
Chapter 3

Equipment and Accessory Troubleshooting

The information in this chapter is provided to assist you in avoiding some of the common pitfalls associated with setting up and using the various accessories required for performing routine calibration run with the 1752B Mini JEDA.

3.1 - Battery Charger

CAUTION

The charger is built for indoor use only. Don't expose the charger to the elements.

The battery should be charged for at least 24 hours prior to the first use of the JEDA. (See chapter 2 for instructions on charging the battery.)

Always replace the cap on the "BATT CHG" port of the JEDA. The unprotected pins may short out on surrounding material and cause damage to the JEDA or battery.

Charging a fully dead battery requires at least two hours. Do not leave the 220V charger connected for more than 24 hours.

The battery is automatically charged by 28V power from the engine computer through the EEC or DEEC Harness or the N1 DEEC Comm cable.

3.2 - Cables

Cables can be damaged if pinched in doors and windows. Always check for pinches, cuts, and abrasions prior to using the cables. Bent or damaged connector pins may cause problems with normal operation or communications. Route cables away from all hot areas and electrical equipment. Duct tape or wire ties are excellent for securing cables. Check all connectors for evidence of damage. An optional automatic cable check device is available from ACES Systems for most cables.

3.3 – Handling of the Unit

Although the JEDA is drop tested from a height of 48 inches, it is possible to damage the unit by rough handling or dropping. Communications errors are often encountered if the unit is mishandled to a degree that causes socket mounted chips to become loose. Always exercise care when handling the unit and always package the unit to absorb shock and possible damage when shipping.

3.4 – Accessories

The 1752B JEDA is supplied with certain standard accessories. These accessories were determined to be the minimum requirement for the JEDA unit to be utilized by the end user. Do not attempt to conduct a calibration run on any aircraft or engine for which you do not have the correct accessories. While it is possible to connect standard hardware such as cables and sensors to an engine, the data, if successfully collected, may be invalid for purposes of a calibration run. If you have questions about hardware or software requirements for a particular engine or airframe application, contact ACES Systems or your Honeywell Engines representative.

3.5 – Application Notes

Application notes are available from ACES Systems at no charge. These application notes are geared for specific engine and airframe types and spell out the necessary parts for conducting a calibration run on that engine or airframe. The appnote contains equipment setup information as well as step-by-step directions on operating the equipment for data collection. You may download these appnotes from the ACES Systems web site (www.acesystems.com) or you may have them delivered to you by email or regular mail by calling the Customer Support function of ACES Systems at the number found at the front of this manual.