATION BLANKET ASSEMBLY	2	0.2014	0.40	250.98	101.10
N22012102-1335	INSULATION BLANKET ASSEMBLY	2	0.2014	0.40	250.98	101.10
N22012102-1333	INSULATION BLANKET ASSEMBLY	1	0.2014	0.20	275.20	55.42
N22012102-1335	INSULATION BLANKET ASSEMBLY	1	0.2014	0.20	275.20	55.42
N22012102-1337	INSULATION BLANKET ASSEMBLY	1	0.8347	0.83	279.53	233.32
N22012102-1339	INSULATION BLANKET ASSEMBLY	1	0.9467	0.95	312.40	295.75
N22012102-1341	INSULATION BLANKET ASSEMBLY	1	1.9193	1.92	162.40	311.70
N22012102-1343	INSULATION BLANKET ASSEMBLY	1	0.5268	0.53	171.85	90.53
N22012102-1345	INSULATION BLANKET ASSEMBLY	1	0.6430	0.64	171.85	110.50
N22012102-1347	INSULATION BLANKET ASSEMBLY	1	2.7354	2.74	193.90	530.39
N22012102-1349	INSULATION BLANKET ASSEMBLY	1	2.7030	2.70	205.83	556.35
N22012102-1351	INSULATION BLANKET ASSEMBLY	1	0.5577	0.56	231.18	128.93
N22012102-1353	INSULATION BLANKET ASSEMBLY	1	1.8590	1.86	218.43	406.05
N22012102-1355	INSULATION BLANKET ASSEMBLY	1	0.2179	0.22	292.72	63.78
N22012102-1357	INSULATION BLANKET ASSEMBLY	1	1.0900	1.09	177.56	193.54
N22012102-1359	INSULATION BLANKET ASSEMBLY	1	0.9936	0.99	292.72	290.84
N22012102-1501	INSULATION BLANKET ASSEMBLY	2	1.0184	2.04	162.80	331.58
N22012102-1503	INSULATION BLANKET ASSEMBLY	2	0.6111	1.22	199.76	244.15
N22012102-1505	INSULATION BLANKET ASSEMBLY	1	1.8332	1.83	244.06	447.40
N22012102-1507	INSULATION BLANKET ASSEMBLY	1	0.6620	0.66	224.45	148.59
N22012102-1509	INSULATION BLANKET ASSEMBLY	1	1.8507	1.85	256.77	475.21
N01015210-1002	COMPOSITE ACOUSTIC SEAL	40.278	0.39	15.82	207.09	3275.58
N01015211-001	COMPOSITE THERMAL/ACOUSTIC SEAL	21	0.07	1.46	252.56	368.32
N01015211-002	COMPOSITE THERMAL/ACOUSTIC SEAL	21	0.31	6.56	252.56	1657.42
N01014001-016	TAPE, INSULATION SEALING	0	0.25	0.00	252.56	0.00
N01014001-024	TAPE, INSULATION SEALING	1	0.25	0.25	252.56	63.14
N01014003-016	TAPE, DS, SILICONE/ACRYLIC	0	0.13	0.00	252.56	0.00
N01014005-016	TAPE, DS, ACRYLIC CLOTH	1	0.67	0.67	252.56	168.11
Totals				138.55	214.64	29736.95



Weight and Balance Detail
N22011103-501 ECS Installation

Subcomponent	Description	Qty / Assy	Unit Weight	Total Weight	Arm	Moment
-801 Duct Route						
MS3367-2-0	TIEDOWN STRAP	4	0.0050	0.02	143.21	2.86
N01010505-16-48	DUCT	1	0.2500	0.25	143.21	35.80
N010106AA-16-24	SILENCER	1	0.4500	0.45	143.21	64.44
N01010505-16-06	DUCT	2	0.0600	0.12	143.21	17.19
N01010028-16	COUPLER	1	0.0400	0.04	143.21	5.73
-803 Duct Route						
MS3367-2-0	TIEDOWN STRAP	4	0.0050	0.02	143.21	2.86
N01010505-16-48	DUCT	1	0.2500	0.25	143.21	35.80
N010106AA-16-24	SILENCER	1	0.4500	0.45	143.21	64.44
N01010505-16-24	DUCT	1	0.1500	0.15	143.21	21.48
-805 Duct Route						
MS3367-2-0	TIEDOWN STRAP	2	0.0050	0.01	187.20	1.87
N01010505-12-06	DUCT	2	0.0400	0.08	187.20	14.98
N010106AA-12-21	SILENCER	1	0.3500	0.35	187.20	65.52
-807 Duct Route						
MS3367-2-0	TIEDOWN STRAP	4	0.0050	0.02	187.20	3.74
N01010505-12-06	DUCT	1	0.0400	0.04	187.20	7.49
N010106AA-12-21	SILENCER	1	0.3500	0.35	187.20	65.52
N01010505-12-34	DUCT	2	0.1800	0.36	187.20	67.39
Totals				2.96	161.19	477.12



Weight and Balance Detail
Removed Insulation

Removed Insulation	Area	% of Total	Weight	Arm	Moment
Cockpit - OEM	4013	0.175970182	-5.03	162.80	-819.31
Sidewalls/Ceiling - OEM	18792	0.824029818	-23.57	252.56	-5952.12
Cockpit - TRIM	4013	0.175970182	-0.26	162.80	-42.97
Sidewalls/Ceiling - TRIM	18792	0.824029818	-1.24	252.56	-312.17
Totals			-30.10	224.96	-6771.43

AVEX Inc.

C.R.S. X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 13658

Date: 11/10/2017

Tach:

Hobbs: 1034

TTSN:

TLSN:

1. Removed inertial separator actuator P/N 6071017220 S/N C92065 and installed OPT70K151-70 inertial separator P/N OPT70K15100 S/N 0195 I.A.W. SB 70-224-71. Op checks good.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 13658.

Bryan D. Gray 11/10/17

Date

(LBID:13788)

For: FAA Approved Repair Station # X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 14164

Date: 7/9/2018

Tach: Hobbs: 1157.7 TTSN: 1157.7 TLSN: 718

1. Complied with a "B" inspection plus annual I.A.W. Daher MM Chapter 05-20-03 and 05-20-05. All AD's checked through revision 2018-13; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.
2. Complied with SB 70-118-27R1 Paragraph A by the check for play between the flap actuator drive nut and internal actuator rod I.A.W. Daher MM Chapter 27. No defects found at this time.
3. Complied with SB 70-118-27R1 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Daher MM Chapter 27. Op checks good on the extension and retraction of the flaps.
4. Complied with the 5 year weigh of the aircraft I.A.W. Daher MM Chapter 08. Updated weight and balance data installed in the aircraft POH.
5. Performed 12 month check of the slip clutch manual override for the B35, B36, B37 and B38 servo actuators I.A.W. Daher MM Chapter 22. Op checks good.
6. Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time. Battery next due replacement at 01/2022.
7. Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Daher MM Chapter 32; and lubricated landing gear axles I.A.W. Daher. MM Chapter 12. No defects noted at this time. Op and leak checks good.
8. Complied with the annual servicing of the oxygen system I.A.W. Daher MM Chapter 35. Op and leak checks good.
9. Complied with the 3 month or 200 hour capacity check of the lead acid battery S/N 40851628 I.A.W. Concorde Battery Corp. S.T.C. SA00775LA instructions for continued airworthiness. Capacity checks good.
10. Complied with the 1200 hour inspection and lubrication of external fittings I.A.W. Daher MM Chapter

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME Socata TBM 700 S/N: 664 N850FP

Work Order: 14164 Date: 7/9/2018

Tach: Hobbs: 1157.7 TTSN: 1157.7 TLSN: 718

12. No defects noted at this time.
11. Complied with the 600 hour check of the alternator brushes and removed and replaced with new I.A.W. Daher MM Chapter 24. Op checks good.
12. Complied with the 600 hour replacement of the fuel unit filter element with new I.A.W. Daher MM Chapter 28. Op and leak checks good.
13. Removed SG1 starter generator P/N 8012F S/N 715 and sent out for overhaul/repair I.A.W. Daher MM Chapter 24. Installed repaired (brushes and bearings replaced) SG1 starter generator P/N 8012F S/N 677 and safetied I.A.W. Daher MM Chapter 24. Op checks good.
14. Passenger masks did not deploy properly. Adjusted both clips on the passenger masks and performed operational test I.A.W. Daher MM Chapters 20 and 35. Ops check good.
15. Removed right break back plate and pressure plate. Installed repaired back plate and pressure plate I.A.W. Daher MM Chapter 32.
16. Adjusted low right spoiler cable tension to 107+/- 10% @ 88 degrees Fahrenheit I.A.W. Daher MM Chapter 27.
17. Adjusted low right aileron cable tension to 92 lbs. +/- 10% @ 88 degrees Fahrenheit I.A.W. Daher MM Chapter 27.
18. Removed & replaced S96 pressure switch due to closure PSI out of limits I.A.W. Daher MM Chapter 30. Performed ground function test, indication light did not illuminate. Inspected S95 switch found wire terminal broken. Removed and replaced wire terminal I.A.W. Daher MM Chapter 20 & 30. Ops check flight test good.
19. Performed a full flight control system rig on left wing. Adjusted left aileron cable tension to 81 lbs. +/- 10% @ 71 degrees Fahrenheit and spoiler cable tension to 92 lbs. +/- 10% @ 71 degrees Fahrenheit. Verified travels I/A/W Daher MM Chapter 27. Adjusted spoiler up travel I.A.W. Daher MM Chapter 27. Ops check good, no other defects detected.

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 14164

Date: 7/9/2018

Tach:

Hobbs: 1157.7

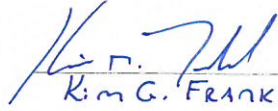
TTSN: 1157.7

TLSN: 718

20. Removed broken left side cowling door stay clip and install new. Maintenance performed I.A.W. Daher MM Chapter 71.

21. Adjusted low elevator trim tab cable tension to 28 lbs. +/- 10% @77 Degrees Fahrenheit.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 14164.

