

AMSAFE AVIATION INFLATABLE RESTRAINT SYSTEM
MULTIMETER FUNCTIONAL TEST PROCEDURE
for
V23 AAIR System
installed on
Zenair CH 2000 Aircraft

Summary

These instructions direct the user on how to functional test the V23 AAIR® System using a multimeter. These instructions correspond to the V23 AAIR System installed on the Zenair CH 2000 aircraft.

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Revision History

Rev	By	Approved	Date	Revision Summary
NC	RAS	RS	13Apr04	Initial issue:

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1.0 INTRODUCTION

These instructions direct the user on how to functional test the V23 AAIR® System using a multimeter. These instructions correspond to the V23 AAIR System installed on the Zenair CH 2000 aircraft.

Any standard-issue type multimeter with range of less than 2ma short-circuit current capability can be used to perform the functional testing of the V25 AAIR System.

It is strongly suggested to use pins that properly mates with AMSAFE P/N 508320 and / or Viking P/N 019-0801-001, Socket Contact Crimp Barrel in order to not damage any sockets/pins during testing.

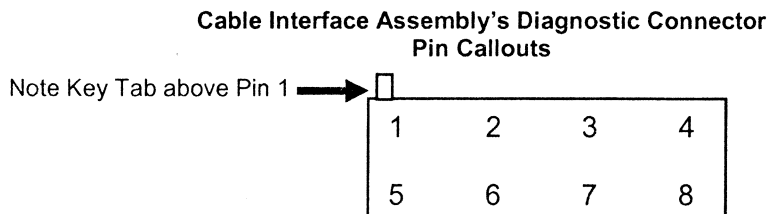
2.0 MULTIMETER PROCEDURE – DUAL SENSOR EMA

Review and observe AMSAFE'S SMM, E508449, and the V23 System Diagnostic Tool, Operation and Maintenance Manual, E508750, for any precautionary notes and statements regarding testing of the AAIR System.

WARNING: EXERCISE CARE WHEN CHECKING VOLTAGES. THE AIRBAG MAY DEPLOY IF TWO PINS IN THE CONNECTOR ARE SHORTED TOGETHER AND SEATBELT IS BUCKLED.

WARNING: DAMAGE TO PINS ON DIAGNOSTIC CONNECTOR CAN RESULT IN INADVERTENT DEPLOYMENT. EXERCISE CARE ACCESSING PINS WHEN CHECKING VOLTAGES.

Procedure:



1. Verify seat is unbuckled.
2. Switch the multimeter "on."
3. Set the multimeter to volts DC.
4. Test pins 1 (+) and 2 (-) reading: >7.0v (battery check).
5. Disconnect the multimeter and set the multimeter to ohms.

WARNING: IF READING BETWEEN PINS 2 AND 7 OR 3 AND 7 IS NOT OPEN, DO NOT BUCKLE SEATBELT - INADVERTENT DEPLOYMENT WILL OCCUR. INADVERTENT DEPLOYMENT MAY RESULT IN SEVERE PERSONAL INJURY AND/OR EQUIPMENT DAMAGE.

6. Test pins 2 & 7 – reading: open circuit (sensor #1).
7. Test pins 3 & 7 – reading: open circuit (sensor #2).
8. Buckle the SAA belt assembly #1.
9. Test pins 1 & 4 – reading: closed circuit (activation switch #1).
10. Unbuckle the SAA belt assembly #1.

11. Test pins 1 & 4 – reading: open circuit (activation switch #1).
12. Test pins 3 & 4 – reading: ~3 ohms, ± 1 ohm (squib #1).
13. Buckle the SAA belt assembly #2.
14. Test pins 1 & 5 – reading: closed circuit (activation switch #2).
15. Unbuckle the SAA belt assembly #2.
16. Test pins 1 & 5 – reading: open circuit (activation switch #2).
17. Test pins 3 & 5 – reading: ~3 ohms, ± 1 ohm (squib #2).
18. Remove multimeter test leads and switch multimeter “off”.