

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2.		3. Form Tracking Number: 089-4/27/2012 7:55:48 AM			
4. Organization Name and Address Astronautics Corporation of America, 1426 W. National Avenue, Milwaukee, Wisconsin, 53204-2116 USA				5. Work Order/ Contract/ or Invoice Number: RMA11340-002			
6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work	
1	CONTROL PANEL	195010-11	N/A	1	089	REPAIRED	
13. Remarks This unit was repaired in accordance with Astronautics' specifications Replaced the "CTR" selector/pushbutton switch. Touched up paint on lighting panel.				drawing 195010-11 revision C Date: 9/24/2009			

It was tested to meet original manufacturer's (Astronautics') specifications, i.e. the technical data approved by the FAA Administrator. It is hereby approved for return to service. This work package is on file with Astronautics Corporation. Certifies that the work specified in Blocks 12/13 was carried out in accordance with EASA part 145, and with respect to that work, the component is considered ready for release to service under EASA Approval Number EASA. 145.5616.

14. 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 13.		19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulations specified in Block 13	
15. Signature		20. Authorized Signature: <i>Gerald Wolf</i>	
16. Approval/Authorization No.:		21. Approval/Certificate No.: XQAR449L	
17. Name (Typed or Printed):		22. Date (m d y): APR 30 2012	
23. Date (m d y):			

18. Date: (m d y):

22. Name (Typed or Printed): **Gerald Wolf**

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs the 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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 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.

ASTRONAUTICS CORPORATION OF AMERICA
MILWAUKEE, WISCONSIN 53209

DOCUMENT NO. ATP09363

Control Panel

Part Number 195010-11

PAGE 2 of 2

ACCEPTANCE TEST PROCEDURE

MSN	S/N	TESTED BY	DATE	CONDITIONS	QAR																																																																																					
	089	JM	4/27/12	Ambient																																																																																						
TEST PARA	REQUIREMENTS				REJ	ACC																																																																																				
5.3.3	<u>Rotary Switches</u> a. For each position, verify greater than one 1 Mohm when not selected and less than 2 ohms when selected. <table border="0" style="margin-left: 100px;"> <tr><td>a. CADI</td><td>J1-Z</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>b. VOR/ILS</td><td>J1-t</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>c. FMS</td><td>J1-N</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>d. MAP</td><td>J1-M</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>e. PLAN</td><td>J1-P</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>f. CHSI</td><td>J1-L</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>g. 5</td><td>J1-A</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>h. 10</td><td>J1-B</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>i. 20</td><td>J1-C</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>j. 40</td><td>J1-D</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>k. 80</td><td>J1-E</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>l. 160</td><td>J1-F</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>m. 320</td><td>J1-G</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> <tr><td>n. 640</td><td>J1-H</td><td>Pass</td><td>☒</td><td>Fail</td><td>☐</td></tr> </table> b. Verify the fourteen (14) rotary selector positions on the CP correspond to Figure 1. Pass ☒ Fail ☐				a. CADI	J1-Z	Pass	☒	Fail	☐	b. VOR/ILS	J1-t	Pass	☒	Fail	☐	c. FMS	J1-N	Pass	☒	Fail	☐	d. MAP	J1-M	Pass	☒	Fail	☐	e. PLAN	J1-P	Pass	☒	Fail	☐	f. CHSI	J1-L	Pass	☒	Fail	☐	g. 5	J1-A	Pass	☒	Fail	☐	h. 10	J1-B	Pass	☒	Fail	☐	i. 20	J1-C	Pass	☒	Fail	☐	j. 40	J1-D	Pass	☒	Fail	☐	k. 80	J1-E	Pass	☒	Fail	☐	l. 160	J1-F	Pass	☒	Fail	☐	m. 320	J1-G	Pass	☒	Fail	☐	n. 640	J1-H	Pass	☒	Fail	☐		
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n. 640	J1-H	Pass	☒	Fail	☐																																																																																					
5.3.4	<u>Lighting Power</u> a. Verify the white legends on the face of the lighting panel are evenly illuminated. Pass ☒ Fail ☐ b. Verify current draw from the power supply is less than 1.5A. Pass ☒ Fail ☐																																																																																									