  07/09/18
Kim G. Frank Date

(LBID:14393)

For: FAA Approved Repair Station # X1IR595Y

1. I certify that the Altimeter system and Altitude Reporting equipment have been tested and inspected as required by FAR 91.411 and found to comply with Appendix E of Part 43.
2. I certify that the Transponder(s) have been tested in accordance with 91.413 and meet the requirements of Part 43 Appendix F
3. Meets RVSM Compliance as per Dum Ch 34.

Alt #1 PN: 011-03470-10 SN: 494101675
 Alt. #2 PN: 011-03470-10 SN: 494101682
 Xpdr #1 PN: 011-03303-00 SN: 3EH020947
 Xpdr #2 PN: 011-00779-30 SN: 89124100
 Alt Reporter PN: 9200-32500-0021 SN: 1486
 Work Order #: A14165 N# A1654CW
 Signed: [Signature] Date: 06/21/2018

Repair Station Certificate: X1IR5954



205 Durley Ave, Ste A
 Camarillo, CA 93010
 C.R.S. X1IR595Y

ARS13

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME
Socata TBM 700
S/N: 664
N850FP
Work Order: A14165
Date: 7/9/2018
Tach: Hobbs: 1157.7 TTSN: 1157.7 TLSN: 718

1. Complied with the 24 month certification of the altimeter and static systems I.A.W. FAR 91.411. No defects found at this time. See test results provided with the airframe log book.
2. Complied with the 24 month certification of the transponder system I.A.W. FAR 91.413. No defects found at this time. See test results provided with the airframe log book.
3. Complied with Daher SB 70-250: GTX345R transponder retrofit. Removed of transponder P/N 011-00779-30 S/N 89124016 and installed upgraded transponder P/N 011-03303-00 S/N3EH020947 I.A.W. Daher MM Chapter 34 and SB 70-250. Op checks good.
4. Complied with Daher SB 70-247R1; Garmin G1000 Nxi Integrated Flight Deck and Software Version 20.80 work performed I.A.W. Daher SB 70-247R1. Removed (PDF) GDU #1 1040A, P/N 011-00916-10 S/N 86816743 and installed (PDF) GDU #1 1050A, P/N 011-03470-10 S/N 494101675. Removed (PDF) GDU #2 1040A, P/N 011-00916-10 S/N 86816805 and installed (PDF) GDU #2 1050A, P/N 011-03470-10 S/N 494101682. Removed MFD GDU 1500, P/N 011-01108-10 S/N 43225941 and installed MFD GDU 1550, P/N 011-03472-00 S/N 496001131. Removed GCU 475 (key pad), P/N 011-01054-10 S/N 21805908 and installed GCU 475 (key pad), P/N 011-04475-00 S/N 48V000228. Installed new Flight Stream FS510, P/N 011-03595-00 S/N 402005413. Op checks good. Inserted supplement 66 (GARMIN G1000 Nxi retrofit) into Pilot's Operating Handbook.
5. Complied with the ESI 2000 equipment 3 year / 1200 hour recurring structural inspections as outlined in Chapter 2 of L-3 Communications Drawing No. 0031-32504-01; no defects found at this time.
6. Complied with RVSM 12 month inspection of the autopilot altitude control system I.A.W. Daher MM Chapters 22 and 34. No defects found at this time.
7. Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 004-32501-01. Op checks good.
8. Complied with RVSM annual recurring inspection of the air data systems I.A.W. Daher MM Chapter 34-11-00-602 items 15, 16, 17, 18, 19, and 20 and owner operators approved RVSM manual. No

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A14165

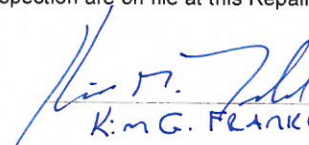
Date: 7/9/2018

Tach: Hobbs: 1157.7 TTSN: 1157.7 TLSN: 718

defects noted at this time.

9. Complied with RVSM Manual annually recurring visual and functional checks of the altitude alerter system I.A.W. Daher MM Chapter 22-11-00 and owner operators approved RVSM manual. No defects noted at this time.
10. Complied with RVSM annual recurring fuselage inspection/check I.A.W. Daher MM Chapter 53-00-0-601 items 5, 6, 7, 8, 9, 10 and owner operators approved RVSM manual.
11. Complied with RVSM Manual annually recurring inspection/check of the fairings I.A.W. Daher MM Chapter 57-10-00, Page 601 and 602, Items 6 and 7; and owner operators approved RVSM manual. No defects noted at this time.
12. Recalibrated ADC#1 I.A.W. Daher MM Chapter 34 and GDC74B recalibration tool manual. Ops check good. Recertified during 24 month FAR 91.411 certification of altimeter and static systems.
13. Recalibrated ADC#2 I.A.W. Daher MM Chapter 34 and GDC74B recalibration tool manual. Ops check good. Recertified during 24 month FAR 91.411 certification of altimeter and static systems.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A14165.


Kim G. Frankl
07/09/18
Date

(LBID:14396)

For: FAA Approved Repair Station # X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME Socata TBM 700 S/N: 664 N850FP

Work Order: 15190 Date: 8/1/2019

Tach: Hobbs: 1297.2 TTSN: 1297.2 TLSN: 799

1. Complied with an "A" Inspection plus Annual I.A.W. Daher MM Chapter 05-20-02 and 05-20-05. All AD's checked through revision 2019-15; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.
2. Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time. Battery next due replacement 01/2022.
3. Complied with SB 70-118-27R1 Paragraph A by the check for play between the flap actuator drive nut and internal actuator rod I.A.W. Daher MM Chapter 27. No defects found at this time.
4. Complied with SB 70-118-27R1 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Daher MM Chapter 27. Op checks good on the extension and retraction of the flaps.
5. Complied with the 6 year overhaul of propeller over speed governor P/N A210632 S/N 18663260 by replacement with overhauled propeller over speed governor P/N A210632 S/N 16929854 I.A.W. Daher MM Chapter 61. Op and leak checks good.
6. Complied with the 6 year overhaul by removal of propeller governor P/N 66503-8210-007-1, S/N 18634716 and installation of an overhauled propeller governor PN 66503-8210-007-1, S/N 18455441 I.A.W. Woodward SB 33580 and Pratt and Whitney MM Chapter 61. Op check and leak checks good on ground test.
7. Complied with the 6 year overhaul of pilot side oxygen mask S/N B002502 by replacement with overhauled pilot side oxygen mask S/N SE70623 I.A.W. Daher MM Chapter 35. Op and leak checks good.
8. Complied with the 6 year overhaul of co-pilot side oxygen mask S/N B002527 by replacement with overhauled co-pilot side oxygen mask S/N B000441 I.A.W. Daher MM Chapter 35. Op and leak checks good.
9. Complied with the 6 year overhaul of gaseous oxygen altimetric valve S/N 9315 by replacement with

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME Socata TBM 700 S/N: 664 N850FP

Work Order: 15190 Date: 8/1/2019

Tach: Hobbs: 1297.2 TTSN: 1297.2 TLSN: 799

- overhauled altimetric valve S/N 9314 I.A.W. Daher MM Chapter 35. Op and leak checks good.
10. Complied with the 3 year replacement of the shimmy damper Pure Silicone 100 cST hydraulic fluid I.A.W. Daher MM Chapter 32. Op and leak checks good on ground taxi.
 11. Complied with the 3 year replacement of the landing gear hydraulic fluid I.A.W. Daher MM Chapter 32. Op and leak checks good on ground swing of the landing gear system.
 12. Complied with the 3 year replacement of the brake system hydraulic fluid I.A.W. Daher MM Chapter 32. Op and leak checks good on ground taxi.
 13. Complied with the 24 month cleaning of the outflow and safety valve seats I.A.W. Daher MM Chapter 21. Op checks good.
 14. Complied with the 24 month or 600 hour replacement of the air-conditioning compressor belt with new I.A.W. Daher MM Chapter 21. Op checks good.
 15. Performed 12 month check of the slip clutch manual override for the B35, B36, B37 and B38 servo actuators I.A.W. Daher MM Chapter 22. Op checks good.
 16. Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Daher MM Chapter 32; and lubricated landing gear axles I.A.W. Daher. MM Chapter 12. No defects noted at this time. Op and leak checks good.
 17. Complied with the annual servicing of the oxygen system I.A.W. Daher MM Chapter 35. Op and leak checks good.
 18. Complied with the 3 month or 200 hour capacity check of the lead acid battery S/N 40851628 I.A.W. Concorde Battery Corp. S.T.C. SA00775LA instructions for continued airworthiness. Capacity checks good.
 19. Adjusted alternator belt low tension to 128 Hz I.A.W. Daher MM Chapter 24.
 20. Removed and replaced #2 bearing scavenge tube o-rings with new I.A.W. Pratt and Whitney MM

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME **Socata TBM 700** **S/N: 664** **N850FP**
Work Order: 15190
Date: 8/1/2019
Tach: **Hobbs: 1297.2** **TTSN: 1297.2** **TLSN: 799**

Chapter 72. Leak checks good.

21. Upon pre-flight inspection it was found that the fuel clog light has expired. Removed faulty fuel clog light assembly and installed new I.A.W. Daher MM Chapter 33. Ops check good.
22. Due to A/C system exposure while replacing cabin evaporator. Removed receiver dryer P/N 8988A010001 S/N 8988-00438 and replaced with a new receiver dryer P/N 8988A010001 S/N 8988-01198 I.A.W. Daher MM Chapter 21. Op and leak checks good.
23. Removed leaking cabin evaporator core P/N 3733A04000 S/N 1173R and installed overhauled cabin evaporator core P/N 3733A04000 S/N 2803R I.A.W. Daher MM Chapter 21. Op and leak checks good.
24. Adjusted passenger stair mechanism I.A.W. Daher MM Chapter 52. Op checks good.
25. Left inboard de-ice boot has one pin hole. Repaired pin hole on left wing inboard de-ice boot I.A.W. Aerazur MM Chapter 30. Op and leak checks good.
26. Left wing fuel panel #533 is leaking. De-fueled left wing, removed access panel #533, re-sealed with new screws and gasket, and re-installed access panel I.A.W. Daher MM Chapter 28 and 52. Op and leak checks good.
27. Removed old left main landing gear tire P/N 033-631-0 S/N 6355S00263 and installed new left main landing gear tire P/N 033-631-0 S/N 7272S00308 I.A.W. Daher MM Chapter 32. Op checks good.
28. Repaired pin hole on right wing inboard de-ice boot I.A.W. Aerazur MM Chapter 30. Op and leak checks good.
29. Removed old right main landing gear tire P/N 033-631-0 S/N 5084S00250 and installed new right main landing gear tire P/N 033-631-0 S/N 7272S00308 I.A.W. Daher MM Chapter 32. Op checks good.
30. Reviewed Pilot's Operating Handbook and Supplements for revision currency with reference to Technical Publication Status issued online by Daher. Pilot's Operating Handbook and Supplements

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME Socata TBM 700 S/N: 664 N850FP

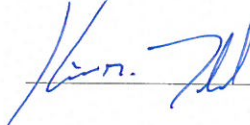
Work Order: 15190 Date: 8/1/2019

Tach: Hobbs: 1297.2 TTSN: 1297.2 TLSN: 799

current at this time.

