

Insight Instrument Corporation
Instructions for Continued Airworthiness
Graphic Engine Monitor

AIRCRAFT MAKE:	AIRCRAFT MODEL:
AIRCRAFT S/N:	AIRCRAFT REG. NO.:
GEM 602/603 S/N:	(If Applicable)
OAT/IAT Probe S/N:	(If Applicable)
CHT Probes SIN:	(If Applicable)
EGT Probes SIN:	(If Applicable)
T.I.T. Probes 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 Instrument Corporation Graphic Engine Monitor GEM 602/603
Cylinder Head Temperature Probes (CHT) P/N 2852, 2853, 2855, 2856
Exhaust Gas Temperature Probes (EGT) P/N 2870
- | Turbine Inlet Temperature Probes (T.I.T.) P/N 2871, 2872, 2873

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 930322
- B. Installation Manual P/N 8258 Version 3.0
- C. Supplemental Type Certificate SA157NE

2. DESCRIPTION

This involves the installation of an Insight Instrument Corporation Graphic engine monitor system as noted above. The installation may include the following:

- | A. GEM 602/603
- | B. Cylinder Head Temperature Probes (CHT) P/N 2852
- | C. Cylinder Head Temperature Probes (CHT) P/N 2853
- | D. Cylinder Head Temperature Probes (CHT) P/N 2855
- | E. Cylinder Head Temperature Probes (CHT) P/N 2856
- | F. Exhaust Gas Temperature Probes (EGT) P/N 2870
- | G. Turbine Inlet Temperature Probes (T.I.T.) P/N 2871
- | H. Turbine Inlet Temperature Probes (T.I.T.) P/N 2872
- | I. Turbine Inlet Temperature Probes (T.I.T.) P/N 2873

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3. CONTROLS, OPERATION INFORMATION Operation of the Graphic Engine Monitor are described in the Pilot's Guide.
4. SERVICING INFORMATION
All servicing of displays included in these systems must be accomplished by Insight Instrument Corporation maintenance staff. Probes are non-repairable. Location and access to the components (probes and wiring harness) are described in the Installation manual noted above. Removal and replacement of components should be determined by the functional checks indicated in the Installation Manual and Pilot's Guide. For servicing information contact Insight Instrument Corporation at (905) 871-0733 or techsupport@insightavionics.com.
5. MAINTENANCE INSTRUCTIONS
All maintenance functions of displays included in these systems must be accomplished by Insight Instrument Corporation maintenance staff. All maintenance functions on these displays will be accomplished using Maintenance Instructions for GEM 602/603 document number MI-600, latest revision.
6. TROUBLESHOOTING INFORMATION
Troubleshooting this system must be accomplished by Insight Instrument Corporation maintenance staff. System function should be determined by the functional checks indicated in the, Configuring the GEM, 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 (display, probes and wiring harness) 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.

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8. DIAGRAMS

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

9. SPECIAL INSTRUCTIONS N/A

10. APPLICATION OF PROTECTIVE TREATMENTS N/A

11. STRUCTURAL FASTENERS N/A

12. SPECIAL TOOLS N/A

13. FOR COMMUTER AIRCRAFT

Electrical Load: 7 W.
Weight: See the Weight and Balance section of the Installation manual.

14. OVERHAUL TIME LIMITATIONS N/A

15. AIRWORTHINESS LIMITATIONS N/A

16. REVISIONS – April 13, 2011, Rev.1

Approved by: _____

Date _____