

1. Approving Civil Aviation
Authority/Country:

2.

3. Form Tracking Number:

FAA/United States

AUTHORIZED RELEASE CERTIFICATE

RMA95909

4. Organization Name and Address:

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG
ASTRONICS ADVANCED ELECTRONIC SYSTEMS, 12950 WILLOWS RD. N.E.
KIRKLAND, WA 98034

5. Work Order/Contract/Invoice Number:

S191155

6. Item:

7. Description:

8. Part Number:

9. Quantity:

10. Serial Number:

11. Status/Work:

1

IN-SEAT POWER SUPPLY, AC2 OUTPUT, CIRCULAR

1191-38

1

112260

MODIFIED

12. Remarks:

The work specified has been accomplished in accordance with CMM 25-21-11 Rev 3, 11 Oct 2016.
Incorporated Mod B IAW SB 1191-25-02 Rev New, 27 Oct 2014.
Hardware is Mod: B

Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA.145.4787.
The aircraft component identified above was tested and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the work performed are on file at this repair station under work order in block 5.

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:

13c. Approval/Authorization No.:

14b. Authorized Signature:

14c. Approval/Certificate No.:

13d. Name (Typed or Printed):

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

14d. Name (Typed or Printed):

14e. Date (dd/mm/yyyy):

TRACEY GASPA

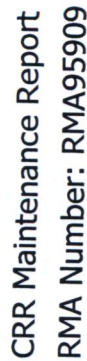
25 JUN 2018

AH4R050M

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)/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.



Last Ship Date: 2/13/2014

AES Comments: Electrical: Passed incoming ATE; No fault found.
Modification: Incorporate Mod B.

Acceptance Test: ATE Minh Nguyen(MTNGUYEN)
6/21/2018

Tracey Gaspa 06/25/2018
for Astronics AES

Document # ES41601

ATP ACCEPTANCE TEST REPORT

ATP Core SW: SM1307-004 Rev A

ATP Test Script: SM1191-006-038 Rev D, 1191-38 ATP.xml

ATP Test Lib: SM1191-006 Rev Y

Astronics P/N: 1191-38

S/N: 112260

Test Personnel: _____

Quality Assurance: _____

Computer Name: W7X3467

Test Result: **PASS**

Run Time: 06/21/18 14:59:37

Date: **JUN 21 2018**Date: **JUN 25 2018**

User: apctest

Step	Description	Value	Result
4.1.9	Verify AC source settings: 115VAC 400Hz	114.83 399.97	PASS
5.1.3a	400Hz Power LEDs are ON: 0.0V to 1.0V	0.83 0.82 0.82	PASS
5.1.3b	IN-USE LEDs are ON: -1.0V to 2.5V	0.23 0.24	PASS
5.1.4	RS-485 Address Data = 0xB	0xB	PASS
5.1.6	Software Version Number = R03.00	R03.00	PASS
5.1.7	Program UUT Serial Number	'112260'	PASS
5.2.8	LED_V (In-Use A) is OFF: 4.5VDC to 5.5VDC	4.6395	PASS
5.3.1	Internal Temperature (RS-485 readback): 18C to 30C	24.0000	PASS
5.4.2	RS-485 Address Data = 0xB	0xB	PASS
5.4.5	RS-485 Address 2 Data = 0x13	0x13	PASS
5.4.8	RS-485 Address 3 Data = 0x23	0x23	PASS
5.4.11	RS-485 Address 4 Data = 0x43	0x43	PASS
5.4.17	RS-485 Address 1 Data = 0xB	0xB	PASS
5.5.1a.1-AMCU	AMCU to RESTRICTED; Turn Off In-Use LEDs		PASS
5.5.1a.2-AMCU	PWR IN Data Line: 9.5VDC to 14.5VDC	12.2028	PASS
5.5.1b.1-AMCU	Pwr Avail LEDs are OFF: -1.0V to 1.0V	0.0 0.0	PASS
5.5.1b.2-AMCU	In-Use LEDs are OFF: 2.5V to 5.0V	3.68 3.90	PASS
5.5.1c-AMCU	RS-485 DISABLED Indicator: F0 78 01	F0 78 1	PASS
5.5.2a-AMCU	AMCU to ENABLED; Pwr Avail LEDs are GREEN: 1.0V to 2.5V	2.07 2.04	PASS
5.5.2b-AMCU	RS-485 ENABLED Indicator: F0 20 02	F0 20 2	PASS
5.5.3a-AMCU	In-Use LEDs are ON: -1.0V to 2.5V	0.23 0.24	PASS
5.5.3b-AMCU	RS-485 ENABLED Indicator: F6 20 02	F6 20 2	PASS
5.5.4a-AMCU	In-Use LEDs are ON: -1.0V to 2.5V	0.23 0.24	PASS
5.5.5a-AMCU	In-Use LEDs are OFF: 2.5V to 5.0V	3.68 3.88	PASS
5.5.5b-AMCU	Pwr Avail LEDs are OFF: -1.0V to 1.0V	0.0 0.00	PASS
5.5.6a-AMCU	In-Use LEDs are OFF: 2.5V to 5.0V	3.68 3.93	PASS
5.5.6b-AMCU	Pwr Avail LEDs are OFF: -1.0V to 1.0V	0.0 0.0	PASS
5.6.1	Individual Mode; Turn Off In-Use LEDs		PASS
5.6.5	In-Use LED 2 is ON (-1.0V to 2.5V)/LED 3 is OFF	0.23 3.69	PASS
5.6.7	In-Use LED 3 is ON (-1.0V to 2.5V)/LED 2 is OFF	3.87 0.24	PASS
5.7.1	Change Load Mangement Limits to 250VA/225VA/200VA	250 225 200	PASS
5.8.2	AC #2 No Load Voltage: 111VAC to 121VAC	114.6273	PASS
5.8.4a	AC #2 @150W Full Load Voltage: 104.5VAC to 115.5VAC	106.9931	PASS
5.8.4b	AC #2 Frequency: 57Hz to 63Hz	59.1716	PASS
5.8.4c	AC #2 @150W Power (RS-485) Full Load: 135VA to 165VA	140VA	PASS
5.9.2	AC #3 No Load Voltage: 111VAC to 121VAC	114.5282	PASS
5.9.3a	AC #3 @150W Full Load Voltage: 104.5VAC to 115.5VAC	107.4502	PASS
5.9.3b	AC #3 Frequency: 57Hz to 63Hz	59.3120	PASS
5.9.3c	AC #3 @150W Power (RS-485) Full Load: 135VA to 165VA	138VA	PASS
5.11.4a.1	AC #2 @150W: Pwr Avail LED GREEN Full Load: 1.0V to 2.5V	2.0600	PASS
5.11.4a.2	AC #2 @150W: AC Out LED ON Full Load: -1.0V to 1.5V	0.8600	PASS
5.11.4c.1	AC #2 200W Overload: Pwr Avail LED OFF: -1.0V to 1.0V	0.0000	PASS
5.11.4c.2	AC #2 200W Overload: AC Out LED OFF: 2.5V to 5.0V	3.5600	PASS
5.12.4a.1	AC #3 @150W: Pwr Avail LED GREEN Full Load: 1.0V to 2.5V	2.0400	PASS
5.12.4a.2	AC #3 @150W: AC Out LED ON Full Load: -1.0V to 1.5V	0.8600	PASS
5.12.4c.1	AC #3 200W Overload: Pwr Avail LED OFF: -1.0V to 1.0V	0.0000	PASS
5.12.4c.2	AC #3 200W Overload: AC Out LED OFF: 2.5V to 5.0V	3.5400	PASS