31. Performed test flight I.A.W. Daher MM Chapter 05-12-02.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 15190.

  08/01/19
Date

(LBID:15668)

For: FAA Approved Repair Station # X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME Socata TBM 700 S/N: 664 N850FP

Work Order: A15191 Date: 8/1/2019

Tach: Hobbs: 1297.2 TTSN: 1297.2 TLSN: 799

1. Disabled aural alerts and ATC audio on passenger headsets I.A.W. Daher SB 70-261.
2. Complied with SB 70-265 by the upgrade of the Emergency Descent Mode engagement parameters in order to take into account pilot reaction time I.A.W. Daher SB 70-265.
3. Complied with 24 month inspection of the dynamic / pitot systems I.A.W. Daher MM Chapter 34. Op checks good.
4. Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 004-32501-01. Op checks good. No defects noted at this time.
5. Complied with RVSM required check of external surfaces I.A.W. Daher MM Chapter 53. No defects noted at this time.
6. Complied with RVSM required check of the static pressure ports for condition and cleanliness I.A.W. Daher MM Chapter 34. No defects noted at this time.
7. Complied with inspection of the electrical power center for loose hardware on terminals I.A.W. Daher MM Chapter 24. Op checks good.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A15191.

  08/01/19
Date

(LBID:15671)

For: FAA Approved Repair Station # X1IR595Y

AVEX Inc.

C.R.S. X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: 15376

Date: 9/27/2019

Tach:

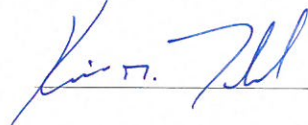
Hobbs: 1323.6

TTSN:

TLSN:

1. Reactivated aural alerts and ATC audio on passenger headsets I.A.W. Daher SB 70-261. Ops check good.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 15376.

  09/27/19

Date

(LBID:15879)

For: FAA Approved Repair Station # X1IR595Y

AVEX Inc.

C.R.S. X1IR595Y

205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

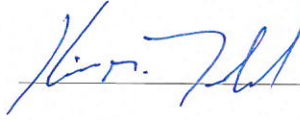
AIRFRAME Socata TBM 700 S/N: 664 N850FP

Work Order: 15498 Date: 11/5/2019

Tach: Hobbs: 1333.8 TTSN: TLSN:

1. Replace aircraft lead acid battery. Removed aircraft lead acid battery PN RG-380E/44 S/N 40851628 and installed new aircraft lead acid battery PN RG-380E/44 S/N 41036761 I.A.W. Concorde Battery Corp. S.T.C. SA00775LA Instructions for continued airworthiness and Daher MM Chapter 24. Op checks good.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 15498.

Date

(LBID:16031)

For: FAA Approved Repair Station # X1IR595Y

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: A16073			Date: 9/3/2020
Tach:	Hobbs: 1389.4	TTSN: 1389.4	TLSN: 849

1. Complied with the 24 month certification of the altimeter and static systems I.A.W. FAR 91.411. No defects found at this time. See test results provided with the airframe log book.
2. Complied with the 24 month certification of the transponder system I.A.W. FAR 91.413. No defects found at this time. See test results provided with the airframe log book.
3. Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 004-32501-01. Op checks good. No defects noted at this time.
4. Complied with RVSM required leakage test of static and dynamic systems and check of associated instruments I.A.W. Daher MM Chapter 34. No defects noted at this time.
5. Complied with RVSM required check of the air data system lines for condition, attachment, and wear due to chafing at hose connections I.A.W. Daher MM Chapter 34.
6. Complied with RVSM required check of the static pressure ports for condition and cleanliness I.A.W. Daher MM Chapter 34. No defects noted at this time.
7. Complied with RVSM required check of the pitot tubes for condition, attachment, cleanliness, and evidence of overheating I.A.W. Daher MM Chapter 34. No defects noted at this time.
8. Complied with RVSM required check of external surfaces I.A.W. Daher MM Chapter 53. No defects noted at this time.

AVEX, Inc.

C.R.S. X1IR595Y

Page 2 of 2

205 Durley Avenue, Suite A Camarillo, CA 93010 (805) 389-1188 Fax: (805) 389 - 3323

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: A16073			Date: 9/3/2020
Tach:	Hobbs: 1389.4	TTSN: 1389.4	TLSN: 849

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A16073.

  3 Sep 2020

Date

(LBID:17014)

For: FAA Approved Repair Station C.R.S. X1IR595Y

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: 16072			Date: 9/3/2020
Tach:	Hobbs: 1389.4	TTSN: 1389.4	TLSN: 849

1. Complied with a "C" inspection plus annual I.A.W. Daher MM Chapter 05-20-04 and 05-20-05. All AD's checked through revision 2020-17; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.
2. Complied with SB 70-118-27R1 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Daher MM Chapter 27. Operational test check good.
3. Complied with SB 70-118-27R1 Paragraph A by the check for play between the flap actuator drive nut and internal actuator rod I.A.W. Daher MM Chapter 27. No defects found at this time.
4. Performed 12 month check of the slip clutch manual override for the B35, B36, B37 and B38 servo actuators I.A.W. Daher MM Chapter 22. Operational checks good.
5. Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time. Battery next due replacement January 2022.
6. Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Daher MM Chapter 32; and lubricated landing gear axles I.A.W. Daher. MM Chapter 12. No defects noted at this time. Operational test and leak check good.
7. Complied with the 1500 hour or 4 year check of the fuel flapper valves in the left wing I.A.W. Daher MM Chapter 28. No defects found at this time.
8. Complied with the 1500 hour or 4 year check of the fuel strainer in the left wing I.A.W. Daher MM Chapter 28. No defects found at this time.
9. Complied with the 1500 hour or 4 year check of the fuel flapper valves in the right wing I.A.W. Daher MM Chapter 28. No defects found at this time.
10. Complied with the 1500 hour or 4 year check of the fuel strainer in the right wing I.A.W. Daher MM Chapter 28. No defects found at this time.

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: 16072			Date: 9/3/2020
Tach:	Hobbs: 1389.4	TTSN: 1389.4	TLSN: 849

11. Complied with the 3 year swing of the standby compass I.A.W. Daher MM Chapter 34. Updated the compass card and installed in the aircraft.
12. Complied with 7 year or 5000 landings replacement of the nose gear bolt that secures actuator hinge pin /axle with new I.A.W. Daher MM Chapter 32.
13. Removed illegible drainage placard on 210 door, and installed new drainage placard I.A.W. Daher MM Chapter 11.
14. Removed defective Schrader valves on air-conditioning service ports, and installed new Schrader valves I.A.W. Daher MM Chapter 21. Serviced air-conditioning system I.A.W. Daher MM Chapter 12. Operational test and leak check good.
15. Removed defective yaw slip clutch, and installed new slip clutch kit I.A.W. Daher MM Chapter 22. Operational test check good.
16. Adjusted alternator belt tension I.A.W. Daher MM Chapter 24.
17. Adjusted left aileron I.A.W. Daher MM Chapter 27. Operational test, and travel check good.
18. Adjusted right spoiler I.A.W. Daher MM Chapter 27. Operation test, and travel check good.
19. Adjusted rudder I.A.W. Daher MM Chapter 27. Operational test and travel check good.
20. Adjusted rudder trim tab I.A.W. Daher MM Chapter 27. Operational test, and travel check good.
21. Removed deteriorated chafe tape on right flap, and installed new chafe tape I.A.W. Daher MM Chapter 27.
22. Removed deteriorated chafe tape on right flap, and installed new chafe tape I.A.W. Daher MM Chapter 27.
23. Repaired left wing inboard de-ice boot I.A.W. Aerazur CMM 30-10-00. Operational test and leak check good.

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: 16072			Date: 9/3/2020
Tach:	Hobbs: 1389.4	TTSN: 1389.4	TLSN: 849

24. Repaired vertical stabilizer de-ice boot I.A.W. Aerazur CMM 30-10-00. Operational test and leak check good.
25. Removed contaminated capillary tube on nose gear actuator, and installed new capillary tube I.A.W. Daher MM Chapter 32.
26. Removed contaminated capillary tube on left gear actuator, and installed new capillary tube I.A.W. Daher MM Chapter 32.
27. Removed contaminated capillary tube on right gear actuator, and installed new capillary tube I.A.W. Daher MM Chapter 32.
28. Removed defective backplate and pressure plate on left brake assembly, and installed overhauled backplate and pressure plate I.A.W. Daher MM Chapter 32. Operational test and leak check good.
29. Adjusted left landing gear door I.A.W. Daher MM Chapter 32. Operational test, and clearance check good.
30. Eddy current inspection performed by ND Testing, reference APO 12519. Touch-up paint on leading edge of right flap I.A.W. Daher MM Chapter 51
31. Repaired damaged vertical box I.A.W. Daher MM Chapter 51.
32. Removed defective seal on right wing fuel access panel #631, and installed new seal I.A.W. Daher MM Chapter 52. Leak check good.
33. Removed defective seal on right wing fuel access panel #671, and installed new seal I.A.W. Daher MM Chapter 52. Leak check good.
34. Removed defective seal on crew door, and installed new seal I.A.W. Daher MM Chapter 52. Leak check good.
35. Removed defective by-pass duct seals on inertial separator, and installed new by-pass duct seals I.A.W. Daher MM Chapter 71.

