

CHAPTER 31

INDICATING / RECORDING SYSTEMS



AIROD SDN BHD

EQUIPMENT LIST

HELICOPTER: AW 139

CHAPTER: 31

S/N: 31291

PART NUMBER	COMPONENT DESCRIPTION	MANUFACTURER	MFG PART NUMBER	SERIAL NUMBER	DR NO	REMARKS

EQUIPMENT LIST

HELICOPTER: **AW139**

DATE: **23/03/2010**

CHAPTER 31

S/N 31291

PART NUMBER (3)	COMPONENT DESCRIPTION (4)	MANUFACTURER (5)	MFG PART NUMBER (6)	SERIAL N. (7)	NOTES (8)
	COPILOT DIGITAL CLOCK	ASTRO TECH.	AT660100	07310	
	PILOT DIGITAL CLOCK	ASTRO TECH.	AT660100	07309	
3G3110V00451	MISCELLANEOUS CONTROL PANEL	SIRIO PANEL		S09640887	
3G3120A00231	MAGNETIC COMPASS	AIRPATH	C2300L4-24B	AG3330	
3G3150V00353	PILOT MASTER ILLUMINATED (C/W.)	SIRIO PANEL	727-0565/01	S09560043	
3G3150V00453	COPILOT MASTER ILLUMINATED (C/W.)	SIRIO PANEL	727-0565/02	S09560289	
	ELT / NAV INTERFACE INST.	ARTEX	453-6500	08029	
	ELT R/T	ARTEX	455-5012-247	170-11166	Cod. 42A855573CFFBFF
452-0133	* ELT BATTERY	ARTEX	452-0133	170-11166	EXP. BATTERY 10/2014
	ANTENNA ELT	ARTEX	110-320	295028	
D51615-102	* MULTI-POURPOSE FLIGHT RECORDER	PENNY & GILES	D51615-102	387666-001	EXP. BATTERY 11/2015 removed @ 10790 A/H
	COCKPIT CONTROL UNIT	PENNY & GILES	D51616-102	009635-003	
REF. 31A-31-42-00-	PWR SUPPLY MANU	AGUSTA	7024440-1901	05063492	Removed @ 532.30 A/H HPS. (DR: 406/BOP)
00A-720X-A	PWR SUPPLY MANU	AGUSTA	7024440-1901	0904D834	
D51615-102	MULTI-POURPOSE FLIGHT RECORDER	PENNY & GILES	D51615-100	00272-001	DR: 856/BOP
452-0133	ELT BATTERY	ARTEX	452-0133	357585-001	DR: 660/BOP DR: 838.50 Removed TC0197/BOP

EQUIPMENT PRECEDED BY AN ASTERISK (*) REQUIRE A LOG CARD



EQUIPMENT LIST

HELICOPTER: AH 139

CHAPTER: 31

S/N: 31291

PART NUMBER	COMPONENT DESCRIPTION	MANUFACTURER	MFG PART NUMBER	SERIAL NUMBER	DR NO	REMARKS
452-0133	ELT BATTERY	ARTEX	452-0133	377802-019 (452-5132)	TC0197/BOD	P-T10 @ 1226.704/hrs
452-0133	ELT BATTERY	ARTEX	452-0133	377802-019	TC0197/BOD	EXP. JUL/2023



LOG CARD

Sezione 1

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

Chapter n°

Part n°

DESCRIPTION (1) ELT BATTERY PACK	P/N (2) 452-0133	S/N (3) 377802-019	MANUFACTURER NAME (4) ARTEX	ASSEMBLY DATE (5)	RETIREMENT LIFE (6) REFER ARC
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE (11)
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE (11)

NOTES (12)

EXPIRY DATE : JULY 2023

ASSEMBLY HISTORICAL RECORD

INSTALLATION							REMOVAL							
DATE (13)	A/C		ASSY			ORGANIZATION (19)	STAMP AND SIGNATURE (20)	DATE (21)	A/C TOTAL TIME (22)	ASSY		REASON OF REMOVAL (25)	ORGANIZATION (26)	STAMP AND SIGNATURE (27)
	R. MARKS (14)	N/C (15)	TOTAL TIME (16)	TOTAL TIME (17)	TIME SINCE OH (18)					TOTAL TIME (23)	TIME SINCE OH (24)			
23.09 2019	9M- BOD	31291	2234- 50	0.00	NEW	AIROD								



