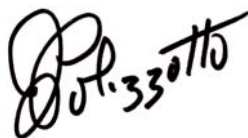


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EDM 960
Instructions for Continued Airworthiness
Supplement No: 960-01
Revision: IR



Prepared by:

_____ 02/06/2014
Joe Polizzotto

**Before performing any procedures contained in this manual
the user should verify they have the latest ICA revision.**

Please check web site at www.JPIinstruments.com

for the latest revision of this manual.

The registered owner on file at JPI will also be notified of any changes.

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Revision History

REVISIONS			
Rev.	Reason/Description	Requested/ Changed By	Date
IR	Complete Document	N/A	02/06/2014
A	Removed duplicate Airworthiness Limitations in Section 18. In Section 2 Clarified "identical to" with report JPI No 909 Corrected invalid internet address Section 11 for service information	FAA	04/08/2014

List of Effective Pages

This document is controlled and revised as a complete unit and does not contain pages of various revisions. All pages are of the same revision as indicated on the cover page and also indicated at the bottom of each subsequent page. The effective pages consist of the sections as noted in the Table of Contents.

Distribution of Revisions

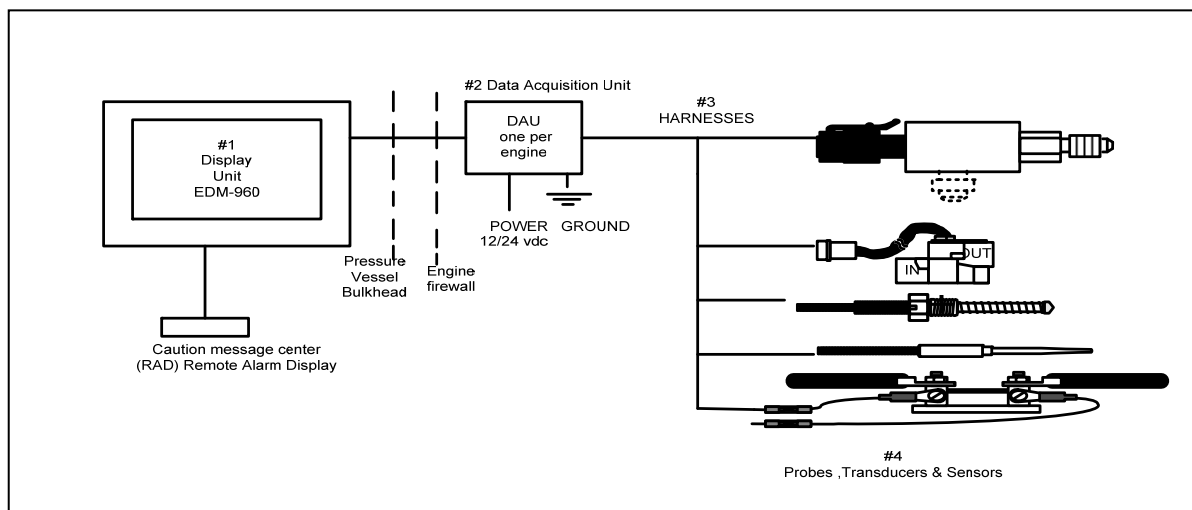
Notification of changes to this ICA will be sent to all EDM-960 owners on record. The changed document will be available at JPInstruments.com. Paper copies will be available on request, contact J.P.Instruments at 714-557-3805

1.0 Introduction

This document contains the instructions for continued airworthiness (ICA). This ICA was written in the format contained in the GAMA Specification No. 2 which was specified by FAA Order 8110.54A. This ICA conforms to the requirements specified by Part 23, Appendix G and FAA Order 8110.54A. The FAA guidance includes sections that are not applicable to the EDM-960 system, only applicable sections have been addressed in this document.

2.0 System Description

The EDM-960 is a combined electronic indicating system made up of one Display Unit and two Data Acquisition Units one mounted behind each engine. The Display Unit presents powerplant parameters to the pilot. It replaces all previous primary digital and/or analog instruments: This system performs monitoring tasks only; it does not perform any engine or aircraft system controlling functions. The EDM-960 System consists of four major components: the Display Unit PN 790000-C, two DAU Data Acquisition Units, PN 790000-B; probes transducers and sensors; and the connecting wiring and harnesses.



2.1 Display Unit Pn 790000-C

The EDM-960 receives, processes and displays the Serial data on a VGA TFT color display. In addition, the EDM-960 receives GPS data. The EDM-960 also transmits fuel flow and OAT data to a GPS and controls the external Master Caution Message Center (RAD) Remote Access Display.

2.2 Data Acquisition Unit (DAU) EDM-950

The EDM-950 is a 5.25" x 5.25" x 1.75" module that incorporates two 26-pin, two 15-pin and one 9-pin D-sub connectors. The EDM-950 incorporates 32-temperature channels, 6-high impedance pressure channels, 2-amp channel, 2 Frequency (RPM and Fuel Flow) channels, 4-capacitive fuel level channels, 4-resistive fuel level channels.