AIRFRAME	Socata TBM 700	S/N: 664	N850FP
Work Order: 16072			Date: 9/3/2020
Tach:	Hobbs: 1389.4	TTSN: 1389.4	TLSN: 849

36. Reviewed Pilot's Operating Handbook and Supplements for revision currency with reference to Technical Publication Status issued online by Daher. Pilot's Operating Handbook and Supplements current at this time.

37. Performed test flight I.A.W. Daher MM Chapter 05-12-02.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 16072.



 3 Sep 2020

Date

(LBID:17010)

For: FAA Approved Repair Station C.R.S. X1IR595Y

AVEX, Inc.

C.R.S. X1ID595Y

11804 Corporate Way Broomfield, CO 80021 (720) 399-8008 Fax: (720) 541-9001

AIRFRAME

Socata TBM 700

S/N: 664

N850FP

Work Order: A16951

Date: 6/4/2021

Tach:

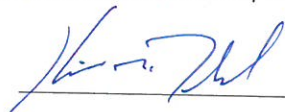
Hobbs: 1397

TTSN: 1397

TLSN:

1. Flap operation is intermittent and operates when selector is manipulated. Removed and replaced microswitches with new P/N Z00.N7531170007 I.A.W. Daher MM Chapter 27. Op checks good on ground.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. A16951.

  06/04/21

Date

(LBID:18114)

For: FAA Approved Repair Station C.R.S. X1ID595Y



AIRFRAME MFG: SOCATA-DAHER Model: TBM 700 S/N: 664 Work Order: MXCO186 N850FP
Hobbs: 1401.8 TTSN: 1401.8 TLSN: 866 Date: 09/15/2021

1. 1.1 Complied with an "A" Inspection plus Annual in reference to Daher MM Chapter's 05-20-03 and 05-20-05. All AD's checked through revision 2021-18; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.
2. 1.6 Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time. Battery next due replacement Nov / 2025.
3. 1.4 ELT battery due for mandatory replacement. Removed ELT battery P/N 452-0133 S/N 372319-022. Installed ELT battery P/N 452-0133 S/N 388935-023. All work performed I.A.W. Artex C406-1 manual chapter 25-62-10. Inspected I.A.W. FAR 91.207(d). Ops check good. Battery expiration date: Nov / 2025.
4. 4.9 Comply with Daher SB 70-293; for TBM 850/900 G1000 Nxi aircraft S/N 434 to 1159 with GDU SW20.80, downloading of software patch to activate visual approach guidance feature. Loaded software patch to activate visual approach function IAW Daher SB 70-293. Card left in aircraft card case. POH Supplement 66 Edition 0, Rev.1 is installed in POH.
5. 4.10 Comply with SB 70-281R2; GAS Controller upgrade AND Shut-Off Valve wiring modification in order to increase engine bleed airflow for improved heating and pressurization needs. Removed GAS controller P/N 82024A030601 S/N 82024-00352 and sent out to Daher for upgrades (Reference Avex PO21-00747.1). Performed wiring modification and re-installed modified GAS controller with upgrade P/N 82024A030701 S/N 82024-00352 I.A.W. SB 70-281R2 (reference Daher MOD70-0454-21). Ops check good.
6. 2.27 Complied with SB 70-118-27R1 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Daher MM Chapter 27. Operational check good.
7. 2.24 Complied with the 24 month cleaning of the outflow and safety valve seats I.A.W. Daher MM Chapter 21. Op checks good.
8. 1.8 Performed 12 month check of the slip clutch manual override for the B35, B36, B37 and B38 servo actuators I.A.W. Daher MM Chapter 22. Operational check good.
9. 2.23 Complied with the 12 month or 200 hour capacity check of the lead acid battery P/N: RG-380E/44 S/N 41033761 I.A.W. Daher MM Chapter 24-30-04. Operational check good. Battery passed at discharge voltage of 22 volts.

AIRFRAME MFG: SOCATA-DAHER	Model: TBM 700	S/N: 664	Work Order: MXCO186	N850FP
Hobbs: 1401.8	TTSN: 1401.8	TLSN: 866	Date: 09/15/2021	

10. 2.25 Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Daher MM Chapter 32; and lubricated landing gear axles I.A.W. Daher MM Chapter 12. No defects noted at this time. Operation and leak check good.
11. 2.26 Complied with the annual servicing of the oxygen system I.A.W. Daher MM Chapter 35. Op and leak checks good.
12. 1.28 Standby generator belt is weather cracked. Removed standby generator belt and AC compressor belt. Installed new standby generator belt and old AC compressor belt. Tensioned AC compressor belt to 125hz then tensioned standby generator belt to 146hz. Work done IAW Daher MM CH 24 and 21. Ops check okay.
13. 1.27 Standby generator low at 27.8 volts. Adjusted Standby generator voltage to within acceptable limits I.A.W. Daher MM Chapter 24-30-00.
14. 1.32 Left flap and motor resonate loud noise at the full down position. Carried out flap operation test and travel check I.A.W. Daher MM Chapter 27. Flap travel check is good and readings are recorded. During operation test, flap motor binding at LDG position with loud noise, although travel and operation seems normal at all flap positions. No Flap warning appears as CAS message. No further action is required at this time.
15. 1.16 Three flight control cable pulleys on left wing are worn. Replaced left wing spoiler/aileron control third cable pulley from wing root and set of top/bottom pulleys with new P/N N7701050051 I.A.W. Daher chapter 27-10-02.
16. 1.15 Right wing fuel vents are leaking. Defueled aircraft. Removed fuel access panel #674 and removed fuel vent. Installed fuel vent with new o-rings & applied sealant on dome nuts of access panel and vent valves. Post sealant curing time installed access panel #674. All work carried out I.A.W. Daher MM Chapter 28-10-03 and Chapter 52-40-01. Leak check good.
17. 2.34 Third cable pulley from wing root on right wing is worn. Replaced right wing spoiler/aileron control pulley (third pulley from wing root) I.A.W. Daher MM Chapter 27-10-02.Ops check good.
18. 1.26 Yaw servo cable tension is low. Adjusted yaw servo cable tension I.A.W. Daher MM Chapter 22-11-05.



C.R.S. X1ID595Y

Page 3 of 3

11804 Corporate Way Broomfield, CO 80021

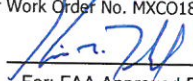
Phone: (720) 399-8008

Fax: (720) 541 - 9001

AIRFRAME MFG: SOCATA-DAHER Model: TBM 700 S/N: 664 Work Order: MXCO186 N850FP
Hobbs: 1401.8 TTSN: 1401.8 TLSN: 866 Date: 09/15/2021

19. 2.31 Nose wheel halves have pitting corrosion. Removed nose wheel (P/N 40-262AA S/N 1916) from nose tire. Assembled overhauled nose wheel (P/N 40-262AA S/N 1664) on old tire with new packings and NDT hardware. Balanced and serviced nose wheel, leak check okay. Work done IAW Daher MM CH 32 and Parker nose wheel CMM pages 4, 10-12.
20. 1.13 Elevator surface secondary stops top and bottom require adjustment for left and right surface. Adjusted left and right elevator secondary stops top and bottom to proper 0.040 gap clearance I.A.W. Daher MM Chapter 27.
21. 2.28 Reviewed Pilot's Operating Handbook and Supplements for revision currency with reference to Technical Publication Status issued online by Daher. Pilot's Operating Handbook and Supplements current at this time.
22. 1.2 Comply with a Post Inspection Flight after maintenance and A+Annual inspection. Performed Post-Inspection Flight I.A.W. Daher MM Chapter 5; Post-Inspection Checklist - 05-12-02.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. MXCO186

  09/15/21
For: FAA Approved Repair Station C.R.S. X1ID595Y Date



C.R.S. X1ID595Y

Page 1 of 1

11804 Corporate Way Broomfield, CO 80021

Phone: (720) 399-8008

Fax: (720) 541 - 9001

AVIONICS MFG: SOCATA-DAHER Model: TBM 700 S/N: 664 Work Order: MXCO186 N850FP
Hobbs: 1401.8 TTSN: 1401.8 TLSN: 866 Date: 09/15/2021

1. 4.5 Complied with the ESI 2000 equipment 3 year / 1200 hour recurring structural inspections as outlined in Chapter 2 of L-3 Communications Drawing No. 0031-32504-01; no defects found at this time.
2. 4.8 Complied with RVSM annual required check of the static pressure ports for condition and cleanliness I.A.W. Daher MM Chapter 34. No defects noted at this time.
3. 4.6 Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 004-32501-01. Op checks good. No defects noted at this time.
4. 4.7 Complied with RVSM annual required check of external surfaces I.A.W. Daher MM Chapter 53. No defects noted at this time.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. MXCO186



For: FAA Approved Repair Station C.R.S. X1ID595Y

Date

09/15/21

Replaced engine Torque Transducer S/N 982 with new Torque Transducer S/N
8675-4-353 I.A.W. Daher MM chapter 79.

10 minute ground run/leak check completed. No leaks found TQ indication
normal

Date: 12/27/2021

Hobbs: 1454.9

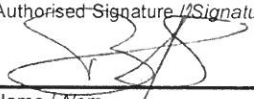
Aircraft Model: TBM 850 S/N 664

Engine Model : PT6A-66D S/N RV0327

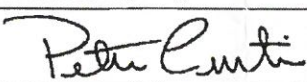
Matthew Nimmo

A&P # 003220993

A handwritten signature in black ink, appearing to read 'Matthew Nimmo', is written over the printed name and A&P number.