LOG CARD

Sezione 2

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

Chapter n°

Part n°

LIMITED LIFE COMPONENTS INSTALLED ON ASSY

COMPONENT DATA				INSTALLATION				REMOVAL			
DESCRIPTION (28)	P/N (29)	S/N (30)	RETIREMENT LIFE (31)	ASSY TOTAL TIME (32)	COMP. TOTAL TIME (33)	COMP. TIME SINCE OH (34)	STAMP AND SIGNATURE (35)	ASSY TOTAL TIME (36)	COMP. TOTAL TIME (37)	COMP. TIME SINCE OH (38)	STAMP AND SIGNATURE (39)



LOG CARD

Sezione 3

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

Chapter n°

Part n°

ACTIVITY RECORD

DATE (40)	ASSY TOTAL TIME (41)	TASK (42)	ACTIVITY (43)	DATE (44)	ORGANIZATION (45)	STAMP AND SIGNATURE (46)



LOG CARD

Sezione 4

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

Chapter n°

Part n°

DIRECTIVES COMPLIANCE

MANDATORY DIRECTIVES					OPTIONAL DIRECTIVES				
DIRECTIVE NUMBER (47)	ISSUE (48)	DATE OF COMPLIANCE (49)	ORGANIZATION (50)	STAMP SIGNATURE (51)	DIRECTIVE NUMBER (47)	ISSUE (48)	DATE OF COMPLIANCE (49)	ORGANIZATION (50)	STAMP SIGNATURE (51)

1. Approving Civil Aviation Authority / Country FAA / UNITED STATES	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 20180420_J_J_287838
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4. Organization Name and Address: ACR Electronics, Inc. 5757 Ravenswood Road, Fort Lauderdale, FL 33312-6603	5. Work Order / Contract / Invoice Number: PT1113CE / PQ1113CE 45869991
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6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status / Work
1	ARTEX BATTERY PACK 406 SERIES LITHIUM LM	452-0133	140	377800-001 THRU 377800-040, 377801-001 THRU 377801-040, 377802-001 THRU 377802-040, 377803-001 THRU 377803-020	NEW

12. Remarks:

AIRWORTHINESS APPROVAL
 Item 1 is a Sub-Component of TSO C126 Article and Component of TSO C142 Article.
 BATTERY EXPIRATION DATE: JUL / 2023.
 Pre-Approval No.: 946052990-2018-0032.

 END OF REMARKS

13a. Certifies the items identified above were manufactured in conformity to:	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12
<input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation.	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.
<input type="checkbox"/> Non-approved design data specified in Block 12.	

13b. Authorized Signature: 	13c. Approval / Authorization No: 946052990	14b. Authorized Signature	14c. Approval / Certificate No.
13d. Name (Typed or Printed) Jorge A. Sosa	13e. Date (dd/mm/yyyy) 20-Apr-2018	14d. Name (Typed or Printed)	14e. Date (dd/mm/yyyy)

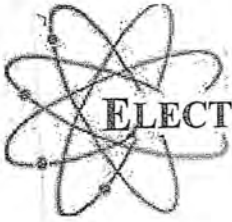
User / Installer Responsibilities

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 his/her airworthiness authority accepts aircraft engine(s)/propellers/articles 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 0052-00-012-9005



EMAIL: emaca@westworld.com
 TELEPHONE: (818) 998-2527 FAX: (818) 998-3304
ELECTRONIC MANUFACTURERS ASSOCIATED
 9707 Mason Avenue, Chatsworth, California 91311 USA



No: M18-0359

CERTIFICATE OF CONFORMITY

ORIGINAL

Bill To:

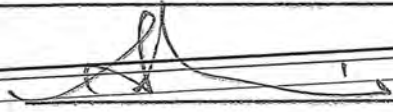
Ship To:

