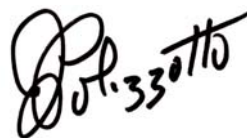


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**EDM 900/930**  
**Instructions for Continued Airworthiness**  
Supplement No: 905-01  
Revision: E



Prepared by:

\_\_\_\_\_  
Joe Polizzotto 05/24/2014

**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](http://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**

Revision	Date	Description	Affected Pages
IR	12/ 15 /2011	Complete Document	1 thru 6
A	2/07/2012	Added Penetration of Aircraft Pressure Vessel item 9	Page 5
B	4/23/2012	Revised items 5 and 9	Page 5
C	5/16/2012	Deleted old items 3 and 12. Revised old items 4, 5, 8, and 14 (new items 3, 4, 7, and 13)	Pages 5 and 6
D	7/15/2012	Clarified acronyms in item 2. Corrected typographical errors in revision log, items 2, 4, 5, 6, and 7. Reworded items 4 and 14 for clarity. Added Rev. D to all pages.	Pages 1 through 6
E	5-24-14	Reorganized and rewrote complete document	All

**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**

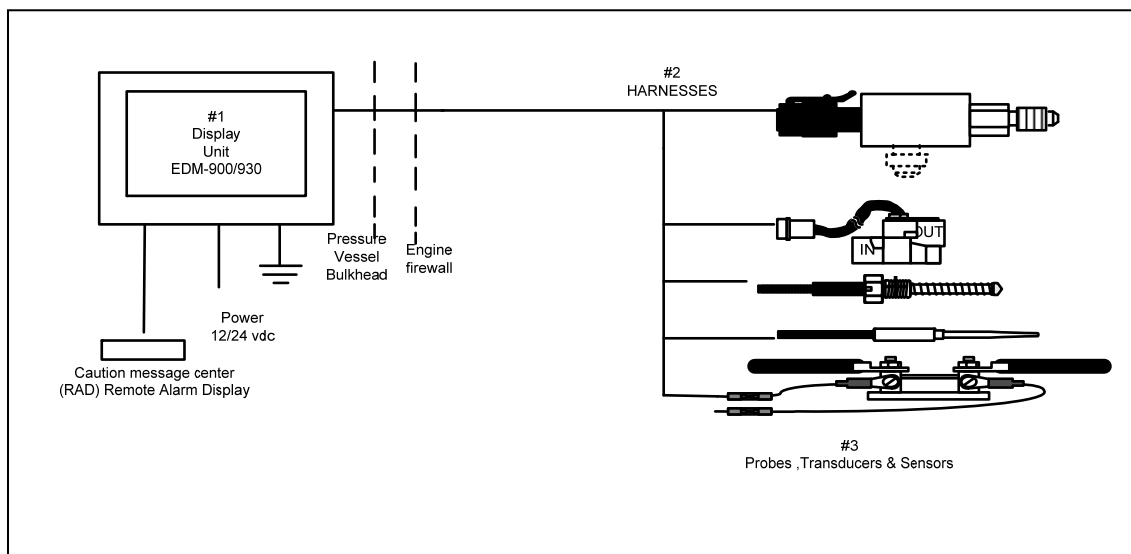
Notification of changes to this ICA will be sent to all EDM-900/930 owners on record. The changed document will be available at [JPInstruments.com](http://JPInstruments.com). Paper copies will be available on request, contact J.P.Instruments at 714-557-3805.

**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-900/930 system, only applicable sections have been addressed in this document.

**2.0 System Description**

The EDM-900/930 is a combined electronic indicating system which simultaneously displays to the pilot powerplant and aircraft systems operating parameters. 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.



## 2.1 Display Unit PNs 790000-A and 790000-C

The EDM-900/930 receives, processes and displays the data on a VGA TFT color display. In addition, the EDM-900/930 receives GPS data. The EDM-900/930 also transmits fuel flow and fuel level data to a GPS and controls the external Master Caution Message Center (RAD) Remote Access Display.

## 2.2 Harnesses

The extension cables route the signals from the probes, transducers and sensors to the Display unit. These extension cables are FAA approved. The installation of these extension cables are per J.P.Instruments Inc. report 908 installation instructions.

## 2.3 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 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. report 908 installation instructions.

## 2.4 EDM-900/930 System Parts List

See section 29 page 32 Component Parts List in Report 908 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 908 EDM-900/930 Installation Instructions.

#### **4.0 Control & Operation Information**

All of the engine and aircraft functions monitored by the EDM-900/930 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-900/930 and should not require recalibration. Changing or repairing the EDM-900/930 display 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 22.4 in the installation Report 908.

#### **5.0 Airworthiness Limitations**

There are no new or additional airworthiness limitations with installation of the EDM-900/930 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-900/930 System.

#### **7.0 Charts and Wiring Diagrams**

All installation diagrams, schematics and charts are located in the EDM-900/930 Installation Instructions (Report 908).

#### **8.0 Overhaul Time Limits**

The EDM-900/930 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, chafing 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 appropriate procedures in Sections of the EDM-900/930 Installation Instructions (Report 908). 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-900/930 system and its components.

## 11.0 Servicing

Servicing is "on condition" only. There are no field adjustments or calibration requirements for the EDM-900/930 system after it has been properly installed, checked off and signed-off by the respective authority. All servicing of the EDM-900/930 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 rebuilt to new components. Location and access to the components are described in the EDM-900/930 Installation Instructions (Report 908).

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

## 12.0 Removal

Guidance on removal of the EDM-900/930 system and/or accessories is provided in the EDM-900/930 Installation Instructions (Report 908). Removal must be performed in accordance with applicable airworthiness standards.

## 13.0 Installation and Replacements

Installation of the EDM-900/930 and/or accessories must be performed in accordance with the EDM-900/930 Installation Instructions (Report 908) and in accordance with applicable airworthiness standards.

## 14.0 Troubleshooting

Troubleshooting the EDM-900/930 system and accessories, including probes, transducers and sensors, must be performed in accordance with the Troubleshooting Section found in the EDM-900/930 Installation Instructions (REPORT 908) section 39. Troubleshooting is limited to identification of a defective component. A component's internal workings can only be repaired by J.P.Instruments Inc.

## 15.0 Special Instructions

There are no special instructions required for the EDM-900/930 System.

## 16.0 Special Inspection Requirements

There are no special inspection requirements for the EDM-900/930 System.

## 17.0 Special Tools

There are no special tools required for working on the EDM-900/930 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](http://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.