1. Approving Competent Authority / Country / <i>Autorité Compétente / Pays</i> DIRECTION GENERALE DE L'AVIATION CIVILE FRANCE		2. AUTHORISED RELEASE CERTIFICATE <i>Certificat Libérateur Autorisé</i> EASA FORM 1 <i>Formulaire 1 de l'EASA</i>			3. Form Tracking Number <i>N° de repère du Formulaire</i> 80269965/10	
4. Organisation Name and Address : <i>Nom et Adresse de l'Organisme :</i>		COMPAGNIE DAHER 35, cours Pierre Puget 13006 MARSEILLE FRANCE			5. Work Order / Contract / Invoice <i>Bon de commande/Contrat/facture</i> 4500961029	
6. Item / <i>Item</i>	7. Description / <i>Description</i>	8. Part No / <i>N° de pièce</i>	9. Qty / <i>Qté</i>	10. Serial No. / <i>N° Série</i>	11. Status/Work / <i>Etat/Travaux</i>	
10	TRANSDUCER KULITE P N APTE-438-1000-75D	N7161772403	2	(8765-4-353, 8765-4-357)	NEW	
12. Remarks / <i>Remarques</i> The part number in box 8 corresponds to part number from manufacturer documentation / La référence de la case 8 correspond à la référence de la documentation constructeur Z00N7161772403.						
13a. Certifies that the items identified above were manufactured in conformity to : <i>Certifie que les éléments identifiés ci-dessus ont été fabriqués conformément aux :</i> ☒ approved design data and are in a condition for safe operation <i>données de conception approuvées et sont en état de fonctionner en toute sécurité</i> ☐ non-approved design data specified in block 12 <i>données de conception non approuvées spécifiées dans la case 12</i>				14a. Part 145.A.50 Release to Service <i>Approbation pour remise en service selon Partie 145.A.50</i> Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part 145 and in respect to that work the items are considered ready for release to service. <i>Certifie que, sauf indication contraire spécifiée en case 12, les travaux identifiés en case 11 et décrits en case 12 ont été réalisés conformément à la partie 145 et qu'au vu de ces travaux, les pièces sont considérées prêtes à la remise en service.</i>		
13b. Authorised Signature / <i>Signature autorisée</i> 		13c. Approval/Authorisation Number <i>Numéro d'agrément/d'autorisation</i> FR.21G.0018		14b. Authorised Signature / <i>Signature autorisée</i>		14c. Certificate/Approval Ref.No <i>Numéro du Certificat/Agrément</i>
13d. Name / <i>Nom</i> Francis BARATS		13e. Date (dd mmm yyyy) / <i>Date (jj mmm aaaa)</i> 08 Oct 2021		14d. Name / <i>Nom</i>		14e. Date (dd mmm yyyy) / <i>Date (jj mmm aaaa)</i>
USER/INSTALLER RESPONSIBILITIES / Responsabilités de l'utilisateur/installateur This certificate does not automatically constitute authority to install the item(s). <i>Ce document ne constitue pas forcément l'autorisation d'installer l'(es) item(s).</i> 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 that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. <i>Quand l'utilisateur/installateur travaille selon les réglementations d'une autorité de navigabilité différente de l'autorité de navigabilité mentionnée dans la case 1, il est essentiel que l'utilisateur/installateur s'assure que son autorité de navigabilité accepte les items libérés par l'autorité de navigabilité mentionnée dans la case 1.</i> 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. <i>Les indications portées en cases 13a et 14a ne constituent pas une certification de montage. Dans tous les cas le dossier d'entretien de l'aéronef doit contenir une certification d'installation délivrée conformément aux règlements nationaux par l'utilisateur/installateur avant que l'aéronef puisse voler.</i>						

PART OR MATERIAL CERTIFICATION FORM

2. Seller's Name: PROPONENT				3. Reference No. 6469296-00		
4. Organization Address: 3120 E. Enterprise Street Brea, CA 92821 U.S.A				Phone: (714)223-5400 FAX: (714)996-3490 SITA Code: CVRKKCR		
5a. Contact No (Seller) 6469296-00				5b. Contact No. (Buyer) 46470031001		
6. Item	7. Description	8. Manufacturer & Part No.	9. Eligibility	10. Qty.	11. Serial/Batch No.	12. Status/Work
1	PACKING	AS3209-213 PARKER HANNIFIN CORP		480	703881-02	NEW
13a. Remarks						
Shipped To: AVIALL CENTRAL WAREHOUSE Date of MFR: 1Q2021						
13b. Obtained From: PARKER HANNIFIN CORP				13c. Last Cert. Agency		
14. New-unused Parts/Material Certification. The following signature attests that the part(s) or Material(s) identified above was (were) manufactured by an FAA approval holder and inspected in accordance with established industry of U.S. specification; and/or the airworthiness regulations of the country of origin.				18. Used, Repaired or Overhauled Parts Certification. The following signature attests that the documentation specified above or attached is accurate with regards to the item(s) described. Repaired parts conform and were inspected in accordance with the Code of Federal Regulations 14 and are approved for return to service.		
15. Signature 				19. Signature		
16. Name PETE CURTI, CORPORATE VICE PRESIDENT OF QUALITY		17. Date 05/28/21		20. Name		21. Date
The requirement for a signature on this form is by design and is such that it is binding from a legal standpoint, should the seller of a part or material complete the document and in any way misrepresent, lie or err in the information provided, the he/she is liable for legal judgement and in some cases criminal persecution.						

C.R.S. X1ID595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N850FP

Work Order No: MXCO1086

November 14, 2022

Airframe MFR: SOCATA-DAHER
HOBBS: 1,581.90Model: TBM 700
TSN: 1,581.90SN: 664
CSN: 976.00

1. Complied with a B inspection plus annual I.A.W. 14 CFR 91.409 and 14 CFR 43 Appendix D using the Daher MM Chapter 05-20-03, 05-20-05, Pratt and Whitney PT6A-66D, and Hartzell MM 147 as guides. All AD's checked through revision 2022-23; see AD compliance record provided with the airframe logbook.
2. Complied with the 24 month certification of the transponder system I.A.W. FAR 91.413. No defects found at this time. See test results provided with the airframe logbook.
3. Complied with the 24 month certification of the altimeter and static systems I.A.W. FAR 91.411. No defects found at this time. See test results provided with the airframe logbook.
4. Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time. Battery next due replacement 11/2025.
5. Complied with AD 2021-25-10 by ensuring that the oil cooler air induction duct does not have inlet fins. This AD is N/A by duct type and P/N. No further action required.
6. Complied with SB 70-304 (mandatory per Daher) by the modification of the emergency exit door panel in order to ease emergency door opening I.A.W. Daher SB 70-304.
7. Complied with SB 70-300 R2 by the addition of 5 amp fuse and fuse holder to B65 wiring (wire HNC65 at P42) which will separate protection of the air conditioning system from that of the pressurization system so that failure of one system will not affect the other I.A.W. Daher MM/MM Chapter 21-55-01 and Daher SB 70-300 R2. Spare fuse is located in the Fuse/Bulb Box.
8. Complied with SB 70-118-27 R1 Paragraph A by the check for play between the flap actuator drive nut and internal actuator rod I.A.W. Daher MM Chapter 27.
9. Complied with SB 70-118-27 R1 Paragraph C by the cleaning and lubrication of the left and right flap actuator rods I.A.W. Daher MM Chapter 27.
10. Complied with 1 year, 5 year, and 10 year nose landing gear long life inspections I.A.W. CMM 32-21-01. Operational test and leak check good.
11. Complied with 1 year, 5 year, and 10 year left main landing gear long life inspection I.A.W. CMM 32-10-01. Operational and leak check good

C.R.S. X11D595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N850FP

Work Order No: MXCO1086

November 14, 2022

Airframe MFR: SOCATA-DAHER
HOBBS: 1,581.90Model: TBM 700
TSN: 1,581.90SN: 664
CSN: 976.00

12. Complied with 1 year, 5 year, and 10 year right main landing gear long life inspection I.A.W. CMM 32-11-01. Operational and leak check good.
13. Removed 5-Blade propeller P/N HC-E5N-3C S/N RJ199 and sent to Rocky Mountain Propellers for overhaul per PO 22-51534. Reinstalled after overhaul I.A.W. Hartzell MM 147.
14. Removed oxygen cylinder P/N 2213-651G SN 651 for hydro test. Reinstalled PN 2213-6519 SN 651 after testing. Next test due 9/29/2022. All work performed I.A.W. Daher MM Chapter 35-11-01.
15. Complied with the 3 year replacement of the landing gear hydraulic fluid I.A.W. Daher MM Chapter 32. Operational and leak check good.
16. Complied with the 3 year replacement of the brake system hydraulic fluid I.A.W. Daher MM Chapter 32. Operational and leak check good.
17. Complied with the 3 year replacement of the shimmy damper Pure Silicone 100 cost hydraulic fluid I.A.W. Daher MM Chapters 12 and 32. Operational and leak checks are good.
18. Complied with RVSM annual required check of the static pressure ports for condition and cleanliness I.A.W. Daher MM Chapter 34.
19. Complied with RVSM annual required check of the pitot tubes for condition, attachment, cleanliness, and evidence of overheating I.A.W. Daher MM Chapter 34.
20. Complied with RVSM annual required check of external surfaces I.A.W. Daher MM Chapter 53.
21. Complied with RVSM annual required leakage test of static and dynamic systems and check of associated instruments I.A.W. Daher MM Chapter 34.
22. Performed 12 month check of the slip clutch manual override for the B35, B36, B37 and B38 servo actuators I.A.W. Daher MM Chapter 22. Operational check good.
23. Complied with the annual servicing of the oxygen system I.A.W. Daher MM Chapter 35. Operational and leak check good.
24. Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 0040-32501-01. Operational check good.