5.12.9a	Cycle input power; Load Mgmt Limits to 250VA/225VA/200VA	250 225 200	PASS
5.13.4	USB B No Load Voltage: 4.5VDC to 5.5VDC	5.0904	PASS
5.13.5	USB C No Load Voltage: 4.5VDC to 5.5VDC	5.1149	PASS
5.13.7b	USB B Full Load Voltage 4.5VDC to 5.5VDC	4.7647	PASS
5.13.7c	USB C Full Load Voltage 4.5VDC to 5.5VDC	5.1089	PASS
5.14.2	400Hz Input Current: 1.8A to 2.39A	2.1052	PASS
5.14.3	400Hz Power Factor greater than 0.99	0.9994	PASS
5.14.8	AC Source to 115VAC, 800Hz	114.26 799.94	PASS
5.14.10	800Hz Input Current with Full Load: 1.8A to 2.4A	2.1156	PASS
5.14.10a	800Hz Power Factor greater than 0.98	0.9976	PASS
5.14.5	AC Source to 115VAC, 400Hz		PASS
5.14.6	400Hz No Load Input Power: 3.0VA to 14.0VA	9.9800	PASS
5.15.6a	AC #2 @75W: Pwr Avail LED GREEN Nom Load: 1.0V to 2.5V	2.0600	PASS
5.15.6a.1	AC #2 @75W: AC Out LED ON Nom Load: -1.0V to 1.5V	0.8400	PASS
5.15.6b	AC #2 Shorted Load: Pwr Avail LED OFF: -1.0V to 1.0V	0.0000	PASS
5.15.6c	AC #2 Shorted Load: AC Output: 111VAC to 121VAC	114.5044	PASS
5.15.9a	AC #3 @75W: Pwr Avail LED GREEN Nom Load: 1.0V to 2.5V	2.0400	PASS
5.15.9a.1	AC #3 @75W: AC Out LED ON Nom Load: -1.0V to 1.5V	0.8400	PASS
5.15.9b	AC #3 Shorted Load: Pwr Avail LED OFF: -1.0V to 1.0V	0.0000	PASS
5.15.9c	AC #3 Shorted Load: AC Output: 111VAC to 121VAC	114.8812	PASS
5.15.13b	USB B Short Test: USB Voltage: 4.5VDC to 5.5VDC.	5.0914	PASS
5.15.13c	USB C Short Test: USB Voltage: 4.5VDC to 5.5VDC.	5.1146	PASS
5.16.14a	GFI #2 Cycle 400Hz Input Power and Check BIT	240.0000	PASS
5.16.15a	GFI #2 Trip Time: 1ms to 30ms	3.2400	PASS
5.16.15b.1	GFI #2 Pwr Avail LEDs are RED: -5.0V to -1.0V	-1.7 -1.7	PASS
5.16.15b.2	GFI #2 AC Out LEDs are OFF: 2.5V to 5.0V	3.63 3.62	PASS
5.16.15c	GFI #2 In-Use LEDs are blinking: less than 150ms 1200ms	104.0 1000.0	PASS
5.16.15d	GFI #2 RS-485 GFI indicator is ON	241.0000	PASS
5.16.17a	GFI #3 Cycle 400Hz Input Power and Check BIT	240.0000	PASS
5.16.18a	GFI #3 Trip Time: 1ms to 30ms	17.6400	PASS
5.16.18b.1	GFI #3 Pwr Avail LEDs are RED: -5.0V to -1.0V	-1.7 -1.7	PASS
5.16.18b.2	GFI #3 AC Out LEDs are OFF: 2.5V to 5.0V	3.61 3.61	PASS
5.16.18c	GFI #3 In-Use LEDs are blinking: less than 150ms 1200ms	105.0 1001.0	PASS
5.16.18d	GFI #3 RS-485 GFI indicator is ON	241.0000	PASS

