
Chapter 1

Introduction

The ACES Systems' Model 1752B JEDA is a portable data acquisition system that, in conjunction with an ACES Analyzer, automates calibration runs for all Honeywell TFE731 engines.

The 1752B is compatible with the EEC, N2 DEEC, and N1 DEEC computer which means it can be used on all models of the TFE731 engines.

The 1752B serves as a data logger and is controlled by an ACES Model 1700, 1725, or Viper 4040 Analyzer. The data, once collected and stored in the analyzer, is transferred from the analyzer via JEDA Comm or ACES AvTrend software, to a PC where it is reduced by MEDRA® software. MEDRA is a Honeywell software product which may be purchased from ACES Systems. ACES Systems provides user support for MEDRA as well as all ACES products.

Overall, the JEDA is designed as a lightweight, portable unit with accuracy and ease of use as primary design goals.

The subsequent chapters of this manual explain the functions and features of the JEDA, supporting information, and troubleshooting. The remainder of this chapter presents tips on effectively using the equipment.

1.1 - Notes, Cautions, and Warnings Definitions

Throughout this manual you will encounter “notes, cautions, and warnings.” They will be in **BOLD** capital print centered above a short paragraph. The information in the paragraph is defined as follows for each of the three categories.

NOTE

Information considered essential to emphasize for clarity or to ensure the related procedure is correctly accomplished.

CAUTION

Information that if not heeded, may result in the damage or faulty operation of equipment.

WARNING

Information that if not heeded, may result in damage or destruction of equipment and/or injury to personnel.

1.1.1 – General Notes, Cautions, and Warnings

CAUTION

To prevent static damage to the JEDA equipment be sure that the aircraft is statically grounded before attaching any equipment or accessories.

CAUTION

The JEDA unit is not waterproof when the lid is open. Do not expose the open JEDA to elements such as rain or snow. The unit was designed to be small enough to be placed in the aircraft’s aft equipment bay or baggage compartment to prevent water damage to the unit which is not covered by the warranty.

CAUTION

Use caution when connecting cables and accessories to the Engine Computer and JEDA unit. Failure to properly align pins before tightening the connectors can bend the pins in the assembly and cause electrical shorts resulting in damage to the computer or JEDA unit.

CAUTION

Do not disassemble the JED. There are no field serviceable components inside.

1.2 - Conventions

The following are writing conventions used throughout the manual to describe certain concepts.

1. This manual indicates keys/keystrokes in square brackets. For example: [ENTER], [CLR], [5], [F1].
2. The term “select,” as used in this manual, means to highlight the item on the current menu by using the arrow keys, then press the [ENTER] key.
6. The terms “Analyzer,” as used in this manual refers to the ACES Systems’ Model 1700, 1725 or 4040 Analyzers used as the controller for the JEDA.