The EDM-950 channels convert signals from the probes, transducers and sensors to a digital format. This data is transmitted to the Display PN 790000-C via three wire Serial Bus.

The EDM-950 is FAA, TSO and STC approved, and is installed per J.P.Instruments Inc. installation instruction report 909.

2.3 Harnesses

The extension cables route the signals from the probes, transducers and sensors to the DAUs. These extension cables are FAA approved. The installation of these extension cables are per J.P.Instruments Inc. installation instruction report 909.

2.4 Probes, Transducers and Sensors

These components are used to measure pressures, temperatures, fuel flow, volts, amps, fuel levels and many other engine and aircraft system functions. The analog signals produced by the transducers and probes are routed through the extension cables to the various EDM-950 inputs.

These probes, transducers and sensors are TSO approved and currently are used on other J.P.Instruments Inc. STC'd, TSO'd products. The installation of these probes, transducers and sensors are per J.P.Instruments Inc. installation instruction report 909.

2.5 EDM-960 System Parts List

See section 35 Component Parts List in Report 909 Installation Instructions

3.0 Applicable Documents

The following documents are listed for reference only.
Each document is applicable only to the extent specified herein.

Report 909

EDM-960 Installation Instructions

4.0 Control & Operation Information

All of the engine and aircraft functions monitored by the EDM-960 are displayed on the Display Unit after power-up. There are no other display screens.

Fuel Level calibration is performed during the initial installation of the EDM-960 and should not require recalibration. Changing or repairing the EDM-960 display and/or EDM-950 will not affect fuel level calibration. However, if a fuel probe is replaced, fuel level calibration will be required.

To calibrate the fuel level for a specific fuel tank, see section 28 and 29 in the installation Report 909

5.0 Airworthiness Limitations

There are no new or additional airworthiness limitations with installation of the EDM-960 system.

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Sections. 43.16 and 91.403 of the Federal Aviation Regulations, unless an alternative program has been FAA approved.

6.0 Interior Placards

There are no markings or placards required in conjunction with the EDM-960 System.

7.0 Charts and Wiring Diagrams

All installation diagrams, schematics and charts are located in the EDM-960 Installation Instructions (Report 909).

8.0 Overhaul Time Limits

The EDM-960 system and accessories have no overhaul time limits.

9.0 Maintenance Instructions

Maintenance checks should be performed every 100 hour and/or at the annual inspection. Check all system components for the following: leaks on or around transducers, loose fittings, chaffing and/or breakage of any cables or wires and loose connections. Probes must be checked for proper installation. This includes checking all hose clamps and fittings for security. Verify that the unit is operating and functioning properly by performing the procedures in Sections 5. and 6 of the EDM-960 Installation Instructions (Report 909). On pressurized aircraft, check the sealant for security where the serial wires pass through the pressure bulkhead to the Display Unit.

10.0 Protective Treatment

There are no applications of protective treatments required for the EDM-960 system and its components.

11.0 Servicing

Servicing is "on condition" only. There are no field adjustments or calibration requirements for the EDM-960 system after it has been properly installed, checked off and signed-off by the respective authority. All servicing of the EDM-960 system and accessories must be accomplished by J.P.Instruments Inc. (JPI). Probes, transducers, sensors and the display unit are limited to removal and replacement with JPI manufactured new or JPI remanufactured components. Location and access to the components are described in the EDM-960 Installation Instructions (Report 909).

For servicing information contact J.P.Instruments Inc. at (714) 557-3805 or support@jpinstruments.com.

12.0 Removal

Guidance on removal of the EDM-960 system and/or accessories is provided in the EDM-960 Installation Instructions (Report 909). Removal must be performed in accordance with applicable airworthiness standards.

13.0 Installation and Replacements

Installation of the EDM-960 and/or accessories must be performed in accordance with the EDM-960 Installation Instructions (Report 909) and in accordance with applicable airworthiness standards.

14.0 Troubleshooting

Troubleshooting the EDM-960 system and accessories, including probes, transducers and sensors, must be performed in accordance with the Troubleshooting Section found in the EDM-960 Installation Instructions (REPORT 909) section 39. Troubleshooting is limited to identification of a defective component. A component's internal workings should only be repaired by J.P.Instruments Inc.

15.0 Special Instructions

There are no special instructions required for the EDM-960 System.

16.0 Special Inspection Requirements

There are no special inspection requirements for the EDM-960 System.

17.0 Special Tools

There are no special tools required for working on the EDM-960 System.

18.0 Revisions

These Instructions for Continued Airworthiness have been reviewed and accepted by the FAA. In the event that a revision is required the revision will be submitted to the FAA for review and acceptance. Before performing any procedures contained in the manual the user should verify they have the latest revision by Checking the web site at www.JPIinstruments.com for the latest revision of this manual. Owners of record will also be notified by mail or e-mail of a revision update. The revised Instructions for Continued Airworthiness must become a part of the aircraft records and a logbook entry made noting the revision