

# Insight Instrument Corporation

## Instructions for Continued Airworthiness Thunderstorm Detection System

AIRCRAFT MAKE:	AIRCRAFT MODEL:
AIRCRAFT S IN:	AIRCRAFT REG. NO:
Strike Finder 2000-021-xxx S /N:	
Sensor 2000-022 S /N:	(If Applicable)
Sensor 2000-024 S /N:	(If Applicable)
RBS Module 2000-050 S/N:	(If Applicable)

This sixteen item checklist contains Instructions for Continued Airworthiness (ICA), to comply with FAA Handbook Bulletin for Airworthiness (HBAW 98-18 dated Oct 7, 1998) and are applicable to the aircraft listed above when the following are installed:

Insight Avionics Incorporated Thunderstorm Detection System  
Strike Finder P/N 2000-021-xxx, Sensor P/N 2000-022 Or P/N  
2000-024 and External RBS Module P/N 2000-050.

### 1. INTRODUCTION

This modification was performed on the above aircraft. The following information provides adequate guidance to determine that the system is airworthy.

- A. Pilot's Guide P/N 2000-001
- B. Installation Manual P/N 2000-10
- C. Technical Standing Order C110A
- D. Supplemental Type Certificate SA00712CH

### 2. DESCRIPTION

This involves the installation of an Insight Avionics Inc. Thunderstorm Detection System as noted above. The system may be connected to the aircraft compass system or panel-mounted directional gyro to provide heading information to the Thunderstorm Detection System.

### 3. CONTROLS, OPERATION INFORMATION

Operation of the Thunderstorm Detection System is described in the Pilot's Guide.

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### 4. SERVICING INFORMATION

All servicing of items included in this system must be accomplished by Insight Instrument Corporation maintenance staff. Location and access to the components are described in the Installation manual noted above. Requirement for removal and replacement of components should be determined by the functional checks indicated in the Functional Acceptance Testing, Ground and Flight Testing, and Troubleshooting sections of the Installation Manual. For servicing information contact Insight Instrument Corporation at (905)-871-0733 or techsupport@insightavionics.com.

### 5. MAINTENANCE INSTRUCTIONS

All maintenance functions of displays, sensors, and RBS modules included in these systems must be accomplished by Insight Instrument Corporation maintenance staff. All maintenance functions of displays, sensors and RBS modules will be accomplished using Maintenance Instructions for Strike Finder displays, document number MI-2001, latest revision, sensors – document number MI-2002, latest revision and RBS module MI-2003, latest revision.

### 6. TROUBLESHOOTING INFORMATION

Troubleshooting of this system must be accomplished by Insight Instrument Corporation maintenance staff. System function should be determined by the functional checks indicated in the Functional Acceptance Testing, Ground and Flight Testing, and Troubleshooting sections of the Installation Manual. For technical assistance in troubleshooting, contact Insight Instrument Corporation at (905)-871-0733 or techsupport@insightavionics.com.

### 7. REMOVAL AND REPLACEMENT INFORMATION

All components can be removed with common tools and practices. Installation of components required for this alteration must be in accordance with the approved data contained in the Installation Manual.

### 8. DIAGRAMS

All installation diagrams and schematics are in the Drawings Section of the Installation Manual.

### 9. SPECIAL INSTRUCTIONS N/A

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10. APPLICATION OF PROTECTIVE TREATMENTS

The Sensor must not be painted as it is made from a static dissipative material. Clean any sealants, such as non-corrosive RTV or Pro-Seal, from the visible surface of the Sensor.

11. STRUCTURAL FASTENERS

Appropriate size nut and bolt supplied by customer to attach static strap to airframe structural member.

12. SPECIAL TOOLS

Crimp Tool	Daniels	P/N M22520/02-01.
Positioner	Daniels	P/N M22520/2-08.
Insertion Tool	AMP	P/N 91067-2

13. COMMUTER AIRCRAFT CATEGORY

Electrical Load: 0.4 A at 27.5 V dc.

Weight:	Display	1.2 lbs (0.54 kg)
	Sensor	0.6 lbs (0.27 kg)

14. RECOMMENDED OVERHAUL PERIODS N/A

15. AIRWORTHINESS LIMITATIONS N/A

16. REVISIONS N/A

Approved: \_\_\_\_\_

Date: \_\_\_\_\_