

Insight Instrument Corporation
Instructions for Continued Airworthiness
Graphic Engine Monitor

AIRCRAFT MAKE:	AIRCRAFT MODEL:
AIRCRAFT S/N:	AIRCRAFT REG. NO.:
GEM 610 S/N:	(If Applicable)
GEMINI 1200 S/N:	(If Applicable)
OAT/IAT Probe S/N:	(If Applicable)
CHT Probes S/N:	(If Applicable)
EGT Probes S/N:	(If Applicable)
T.IT 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 610 or GEMINI 1200
Outside/Inside Air Temperature Probes (OAT/IAT) P/N 1200-021
Cylinder Head Temperature Probes (CHT) P/N 2852, 2853, 2855, 2856
Exhaust Gas Temperature Probes (EGT) P/N 2870
Turbine Inlet Temperature Probes (T.IT) 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
- D. STC Objectives and Field Approval Procedures

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 610
- B. GEMINI 1200
- C. Outside/Inside Air Temperature Probes (OAT/IAT) P/N 1200-021
- D. Cylinder Head Temperature Probes (CHT) P/N 2852
- E. Cylinder Head Temperature Probes (CHT) P/N 2853
- F. Cylinder Head Temperature Probes (CHT) P/N 2855
- G. Cylinder Head Temperature Probes (CHT) P/N 2856
- H. Exhaust Gas Temperature Probes (EGT) P/N 2870
- I. Turbine Inlet Temperature Probes (T.IT) P/N 2871
- J. Turbine Inlet Temperature Probes (T.IT) P/N 2872
- K. Turbine Inlet Temperature Probes (T.IT) P/N 2873

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3. CONTROLS AND OPERATION INFORMATION

Operation of the Graphic Engine Monitor is 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 are described in the installation manual noted above. Removal and replacement of components (probes and wiring harnesses) should be determined by the functional check 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 function on these displays will be accomplished using Maintenance Instructions for GEM 610/1200, document number MI-1200, latest revision.

6. TROUBLESHOOTING INFORMATION

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

7. REMOVAL AND REPLACEMENT

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.

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

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12. SPECIAL TOOLS – N/A

13. FOR COMMUTER AIRCRAFT

Electrical Load: 7W

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 14, 2011, Rev.1

Approved by: _____

Date: _____