F/R FINAL

ASTRONAUTICS CORPORATION OF AMERICA
MILWAUKEE, WISCONSIN 53209

DOCUMENT NO. ATP09363

Control Panel

Part Number 195010-11

ACCEPTANCE TEST PROCEDURE

PAGE 1 of 2

MSN	S/N 089	TESTED BY <i>J Mitchell</i>	DATE 4/27/12	CONDITIONS Ambient	QAR	
TEST PARA	REQUIREMENTS				REJ	ACC
5.3	Functional Test					
5.3.1	<u>Ground Test</u> a. Verify the CP ground pins are tied together by measuring less than 2 ohms between the following pins of J1: (1) R to V Pass ☒ Fail ☐ (2) R to g Pass ☒ Fail ☐ (3) R to j Pass ☒ Fail ☐ b. Verify no continuity between the CP case and ground pins by measuring greater than 1 Mohm between J1-R and an unpainted surface of the case of the CP. Pass ☒ Fail ☐					
5.3.2	<u>Pushbuttons</u> a. Verify greater than 1 Mohm in the open (static) state and less than 2 ohms in the closed (pressed) state of these pushbuttons. Measure between J1-R and the pins indicated below for each pushbutton. a. RTE DATA J1-X Pass ☒ Fail ☐ b. WYPT J1-a Pass ☒ Fail ☐ c. ARPT J1-W Pass ☒ Fail ☐ d. NAV AID J1-Y Pass ☒ Fail ☐ e. TERR J1-U Pass ☒ Fail ☐ f. DH (up) J1-S Pass ☒ Fail ☐ g. DH (down) J1-T Pass ☒ Fail ☐ h. CTR J1-b Pass ☒ Fail ☐ i. TFC J1-m Pass ☒ Fail ☐ b. Verify the nine (9) momentary pushbuttons on the CP correspond to Figure 1. Pass ☒ Fail ☐					



Astronautics Corporation of America
P.O. Box 523, Milwaukee, Wisconsin 53201-05231

Repair Routing Sheet and Traveler

Site: MKE
Qty.: 1
B/W: Billable

Shop Order	Release	Sequence	Need Date	Lot Batch No.	Priority	Rev	Proposed Loc.	Phase In
90143	*	*	02/06/2012	RMA11340-002-1		1	SHIPPING	01/01/1980



Part No.: 195010-11

Serial No: 089

Quantity Due: 1



Control Panel (Final Assembly)

Insp Req:

Mfg Rev: 1

Dwg Rev: C

Eng Rev: C

Operation ID	Operation Description Operation No.	Work Center No. Work Center Desc.	Date Complete	Qty. Accept	Qty. Rej. ID/Sign
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End of Operation.

End of Report.



Astronautics Corporation of America
P.O. Box 523, Milwaukee, Wisconsin 53201-05231

Repair Routing Sheet and Traveler

Site: MKE
Qty.: 1
B/W: Billable

Shop Order 90143 Release * Sequence * Need Date 02/06/2012 Lot Batch No. RMA11340-002-1 Priority Rev 1 Proposed Loc. SHIPPING Phase In 01/01/1980



Part No.: 195010-11



Control Panel (Final Assembly)

Insp Req:

Serial No: 089



Quantity Due: 1



Mfg Rev: 1

Dwg Rev: C

Eng Rev: C

Operation ID	Operation Description Operation No.	Work Center No. Work Center Desc.	Date Complete	Qty. Accept	Qty. Rej. ID/Sign
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Test per ATP

1327061

130

FNLT2

Final Test (displays
plt 4)

4/22/12

1

7

Planned Start Before: 06-Jan-2012 14:53

Targeted Finish Before: 06-Jan-2012 15:53

Work Guidelines:

Test per ATP 09363



Verify Paperwork

1327062

140

RPR02

Repair
Technician-Displays

4/27/12

1

2367

Planned Start Before: 03-Feb-2012 15:53

Targeted Finish Before: 03-Feb-2012 16:00

Work Guidelines:

Generate 8130 Form



Paint

1327063

150

PNT01

Paint

4-27-12

1

4840

Planned Start Before: 03-Feb-2012 16:00

Targeted Finish Before: 03-Feb-2012 17:00

Work Guidelines:

Paint and Touch-up Unit

ID Plate

Visual Inspection

Pack Unit

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4-30-12 1 0138

4-30-12 1



REVIEW AND SIGNOFF REQUIRED BY AN AUTHORIZED FAA "REPAIRMAN"
REVIEW THE CUSTOMER'S PO/PO ADDENDUM/PO CHANGES/
OTHER CUSTOMER REQUIREMENTS THAT PERTAIN TO BLOCK 13 OF THE 8130-3,
IF 8130-3 IS REQUIRED

Donald Wolf FAA CERT 2431971

4-30-12



Astronautics Corporation of America
P.O. Box 523, Milwaukee, Wisconsin 53201-05231

Repair Routing Sheet and Traveler

Site: MKE
Qty.: 1
B/W: Billable

Shop Order 90143 Release * Sequence * Need Date 02/06/2012 Lot Batch No. RMA11340-002-1 Priority Rev 1 Proposed Loc. SHIPPING Phase In 01/01/1980



Part No.: 195010-11



Control Panel (Final Assembly)

Insp Req:

Serial No: 089



Quantity Due: 1



Mfg Rev: 1

Dwg Rev: C

Eng Rev: C

Operation ID	Operation Description Operation No.	Work Center No. Work Center Desc.	Date Complete	Qty. Accept	Qty. Rej. ID/Sign
 1327055	Test, Troubleshoot, and Evaluate 60	RPR02 Repair Technician-Displays	12/20/2011	1	4551
Planned Start Before: 02-Nov-2011 10:32		Targeted Finish Before: 02-Nov-2011 10:39			
 1327056	Repair - Rework 70	RPR02 Repair Technician-Displays	4/23/2012	1	4551
Planned Start Before: 02-Dec-2011 10:39		Targeted Finish Before: 02-Dec-2011 10:46			
 1327057	inspect -11 Rev c lc 80	INEM1 EM/Computer/Repair /Display Inspect	4/25/2012	1	ACA 50
Planned Start Before: 02-Dec-2011 10:46		Targeted Finish Before: 02-Dec-2011 11:46			
 1327058	Test and Integrate 100	RPR02 Repair Technician-Displays	4/25/2012	1	4551
Planned Start Before: 06-Jan-2012 11:46		Targeted Finish Before: 06-Jan-2012 11:53			
Work Guidelines: INTEGRATE MODULES AND PERFORM A FUNCTIONAL TEST Use T-9871					
 1327059	Test per ATP 110	FNLT2 Final Test (displays plt 4)	4-26-12	1	77
Planned Start Before: 06-Jan-2012 11:53		Targeted Finish Before: 06-Jan-2012 13:53			
Work Guidelines: Test per ATP 09363					
 1327060	Environmental Test 120	ESST1 Environmental Stress Screening	4-26-12	1	2659 12
Planned Start Before: 06-Jan-2012 13:53		Targeted Finish Before: 06-Jan-2012 14:53			



C111896
Astronautics Corporation of America
P.O. Box 523, Milwaukee, Wisconsin 53201-05231

Repair Routing Sheet and Traveler

Site: MKE
Qty.: 1
B/W: Billable

Shop Order 90143 Release * Sequence * Need Date 02/06/2012 Lot Batch No. RMA11340-002-1 Priority Rev 1 Proposed Loc. SHIPPING Phase In 01/01/1980



Part No.: 195010-11



Serial No: 089



Quantity Due: 1



Control Panel (Final Assembly)

Insp Req:

Mfg Rev: 1

Dwg Rev: C

Eng Rev: C

CRO No.: RMA11340-002

Customer Name

AJ Walter Aviation Ltd.

Government Contract Number:

EASA: Y

Customer PO No.

FAA Req.: Y

Project No.

RM02840

DPAS

Operation ID	Operation Description Operation No.	Work Center No. Work Center Desc.	Date Complete	Qty. Accept	Qty. Rej. ID/Sign
	Inspect 10	INEM1 EM/Computer/Repair /Display Inspect	12/12/11	1	2394
Planned Start Before: 06-Sep-2011 16:25		Targeted Finish Before: 07-Sep-2011 8:25			
Work Guidelines: SEAL INTACT: SEAL BROKEN: 29944-001					
	Test 30	FNLT2 Final Test (displays plt 4)	12/15/11	1	F
Planned Start Before: 07-Sep-2011 8:25		Targeted Finish Before: 07-Sep-2011 9:25			
Work Guidelines: Tes per ATP 09363					
	Assemble 40	RPR02 Repair Technician-Displays	12/15/2011	N/A	SW
Planned Start Before: 05-Oct-2011 9:25		Targeted Finish Before: 05-Oct-2011 9:32			
Work Guidelines: DISASSEMBLE COVER AND APPLICABLE MODULES					
	Inspect 50	INEM1 EM/Computer/Repair /Display Inspect	12-19-2011	1	ACA 52
Planned Start Before: 05-Oct-2011 9:32		Targeted Finish Before: 05-Oct-2011 10:32			
Work Guidelines: Inspect with cover off					

Astronautics Corporation of America Teardown Report

1426 W. National Avenue, Milwaukee, WI USA 53204

Repair Station # XQAR449L /EASA.145.5616

Customer: AJ WALTER AVIATION LTD. **Date:** Friday, April 27, 2012

Customer PO#: 167743

Work Order #: 90143 **JOB#:** RMA11340-002

Astronautics Part Number: 195010-11 **SN:** 089

Part Name: CONTROL PANEL

Reason for Return:

Control knob is inop.

Astronautics Findings:

- 1) Confirmed failure; "CTR" pushbutton is inop.
- 2) Lite leakage due to scratches on the lighting panel.

Repair Action:

- 1) Replaced the "CTR" selector/pushbutton switch.
 - 2) Touched up paint on the lighting panel.
- Unit passed ESS and final acceptance test procedure #ATP09363B on April 27, 2012.

Report Prepared By:

Gerald Wolf

4-30-12