Astronics - AES		CAL REVERSE RECALL REPORT		6/21/2018
Part Nbr: 1191-38	Part Desc: IN-SEAT POWER SUPPLY,AC,2 OUTPUT,CIRCULAR	Serial Nbr: 112260		
Part Nbr Out:	Part Desc Out:	Part Category: CRR		
MO/SO Nbr: S191155	Test Date: 6/21/2018			
Technician: Minh Nguyen	RMA Nbr: RMA95909			
Control ID	Nomenclature	Status	Cal Exp Date	
75506	Multimeter/Switch System	Completed	11/13/2018	
76479	WT310 Digital Power Meter	Completed	11/19/2018	
76614	AC Programmable Power Supply	Indication Only		
77988	1191 In_Use LEDs and Reading Lamps Test Fixture	Completed	7/31/2018	
78030	Differential Probe	Completed	11/14/2018	
78682	1191 AC Load Test Fixture	Completed	5/2/2019	
78683	1191 AC Load Test Fixture	Completed	5/2/2019	
78684	1191 AC Load Test Fixture	Completed	5/2/2019	
79292	1191 Power and Control Test Fixture	Completed	9/26/2018	
79774	Oscilloscope	Completed	1/12/2019	
79835	1191 ATE Connector Mounting Plate	NCR		
79836	1191 ATE Connector Mounting Plate	NCR		
79884	1191 ATE Test System	NCR		

Total Records = 13

Serviceable Tag



Head Office
WOW Air
Katrínartún 12
105 Reykjavík
Iceland

1. Serviceable Tag Number

Tag #: 7342



Runn. #: 14467

2. Part Name

IN-SEAT POWER SUPPLY

3. Part Number

1191-38

4. Serial number

112260

5. Aircraft mfg.

6. Component Status / Remarks

TSN: 0.000

CSN: 0

Cert. #: RMA95909

ATA: 25-00

R #: 14467

H. Note: COMPONENT STATUS AS PER INCOMING CERTIFICATION AS STATED IN BLOCK 6

9. Vendor / Supplier

ASTRONICS AES

10. Site / Rack / Shelf

KEF/N1-1/ROT B4-5/*

11. Purchase order

15989

12. Shelf life expiration

01-Jan-9999

Life limited parts will be accompanied by maintenance history including life

Receiving Inspection

Receiving inspection accomplished in accordance with CAME procedure, chapter 2-2.

13. Signature / Stamp

SITO



14. Approval reference number

IS.145.019

15. 3 letter code

SITO

16. Date (dd-mmm-yyyy)

29-Jun-2018

Installation Data

Forward to Maintenance Planning

17. Installed on A/C ref

18. Position

19. Site Code

20. Tech log page #

21. Date

22. Signature / Stamp

Removal Data

Duplicate removal data below

23. Part number

25. Component status

☐ Removed servicable

☐ Removed unservicable

24. Serial number

26. Reason for removal

☐ Timex

☐ Snag

☐ Tr.shoot

☐ Mod

☐ Incident

27. Failure / further description

17. Removed from A/C ref

18. Position

M-41 Rev. Original

Tear off

This line needs to be perforated

Component Identification Tag

Attach to removed component

Incoming Serviceable Tag #: 7342

Runn. #: 14467



17. Removed from A/C ref

18. Position

19. Site Code

20. Tech log page

21. Date

22. Signature / Stamp

23. Part Number

24. Part Name

25. Serial number

26. Component status

☐ Removed servicable

☐ Removed unservicable

27. Reason for removal

☐ Timex

☐ Snag

☐ Tr.shoot

☐ Mod

☐ Incident

28. Work order #

29. Work card

30. Failure / further description

Gannet - ReportInventoryComponentTag

M-41 Rev. Original

WOW AIR - RETURN