C.R.S. X1ID595Y **11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001**
N850FP **Work Order No: MXCO1086** **November 14, 2022**
Airframe **MFR: SOCATA-DAHER** **Model: TBM 700** **SN: 664**
 HOBBS: 1,581.90 **TSN: 1,581.90** **CSN: 976.00**

25. Complied with the 1200 hour tap and borescope inspection of the left aileron I.A.W. Daher MM Chapter 51. No defects found at this time.
26. Complied with the 1200 hour tap and borescope inspection of the left flap I.A.W. Daher MM Chapter 51. No defects found at this time.
27. Complied with the 1200 hour tap and borescope inspection of the right aileron I.A.W. Daher MM Chapter 51. No defects found at this time.
28. Complied with the 1200 hour tap and borescope inspection of the right flap I.A.W.. Daher MM Chapter 51. No defects found at this time.
29. Complied with the 1200 hour tap and borescope inspection of the left elevator I.A.W.. Daher MM Chapter 51. No defects found at this time.
30. Complied with the 1200 hour tap and borescope inspection of the right elevator I.A.W.. Daher MM Chapter 51. No defects found at this time.
31. Complied with the 1200 hour tap and borescope inspection of the rudder I.A.W.. Daher MM Chapter 51. No defects found at this time.
32. Complied with the 1200 hour ultrasonic (UT), tap, and borescope inspection of the left hand fixed horizontal stabilizer per Intermountain Testing Company, FAA CRS #FS6R104E NDE Services, Inc. I.A.W.. Daher MM Chapter 51-20-03. No anomalies were detected. (reference on file – see NDE Bond Test Certification Report – Work Order Number 22-01961).
33. Complied with the 1200 hour ultrasonic (UT), tap, and borescope inspection of the right hand fixed horizontal stabilizer per *Intermountain Testing Company, FAA CRS #FS6R104E NDE Services, Inc. I.A.W.. Daher MM Chapter 51-20-03. No anomalies were detected. (reference on file – see NDE Bond Test Certification Report – Work Order Number 22-01961).
34. The 1200-hour ultrasonic (UT) inspection of the vertical stabilizer surface were complied with by NDE Services, Inc., FAA CRS #FS6RS46N. I.A.W.. Daher MM Chapter 51-20-03. No anomalies were detected (reference on file – see NDE Bond Test Certification Report – Work Order Number 22-01961).
35. Complied with the 1000 landing overhaul of the left main landing gear wheel by removal of left main landing gear wheel P/N 40-434 S/N 1978 and sent to Aircraft Specialties Inc per PO 22-01957. Installed the overhauled left main landing gear wheel P/N 40-434 S/N 1978 I.A.W.. Daher MM Chapter 32-40-01 and Parker CMM 40-434.

C.R.S. X1ID595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N850FP

Work Order No: MXCO1086

November 14, 2022

Airframe MFR: SOCATA-DAHER
HOBBS: 1,581.90Model: TBM 700
TSN: 1,581.90SN: 664
CSN: 976.00

36. Complied with the 1000 landing overhaul of the right main landing gear wheel by removal of right main landing gear wheel P/N 40-434 S/N 1979 and sent to Aircraft Specialties Inc per PO 22-01957. Installed the overhauled right main landing gear wheel P/N 40-434 S/N 1979 I.A.W. Daher MM Chapter 32-40-01 and Parker CMM 40-434.
37. Complied with the 600 hour check of the alternator brushes and removed and replaced with new I.A.W. Daher MM Chapter 24. Operational checks are good.
38. Installed new tire pressure placard on nose landing gear. Work done I.A.W. Daher MM Chapter 11
39. Replaced fuel capacity placard on right wing with new. Work done I.A.W. Daher MM Chapter 11.
40. Adjusted B37 Yaw servo cable tension to 44 lbs. @ 65 degrees I.A.W. Daher MM Chapter 22-11-03.
41. Adjusted standby generator belt tension to within acceptable range. All work performed I.A.W. Daher MM Chapter 24.
42. Replaced battery P/N RG380E/44 S/N 71036761 with new battery P/N RG380E/44 S/N 41238350. Work done I.A.W. Daher MM Chapter 24.
43. During inspection of airframe fuel filter, found contaminants. Replaced with new filter and O-rings I.A.W. Daher MM Chapter 27.
44. Adjusted right spoiler cable tension to read 90 lbs. at 68 degrees I.A.W. Daher MM Chapter 27.
45. Adjusted right aileron cable tension to read 74 lbs. at 68 degrees. I.A.W. Daher MM Chapter 27.
46. Removed and replaced right fuel vents P/N N6084007281 S/N 12-102594 and P/N N6084007280 S/N 12-1031161 with new unit's P/N N6084007281 S/N 2478386-7 and P/N N6084007280 S/N 18-101575. Work done I.A.W. Daher MM Chapter 28.
47. Replaced S96 pressure switch with new, operational check good. All work done I.A.W. Daher MM Chapter 30.
48. Re-sealed exterior portion of inlet anti-ice surface on chin cowl I.A.W. Daher MM Chapter 30, and Chapter 71.
49. Nose gear shimmy. Found excessive amount of fluid in nose gear during 10 year inspection. Serviced correctly after inspection. Shimmy damper was inspected and fluid replace in conjunction with B inspection. Work done I.A.W. Daher MM Chapter 32 and 12.
50. Replaced left main tire PN 033-631-0 SN 7272S00308 with new tire PN 033-631-0 SN 1356T00251, O-rings, and NDT bolts. Work done I.A.W. Daher MM Chapter 32.

C.R.S. X11D595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N850FP

Work Order No: MXCO1086

November 14, 2022

Airframe MFR: SOCATA-DAHER
HOBBS: 1,581.90Model: TBM 700
TSN: 1,581.90SN: 664
CSN: 976.00

51. Replaced right main tire PN 033-631-0 SN 7276S00289 with new tire PN 033-631-0 SN 1354T00268, O-rings, and NDT bolts. Work done I.A.W. Daher MM Chapter 32.
52. Replaced left main landing gear lower piston retaining pin, upper torque link axle, lower torque link axle retaining bolt, bonding strap at torque links, aft ball joint, flexible brake line, large pin retaining bolt, lower door attach bolt, and lower torque link fork replaced. All work performed I.A.W. Daher MM Chapter 32.
53. Replaced right main landing gear lower door attaching bolt, flexible brake line, large pin retaining bolt, lower piston retaining pin, bonding strap at torque links, lower torque link fork, brake line clamp bolt, and upper and lower torque link retaining bolts. All work performed I.A.W. Daher MM Chapter 32.
54. Replaced left brake torque and pressure plates with overhauled units. Work performed I.A.W. Daher MM Chapter 32 and Parker CMM.
55. Replaced nose gear light lens with new. Work done I.A.W. Daher MM Chapter 33. Operational check good.
56. Cleaned and resealed upper traffic antenna screw sealant I.A.W. Daher MM Chapter 34-44-02-401.
57. Cleaned and resealed lower traffic antenna screw sealant I.A.W. Daher MM Chapter 34-44-02-401.
58. Repair performed by outside vendor AVEX PO 22-02071 by SMT Aero Structures. All work performed I.A.W. Daher MM Chapters 51 and 71.
59. Replaced main door seal with new and pressurized aircraft I.A.W. Daher MM Chapter 52 and Chapter 21. Pressure check good.
60. Replaced fuel vent panel gaskets on left and right wing. Work done I.A.W. Daher MM Chapter 52.
61. Replaced fuel panel 537 screws and gasket with new, applied new sealant to dome nuts. Work done I.A.W. Daher MM Chapter 52 and 28.
62. Checked max reverse and adjusted to specifications. Final torque 297.4 @ 1880 RPM. All work performed I.A.W. Daher MM Chapter 71 and Pratt and Whitney MM Chapter 71.
63. Replaced garlock seal, gasket, and O-ring on MT12 tachometer generator with new I.A.W. Daher MM Chapter 77. operational check ok.

C.R.S. X1ID595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N850FP

Work Order No: MXCO1086

November 14, 2022

Airframe MFR: SOCATA-DAHER
HOBBS: 1,581.90Model: TBM 700
TSN: 1,581.90SN: 664
CSN: 976.00

64. Reviewed Pilot's Operating Handbook and Supplements for revision currency with reference to Technical Publication Status issued online by Daher. Pilot's Operating Handbook and Supplements current at this time.
65. Updated the avionics databases I.A.W. Garmin PG 190-02348-00.
66. Performed test flight I.A.W. Daher MM Chapter 05-12-02.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. MXCO1086.



11/14/22

For: FAA Approved Repair Station C.R.S. X1ID595Y Date

N850FP	Work Order No: MXCO2231	December 22, 2023
Airframe MFR: SOCATA-DAHER	Model: TBM 700	SN: 664
HOBBS: 1,726.00	TSN: 1,726.00	CSN: 1,055.00

Complied with an A inspection plus annual I.A.W. 14 CFR 91.409 and 14 CFR 43 Appendix D using the Daher MM Chapter 05-20-03, 05-20-05, Pratt and Whitney PT6A-66D MM, and Hartzell MM 147 as guides. All AD's checked through revision 2023-26; see AD compliance record provided with the airframe logbook.

AD 2023-11-12, Emergency Exit Door Panel, was previously complied with I.A.W. SB 70-304 see log entry dated 11/14/2022. No further action required.

Complied with SB 70-118-27R2 Paragraph A by the check for play between the flap actuator drive nut and inboard actuator screw I.A.W. Daher MM Chapter 27.

Complied with SB 70-118-27R2 Paragraph C by the cleaning and lubrication of the left and right flap actuator screws I.A.W. Daher MM Chapter 27. Operational check good.

Complied with the 600 hour replacement of the air-conditioning compressor belt with new I.A.W. Daher MM Chapter 21. Operational check good.

Complied with the annual servicing of the oxygen system I.A.W. Daher MM Chapter 35. Operational and leak check good.

Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 0040-32501-01. Operational check good.

Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Daher MM Chapter 32. Lubricated landing gear axles I.A.W. Daher MM Chapter 12. Operational and leak check good.

Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time. Battery next due replacement 10/2025 for battery S/N 388935-023.

Complied with 12 month / 600 hour coin tap test of the erosion shield surface per Hartzell Manual 147 requirement and I.A.W. procedure outlined in Hartzell Manual 170.

Complied with 12 month or 200 hour capacity check of the lead acid battery P/N RG-380E/44 S/N 41238350 I.A.W. Daher MM Chapter 24-30-04. Operational check good.

Performed 12 month check of the slip clutch manual override for the B35, B36, B37, and B38 servo actuators I.A.W. Daher MM Chapter 22. Operational check good.

N850FP

Work Order No: MXCO2231

December 22, 2023

Airframe MFR: SOCATA-DAHER

Model: TBM 700

SN: 664

HOBBS: 1,726.00

TSN: 1,726.00

CSN: 1,055.00

Complied with RVSM annual required check of the static pressure ports for condition and cleanliness I.A.W. Daher MM Chapter 34.

