

AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: KNXNA0001001001	
1. Issuing Office: FAA/UNITED STATES		5. Work Order/Contract/Invoice Number: KNXNA	
2. Description: Duncan Aviation/3701 Aviation Road/Lincoln, NE 68524 JGVR194F		10. Serial Number: 95080592	
4. Part Number: INTEGRATED AVIONICS COMPUTER 7017000-80162		11. Status/Work: Repaired	
9. Quantity: 1			

Discrepancy: This unit fails after 2 hours of flight. Autopilot will fail and will not reengage.

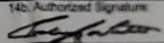
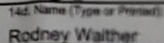
Preliminary Findings: Bench checked and could not duplicate the discrepancy but did find the AP disengaged after over 40 hours on systems bench tester. Also found the G/A comes on automatically.

Corrective Actions: Disassembled, cleaned and inspected. Troubleshoot and replaced A5 main autopilot circuit board causing the AP to disengage and the G/A to come on automatically. Reassembled. Painted. Function tested the unit per Honeywell IC-500/HG-200 Display Guidance Computer and IC-600/IC-615/IC-1080 Integrated Avionics Computer Component Maintenance Manual, 15 Dec 1996, Revision 10, 28 Apr 2021.

Incoming H/W mods: A,B,C,D,E,G,H,J,K,L,R,Z,AA,AB,AD,AG
 Incoming S/W mods: N/A
 Incoming S/W load: 7017000-80162
 Outgoing H/W mods: A,B,C,D,E,G,H,J,K,L,R,Z,AA,AB,AD,AG
 Outgoing S/W mods: N/A
 Outgoing S/W load: 7017000-80162

Duncan Aviation certifies that the work specified in Blocks 11 and 12 was performed IAW EASA part 145, and with respect to that work, the aircraft component is considered ready for release to service under EASA approval number EASA.145.4392. All EASA/FAA Airworthiness Directives are the responsibility of the installer.
 No current U.S. Airworthiness Directives apply.
 All EASA AD's have been researched, none apply.

Technician: Cory Belik
 This document constitutes a signed copy of the work order
 Approval for return to service
 See attached parts list

13a. Certifies the items identified above were manufactured in conformity to: <input 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 checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulations 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.: DUNCAN 02 388	14b. Authorized Signature: 	14c. Approval Certificate No.: JGV 08 11349F
13d. Name (Type or Printed): Rodney Walther	13e. Date (dd/mm/yyyy): 12 Sep 2024	14d. Name (Type or Printed): Rodney Walther	14e. Date (dd/mm/yyyy): 12 Sep 2024

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/rotor.

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, the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/rotor(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)