AIROD SDN BHD JALAN TUDM SUBANG SELANGOR DARUL EHSAN, 47200 MALAYSIA	AIROD SDN BHD SAME VENDOR CODE# AVL-077/98 GST NO. 000628228096
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Customer PO	EMA SO	Ship Date	Airway Bill Number
NAY/18-271	PO18-0145	6/18/2018	

Part No.	Description	Cond	Qty	S/L	Control #	Cert No
452-0133 Serial#:377802-020	LITHIUM BATTERY PACK	NE	1	3	78483-1	
452-0133 Serial#:377802-019 ✓	LITHIUM BATTERY PACK	NE	1	4	78483-2	
452-0133 Serial#:377802-016	LITHIUM BATTERY PACK	NE	1	5	78483-3	

We hereby certify that the parts(s) on this document are in new (NE) condition unless otherwise noted under (Cond) column. These parts were manufactured in accordance with applicable manufacturer (& OR) customer, FAA/PMA, MIL-Spec., Government's specification. All supporting documents related to the above parts are maintained at our facility.

Signed:  Department Selina Waters	Inspectors Stamp EMA 87
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ASSEMBLY HISTORICAL RECORD

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED

CHAP. N° 38-42
PART.

ASSEMBLY NAME PWR SUPPLY MAN PART. N° 7024440-1901 SERIAL N° 0904D834 ASSEMBLY DATE 27.12.10 RETIREMENT LIFE ∞ (HOURS)

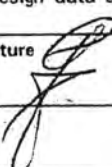
ARC NO: AGU-200-1T20-35635 DTD 27.12.2010 MFG: HONEYWELL INTL. INC (P.O: NAS/11-5452)

INSTALLATION

REMOVAL

DATE	INSTALLED ON A/C		ACTIVITY	A/C TOTAL TIME	ASSY LIFE		SIGNATURE	DATE	A/C TOTAL TIME	ASSY LIFE		REASON OF REMOVAL
	BUREAU N° REGISTRATION MARKS	SERIAL N°			TOTAL TIME	TIME SINCE OH				TOTAL TIME	TIME SINCE OH	
<u>29.08.2013</u>	<u>9M-B00</u>	<u>31291</u>	<u>AIROD</u>	<u>532.30</u>	<u>0.00</u>	<u>NEW</u>	<u>DR. [Signature]</u> <u>P/G 77</u> <u>AGB</u>					

Mod. AG GEN 186 | 01

1. Approving Competent Authority/Country ENAC / ITALY		2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1			3. Form Tracking Number AGU - 2010 - IT20 - 35635	
4. Organisation name and address: Agusta S.p.A. via Giovanni Agusta 520 21017 Cascina Costa di Samarate (VA), Italy				5. Work Order/Contract/Invoice Ref. P.L. N. 70120683		
6.Item	7.Description	8.Part No	9.Qty.	10.Serial No	11.Status/Work	
000001	PWR SUPPLY MAU	7024440-1901	1	0904D834	NEW	
12. Remarks						Page: 1 of 1
000001 ORIGINAL RELEASE: HONEYWELL INTERNATIONAL INC. FAA FORM 8130-3 N° CM25747 enclosed. INSPECTED/TESTED I.A.W. INTERNAL PROCEDURE AQ 10-13						
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> approved design data and are in a condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12				14a. <input type="checkbox"/> Part 145.A.50 Release to Service <input type="checkbox"/> Other Regulation Specified in block 12 <small>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</small>		
13b. Authorised Signature 		13c. Approval/Authorisation Number IT.21G.0007		14b. Authorised Signature		14c. Certificate/Approval Ref.N.
13d. Name		13e. Date (dd/mmm/yyyy) 27/Dec/2010		14d. Name		14e. Date (dd/mmm/yyyy)

EASA Form 1-21 Issue 2.