Complied with RVSM annual required check of external surfaces I.A.W. Daher MM Chapter 53.

Complied with the 24 month cleaning of the outflow and safety valve seats I.A.W. Daher MM Chapter 21. Operational check good.

Complied with the 3 year swing of the standby compass I.A.W. Daher MM Chapter 34. Updated the compass card and installed in the aircraft.

Complied with the 10 year check of the firewall and the front cargo compartment upholstery panels I.A.W. Daher MM Chapter 25.

Complied with the 10 year or 10000 landing overhaul of electro hydraulic generator S/N 727 by replacement with overhauled electro hydraulic generator S/N 725 I.A.W. Daher MM Chapter 32. Operational and leak check good on ground swing of the landing gear system.

Complied with 10 year or 3500 hour replacement of the mechanical fuel pump P/N 1127-02 S/N 731 with overhauled mechanical fuel pump P/N 1127-02 S/N 1176 I.A.W. Daher MM Chapter 28. Operational and leak check good.

Exercised aircraft fuel drains I.A.W. Daher MM Chapter 12. Operational and leak check good.

Replaced the left spoiler bonding strap with new I.A.W. Daher MM Chapter 24.

Replaced starter generator brushes with new I.A.W. Thales CMM. Operational check good.

Removed LH side wall and found that Bose jack disconnect was unplugged. Connected and reinstalled LH sidewall. All work performed I.A.W. Daher MM Chapter 25. Operational check good.

Removed fire extinguisher P/N 10633 S/N C-90489746 and installed new fire extinguisher P/N 10633 S/N H13325083 I.A.W. Daher MM Chapter 26.

Adjusted the right spoiler cable tension I.A.W. Daher MM Chapter 27. Travel check good.

Adjusted left spoiler cable tension I.A.W. Daher MM Chapter 27. Travel check good.

Adjusted rudder cable tension I.A.W. Daher MM Chapter 27.

Removed the airframe fuel filter and found no contaminants, reinstalled the filter and ran the AUX boost pump and found no leaks. All work performed I.A.W. Daher MM Chapter 28.

N850FP

Work Order No: MXCO2231

December 22, 2023

Airframe MFR: SOCATA-DAHER

Model: TBM 700

SN: 664

HOBBS: 1,726.00

TSN: 1,726.00

CSN: 1,055.00

Defueled the left wing, removed the old hi-lock and installed the new hi-lock with sealant I.A.W. Daher MM Chapter 28. Leak check good.

Removed nose landing gear actuator P/N VSTS083560 S/N 3077 and installed overhauled nose landing gear actuator P/N VSTS083560 S/N 3077 I.A.W. Daher MM Chapter 32. Operational and leak check good.

Removed left landing gear actuator P/N VSTS083560 S/N 3066 and installed overhauled left main landing gear actuator P/N VSTS083560 S/N 3066 I.A.W. Daher MM Chapter 32. Operational and leak check good.

Removed right landing gear actuator P/N VSTS083560 S/N 3070 and installed overhauled right main landing gear actuator P/N VSTS083560 S/N 3070 I.A.W. Daher MM Chapter 32. Operational check good.

Removed and replaced worn right main landing gear brake back and pressure plates with overhauled units I.A.W. Daher MM Chapter 32 and Parker Hannifin CMM. Operational check good.

Replaced pilot overhead reading light bulb with new I.A.W. Daher MM Chapter 33. Operational check good.

Cleaned the vacuum relief filter I.A.W. Daher MM Chapter 37.

Updated databases after maintenance I.A.W. Garmin LMM 190-02348-00.

Applied alodine and primer to all of the exposed aluminum spots on the right side of the fuselage. All work performed I.A.W. Daher MM Chapter 51.

Mapped both the pilot and co-pilot windshields for delamination I.A.W. Daher MM Chapter 56. Delamination is within acceptable limits. **Check for growth at next annual.**

Split engine at "C" flange and removed hot section parts for inspection. Shipped the CT Disk P/N 3053740-01 S/N YUAA014A395, SED Assy. to Standard Aero and the outer liner P/N 3055663-01 S/N FTA663A0166 and inner liner P/N 3116790-01 S/N RWA06E889 to Unified Turbines for inspection & repairs. Reinstalled the above parts after repair I.A.W. the Pratt and Whitney MM for PT6A-66D MM Chapters 72-40-01 & 72-50-01/02. Average tip clearances between .017-.019. Operational and performance check good.

Performed calibration check of the ITT system I.A.W. Daher MM Chapter 77. All parameters found within limits.

Reviewed Pilot's Operating Handbook and Supplements for revision currency with reference to Technical Publication Status issued online by Daher. Pilot's Operating Handbook and Supplements current at this time.

Performed test flight I.A.W. Daher MM Chapter 05-12-02.

N850FP

Work Order No: MXCO2231

December 22, 2023

Airframe MFR: SOCATA-DAHER
HOBBS: 1,726.00

Model: TBM 700
TSN: 1,726.00

SN: 664
CSN: 1,055.00

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. MXCO2231.



Signature



12/22/23

Date

For: FAA Approved Repair Station # C.R.S. X1ID595Y

N850FP		Work Order No: MXCO3316	December 10, 2024
Airframe	MFR: SOCATA-DAHER	Model: TBM 700	SN: 664
HOBBS: 1,793.70		TSN: 1,793.70	CSN: 1,096.00

Complied with a "C" inspection plus annual in reference to Daher MM Chapter 05-20-03, 05-20-05, Pratt and Whitney PT6A-66D MM, and Hartzell MM 147. All AD's checked through revision 2024-24; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.

Complied with AD 2024-04-51 by confirming no affected PT2 blades listed in table 1 of Pratt and Whitney SB A14574 are installed. All work performed I.A.W. FAA AD 2024-04-51, Transports Canada CF-2024-05, and Pratt and Whitney SB A14574. No further action required.

Complied with SB 70-118-27R3 Paragraph A by the check for play between the flap actuator drive nut and inboard actuator screw I.A.W. Daher MM Chapter 27. No defects noted.

Complied with SB 70-118-27R3 Paragraph C by the cleaning and lubrication of the left and right flap actuator screws I.A.W. Daher MM Chapter 27. Ops check good.

Complied with SB 70-321R1; For TBM S/N 434 to 1407, installation of a more cost - effective set of replacement parts within the vapor cycle cooling system. Recovered freon. Removed condenser core P/N 2971A010001 S/N 2971-00372 and installed new condenser core P/N 296A32 S/N n/a. Removed receiver dryer P/N 8988A010001 S/N 8988-01196 and installed new receiver dryer P/N 1901351 S/N 1406242008. Removed cockpit evaporator core P/N 1714A010001, S/N 118R and installed new cockpit evaporator core P/N 1801128, S/N 1406241003. Removed cabin evaporator core P/N 3733A040000 S/N 2803R and installed new cabin evaporator core P/N 1801127, S/N 1406240017. Removed compressor P/N 1377A010001, S/N 1377-00349 and installed new compressor P/N 1101317, S/N 0708230045. Serviced A/C system and performed leak check. Work performed I.A.W. Daher MM Chapters 12, 21, and SB 70-321R1. Ops and leak check good.

Complied with SB 70-322; for TBM S/N 608 to 1484 and for TBM from S/N 434 to 607 having applied SB 70-235 (these TBM have the GSM 86 units), replacement of the cable retention pins for the B35 pitch SN 28K005246, B36 roll SN 28K005254, and B37 yaw SN 28K005247 servo actuators by applying Garmin SB 22117 I.A.W. SB 70-322.

Complied with RVSM annual required leakage test of static and dynamic systems and check of associated instruments I.A.W. Daher MM Chapter 34.

Complied with RVSM annual required check of the pitot tubes for condition, attachment, cleanliness, and evidence of overheating I.A.W. Daher MM Chapter 34.

Complied with RVSM required check of the air data system lines for condition, attachment, and wear due to chafing at hose connections I.A.W. Daher MM Chapter 34.

Complied with RVSM annual required check of external surfaces I.A.W. Daher MM Chapter 53.

N850FP		Work Order No: MXCO3316	December 10, 2024
Airframe	MFR: SOCATA-DAHER	Model: TBM 700	SN: 664
HOBBS: 1,793.70		TSN: 1,793.70	CSN: 1,096.00

Complied with RVSM annual required check of the static pressure ports for condition and cleanliness I.A.W. Daher MM Chapter 34.

Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Daher MM Chapter 32; and lubricated landing gear axles I.A.W. Daher MM Chapter 12. Ops and leak check good. No defects noted.

Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found. Battery next due replacement 11/2025.

Performed 12 month check of the slip clutch manual override for the B35, B36, B37 and B38 servo actuators I.A.W. Daher MM Chapter 22. Ops check good.

Complied with the annual servicing of the oxygen system I.A.W. Daher MM Chapters 35 and 12. Ops and leak check good.

Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 0040-32501-01. Ops check good. No defects noted..

Complied with the 24 month certification of the altimeter and static systems I.A.W. FAR 91.411. No defects noted. See test results provided with the airframe log book.

Complied with the 24 month certification of the transponder system I.A.W. FAR 91.413. No defects noted. See test results provided with the airframe log book.

Complied with the 3 month or 200 hour capacity check of the lead acid battery P/N RG-380E/44 S/N 41238350 I.A.W. Daher MM Chapter 24-30-04. Ops check good.

Complied with the 600 hour check of the alternator brushes, removed and replaced with new brushes I.A.W. Daher MM Chapter 24. Ops check good.

Complied with the 1500 hour or 4 year check of the fuel flapper valves in the left wing I.A.W. Daher MM Chapter 28. No defects noted.

Complied with the 1500 hour or 4 year check of the fuel strainer in the left wing I.A.W. Daher MM Chapter 28. No defects noted.

Complied with the 1500 hour or 4 year check of the fuel strainer in the right wing I.A.W. Daher MM Chapter 28. No defects noted.

Complied with the 1500 hour or 4 year check of the fuel flapper valves in the right wing I.A.W. Daher MM Chapter 28. No defects noted.