Note: MAY/11 - 5452 DTD 29.09.11
(Ref: DR: 406/BOD DTD 29.08.13)



LOG CARD

Section 1

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

Chapter n° 31
Part n°

DESCRIPTION (1) MULTI - PURPOSE FLIGHT RECORDER	P/N (2) D91615-102	S/N (3) 002722-001	MANUFACTURER NAME (4) PENNY & GILES	ASSEMBLY DATE (5) 06.06.2008	RETIREMENT LIFE (6) 06 (6yrs)
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE (11)
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE (11)

NOTES (12)
ARC NO: AGU-2008-16597 DTD 06.06.2008
(ATTACHED) Note beacon battery P/N. 810-2008/K S/N. Lot 2806-010 (DUE: 31 JULY 2021)
DUE: 07.07.2021

ASSEMBLY HISTORICAL RECORD

INSTALLATION							REMOVAL						
DATE (13)	A/C		ASSY		ORGANIZATION (19)	STAMP AND SIGNATURE (20)	DATE (21)	A/C TOTAL TIME (22)	ASSY		REASON OF REMOVAL (25)	ORGANIZATION (26)	STAMP AND SIGNATURE (27)
	R. MARKS (14)	N/C (15)	TOTAL TIME (16)	TIME SINCE OH (18)					TOTAL TIME (23)	TIME SINCE OH (24)			
08.07.2015	9M-BED	31291	1104.90	0.00	NEW	AIROP (DR: 856/BED)							

Certified
 received
 issued
 copy of
 to upon
 signature
 partner

1. Approving Competent
 Authority/Country
 (Autorità Competente per l'Approvazione/
 Paese d'Approvazione)
ENAC / ITALIA

AUTHORISED RELEASE CERTIFICATE EASA FORM 1
 (Certificato di riammissione in servizio - EASA Modello 1)

3. Form Tracking Number
 (Codice Documento)
AGU-2008 - 16597

4. Approved Organization Name and Address
 (Denominazione e Indirizzo dell'Impresa Approvata)
Agusta S.p.A.
via Giovanni Agusta 520
21017 Cascina Costa di Samarate (VA), Italy

5. Work Order/Contract/Invoice
 (Ordine di Lavoro/Contratto/Fattura)
RIF. PACK.L. N. 70006795

6. Item (N. prog)	7. Description (Descrizione)	8. Part No (P/N)	9. Eligibility(*) (Impiegabile su)*	10. Quantity (Quantità)	11. Serial/Batch No (N. Serie/Lotto)	12. Status/Work (Stato/Tipo di Intervento)
000009	RING, RETAINING	M2742630135A	VARIOUS	2	N.A.	MANUFACTURED
000010	MULTIPURPOSE FLIGHT RECORDER	D51615-102	VARIOUS	1	002722-001	INSPECTED/TESTED
000011	MLG WHEEL BEARING	13685	VARIOUS	10	N.A.	MANUFACTURED
000012	NLG WHEEL BEARING	13889	VARIOUS	4	N.A.	MANUFACTURED
000013	MLG WHEEL SEAL	5011064	VARIOUS	4	N.A.	MANUFACTURED
000014	NLG WHEEL SEAL	9524218	VARIOUS	4	N.A.	MANUFACTURED

13. Remarks (Annotazioni)
 000010 ORIGINAL RELEASE: PENNY & GILES EASA FORM 1 N°. PGAE 01991

Pagina: 3 di 8
 Page: of

14. Certifies that the items identified above were manufactured in conformity to:
 (Si certifica che gli items sopra indicati sono stati prodotti in conformità a:)
 approved design data and are in condition for safe operation
 dati di progetto approvati e sono in condizione di operare in sicurezza
 non approved design data specified in block 13
 dati di progetto non approvati specificati nel campo 13

19. Part 145.A.50 Release to Service (parte 145.A.50 riammissione in servizio) Other Regulation Specified in block 13 (Altra norme specificate nel campo 13)
 Certifies that unless otherwise specified in block 13, the work identified in block 12 and described in block 13, was accomplished in accordance with part 145 and in respect to that work the items are considered ready to Release to Service
 si certifica che, se non diversamente specificato nel campo 13, i lavori identificati nel campo 12 e descritti nel campo 13, sono stati eseguiti in accordo con la parte 145 ed in relazione ai suddetti lavori gli items sono considerati pronti per la riammissione in servizio

15. Authorised Signature (Firma Autorizzata)

16. Approval/Authorisation Number (Approvazione/No. di Autorizzazione)
IT.21G.0007

20. Authorised Signature (Firma Autorizzata)

21. Certificate/Approval Ref.N. (N.di Rif. Certificato/Approvazione)

17. Name (Nome e Cognome)

18. Date (dd/mmm/yyyy) (Data gg/mmm/aaaa)
06-Jun-2008

22. Name (Nome e Cognome)

23. Date (dd/mmm/yyyy) (Data gg/mmm/aaaa)

(*) Installer must cross-check eligibility with applicable technical data (l'installatore deve verificare l'impiego con dati tecnici applicabili)

Bod



LOG CARD

Sezione 1

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

Chapter n°
Part n°

DESCRIPTION BATTERY MPFR DT 31-04	P/N (2) 810-2008/K	S/N (3)	48MANUFACTURER NAME (4) DUKANE	ASSEMBLY DATE (5) 05/15	RETIREMENT LIFE (6)O
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE (11)
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE (11)

NOTES (12)
BN: 2806-010 DUE: July 2021

ASSEMBLY HISTORICAL RECORD

INSTALLATION								REMOVAL						
DATE (13)	A/C		ASSY			ORGANIZATION (19)	STAMP AND SIGNATURE (20)	DATE (21)	A/C TOTAL TIME (22)	ASSY		REASON OF REMOVAL (25)	ORGANIZATION (26)	STAMP AND SIGNATURE (27)
	R. MARKS (14)	N/C (15)	TOTAL TIME (16)	TOTAL TIME (17)	TIME SINCE OH (18)					TOTAL TIME (23)	TIME SINCE OH (24)			
30.05 2019	9M- BOD	31291	2039. 60	00.00	NEW	AIROD (Tc0135/BOD)								

LOG CARD

NOTICE: WHEN THIS ASSY IS RETURNED FOR ANY REASON TO AN AGUSTA GROUP FACILITY, PLEASE SEND THIS FORM UPDATED.

Sezione 2

Chapter n°

Part n°

LIMITED LIFE COMPONENTS INSTALLED ON ASSY

COMPONENT DATA				INSTALLATION				REMOVAL			
DESCRIPTION (28)	P/N (29)	S/N (30)	RETIREMENT LIFE (31)	ASSY TOTAL TIME (32)	COMP. TOTAL TIME (33)	COMP. TIME SINCE OH (34)	STAMP AND SIGNATURE (35)	ASSY TOTAL TIME (36)	COMP. TOTAL TIME (37)	COMP. TIME SINCE OH (38)	STAMP AND SIGNATURE (39)

1. Approving Civil Aviation Authority/Country FAA/United States	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 2479
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4. Organization Name and Address: PT4200CE Dukane-Seacom 7135 16th St. E, Suite 101 Sarasota, FL 34243	5. Work Order/Contract/Invoice Number: 156986-00
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6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work
1	REPLACEMENT BATTERY KIT - DK140, DK120	810-2008/K	11.00	N/A	NEW

TRUE COPY
Kyle Hogan
Final Insp./Shipper
SEAL DYNAMICS.

12. Remarks:
Export Airworthiness Approval - This article meets the special requirements of Republic of Italy. The article is used in support of TSO-C121. The listed article(s) are conforming in accordance with 14 CFR Part 21. The article shipped under this approval is manufactured per Drawing 810-2008/K Rev. A Dated 02/13/2014 and is Lot # 2806-010 and is not a critical component. Ship to SEAL DYNAMICS (DOM: MAY 2015, RBB: JUL 2021)

13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specific to 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 respect to that work, the items are approved for return to service.
--	--

13b. Authorized Signature: <i>Londa Deneen Votaw</i>	13c. Approval/Authorization No: 398441642	14b. Authorized Signature:	14c. Approval/Certificate No:
13d. Name (typed or Printed): Londa Deneen Votaw	13e. Date(dd/mmm/yyyy): 12/May/2015	14d. Name (Typed or Printed):	14e. Date (dd/mmm/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 work in accordance with the national regulations of an Airworthiness Authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in block 1. Statements in block 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.