N850FP		Work Order No: MXCO3316	December 10, 2024
Airframe	MFR: SOCATA-DAHER	Model: TBM 700	SN: 664
HOBBS: 1,793.70		TSN: 1,793.70	CSN: 1,096.00

Complied with the 6000 hour or 10 year inspection of the vertical stabilizer for cracks/loose rivets and corrosion I.A.W. Daher MM Chapter 55. No defects noted.

Adjusted yaw servo cable tension to 48lbs at 70°F I.A.W. Daher MM Chapter 22. Travel check good.

Adjusted the alternator belt tension to 184 Hz I.A.W. Daher MM Chapter 24. Travel check good.

Adjusted left aileron cable tension to 82lbs at 73°F I.A.W. Daher MM Chapter 27. Travel check good.

Adjusted left spoiler cable tension to 92lbs at 72°F I.A.W. Daher MM Chapter 27. Travel check good.

Adjusted right aileron cable tension to 74lbs at 63°F I.A.W. Daher MM Chapter 27. Travel check good.

Removed worn left wing inboard spoiler pulley, third from inboard spoiler pulley and replaced with new pulleys I.A.W. Daher MM Chapter 27. Ops and travel check good.

Removed five worn right wing spoiler pulleys, replaced with new pulleys, and adjusted spoiler cable tension to 90lbs at 67°F I.A.W. Daher MM Chapter 27. Travel check good.

Removed worn right wing inboard aileron pulley and replaced with a new pulley I.A.W. Daher MM Chapter 27. Ops and travel check good.

Exercised aircraft fuel drains I.A.W. Daher MM Chapter 12. Ops and leak check good.

Repaired 1 pinhole on the right wing inboard de-ice boot I.A.W. Aerazur CMM Chapter 30. Ops and leak check good.

Removed GIA #2 P/N 011-01105-20 S/N 1HQ007913, installed overhauled GIA P/N 011-01105-20 S/N 1HQ017588, software and configuration loaded to GIA #2 I.A.W. Garmin G1000 NXI LMM 190-02383-00 Rev.2. Ops check good.

Mapped and measured two small dents on the left horizontal stabilizer top surface I.A.W. Daher MM Chapter 51. Re-inspect at next annual.

Removed weak front cargo door gas strut and replaced with new I.A.W. Daher MM Chapter 52. Ops check good.

Re-inspected and mapped delamination of the pilot and co-pilot windshields in Zone 2 I.A.W. Daher MM Chapter 56. Delaminations are within the Daher MM limitations for Zone 2. Measurements on file with work order MXCO3316. Re-inspect annually or every 200 hours for progression of defects.

Removed worn chafe tape on the inboard karmens, left, and right flaps and replaced with new chafe tape I.A.W. Daher MM Chapter 57.

N850FP		Work Order No: MXCO3316	December 10, 2024
Airframe	MFR: SOCATA-DAHER	Model: TBM 700	SN: 664
	HOBBS: 1,793.70	TSN: 1,793.70	CSN: 1,096.00

Adjusted the condition cable to have positive contact on high idle stop during travel I.A.W. Daher MM Chapter 76. Ops check good.

Replaced oil cooler union o-rings with new I.A.W. Daher MM Chapter 79. Leak check good.

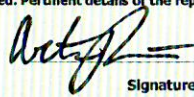
Side tone adjusted I.A.W. Garmin LMM 190-02383-00 Rev 2. Ops check good.

Adjusted fixed trim tab on right aileron I.A.W. Daher MM chapter 27.

Reviewed Pilot's Operating Handbook and Supplements for revision currency with reference to Technical Publication Status issued on-line by Daher.
Pilot's Operating Handbook and Supplements current at this time.

Performed test flight I.A.W. Daher MM Chapter 05-12-02.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. MXCO3316.

  12/10/24
Signature Date

For: FAA Approved Repair Station # C.R.S. X11R595Y



C.R.S. X1IR595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N850FP

Work Order No: MXCO4164

November 24, 2025

Airframe MFR: SOCATA-DAHER

Model: TBM 700

SN: 664

HOBBS:

TSN: 1,793.70

CSN:

Complied with an "A" inspection plus annual in reference to Daher MM Chapter 05-20-02 05-20-05, Pratt and Whitney PT6A-66D, and Hartzell MM 147. All AD's checked through revision 2025-23; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.

AD 2025-01-04, Paragraph (g)(2); for TBM S/N 1 to 1436 (not having MOD70-0777-27), before 3000 hrs TIS and then every 12 months or 400 hrs (whichever first), for the left and right flap inboard actuator, measuring the play between drive nut and the actuator rod I.A.W. Section A of SB 70-118R3. No discrepancies noted.

Complied with AD 2025-01-04, Paragraph (g)(1); for TBM S/N 1 to 1436 (not having MOD70-0777-27), for the left and right flap inboard actuator rods, 12 month or 400 hour (whichever comes first) cleaning and lubrication I.A.W. SB 70-118R3, Paragraph C. No defects noted.

Complied with the 3 year replacement of the shimmy damper Pure Silicone 100 CST hydraulic fluid I.A.W. Daher MM Chapter 12 and 32. Operational and leak check good.

Performed 12 month check of the slip clutch manual override for the B35, B36, B37 and B38 servo actuators I.A.W. Daher MM Chapter 22. Operational check good.

Complied with the 3 year replacement of the landing gear hydraulic fluid I.A.W. Daher MM Chapter 32. Operational and leak check good.

Complied with the annual inspection and controlled discharge of the ESI 2000 back up battery I.A.W. L-3 Install Manual 0040-32501-01. Operational check good. No defects noted at this time.

Complied with the 3 month or 200 hour capacity check of the lead acid battery P/N: RG-380E/44 S/N 41238350 I.A.W. Daher MM Chapter 24-30-04. Operational check good.

Complied with the 12 month certification of the ELT system I.A.W. FAR 91.207(d). No defects found at this time.

Adjusted fixed trim tab on right aileron. Work performed I.A.W. AC 43.13 Chapter 4 Section 4 Paragraph 4-55.

Complied with the 3 year replacement of the brake system hydraulic fluid I.A.W. Daher MM Chapter 32. Operational and leak check good.

Complied with RVSM annual required check of the static pressure ports for condition and cleanliness I.A.W. Daher MM Chapter 34.

Complied with RVSM annual required check of external surfaces I.A.W. Daher MM Chapter 53.



C.R.S. X1IR595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

Page 2 of 3

N850FP

Work Order No: MXCO4164

November 24, 2025

Airframe MFR: SOCATA-DAHER

Model: TBM 700

SN: 664

HOBBS:

TSN: 1,793.70

CSN:

Complied with the 24 month cleaning of the outflow and safety valve seats I.A.W. Daher MM Chapter 21. Operational checks good.

Complied with 1 year inspection of the left, right, and nose landing gears for condition, external and internal leaks in order for the landing gears to comply with the "Long Life Program" I.A.W. Daher MM Chapter 32; and lubricated landing gear axles I.A.W. Daher MM Chapter 12. Operation and leak check good. No defects noted at this time.

Installed new drainage placard on the 213 panel I.A.W. Daher TBM 850 MM Ch. 11.

Exercised aircraft fuel drains I.A.W. Daher MM Chapter 12. Ops and leak checks good.

Bottom VHF antenna fasteners resealed I.A.W. Daher MM 23-12-02.

Removed fraying right spoiler bonding strap and replaced with new I.A.W. Daher TBM 850 MM Ch. 24.

Removed and replaced the ELT battery with new ARTEX CMM C406-1 Chapter 25-62-10. Operational check good.

Removed b21 boost pump P/N 2022-B S/N 168945 and replaced with new one P/N 2022-B S/N 142501. Leak check good, work performed in reference to Daher MM CH. 28-20-05

Verified balance of both main tires I.A.W. Daher TBM 850 MM Ch. 32. No discrepancies found.

Databases up to date.

Complied with Service Letter 70-060; for TBM's S/N's 434 to 1215 by the removal of the cockpit right side crew oxygen mask P/N MC10-02-121 S/N SE70623 and replaced with new oxygen mask MC10-02-123 S/N B218835 equipped with "Smart Mike noise reduction" function I.A.W. Daher SL 70-060. Operational test and leak checks good.

Complied with Service Letter 70-060; for TBM's S/N's 434 to 1215 by the removal of the cockpit left side crew oxygen mask P/N MC10-02-121 S/N B000441 and replaced with new oxygen mask MC10-02-123 S/N B218219 equipped with "Smart Mike noise reduction" function I.A.W. Daher SL 70-060. Operational test and leak checks good.

Removed pilot side passenger oxygen mask with broken guard and replaced with new I.A.W. Daher TBM 850 MM Ch. 35-21-01. Ops check good.

Complied with the annual servicing of the oxygen system I.A.W. Daher MM Chapter 35. Operational and leak check good.



C.R.S. X1IR595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N850FP	Work Order No: MXCO4164	November 24, 2025
Airframe MFR: SOCATA-DAHER	Model: TBM 700	SN: 664
HOBS:	TSN: 1,793.70	CSN:

Adjusted Vacuum two full turns in the increasing direction and achieved a suction of 4.9 inHg. All work completed in reference to Daher TBM 850 M.M. Chapter 37-10-03

Adjusted rod end of left main landing gear actuator in to bring lower landing gear door flush with wing I.A.W. Daher TBM 850 MM Ch. 32-30-01

Adjusted main door seal to remove bulging I.A.W. Daher MM Ch. 52-11-00.

Re-inspected and mapped delamination on pilot and co-pilot windshield, no growth found. Found one new spot of delam on upper left hand side of the co-pilot windshield within tolerance. Re-map and measure annually. work performed in reference to Daher MM CH. 56-10-00

Removed stripped oxygen fairing snap screw and replaced with new I.A.W. Daher TBM 850 MM Ch. 57-10-00.

Reviewed Pilot's Operating Handbook and Supplements for revision currency with reference to Technical Publication Status issued online by Daher. Added TR32 Pilot's Operating Handbook and Supplements current at this time. POH is up to date as of 21NOV2025.

Performed test flight I.A.W. Daher MM Chapter 05-12-02.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. MXCO4164.

 11/24/2025
Signature Date

For: FAA Approved Repair Station # C.R.S. X1IR595Y