



SERVICE INSTRUCTION M20-110

Date: February 01, 2006

**SUBJECT:** TO ADVISE OWNERS OF AMSAFE SERVICE LETTER 23-003 (ATTACHED).

**MODELS/ SN  
AFFECTED:** MOONEY, M20K, M20R, M20M AND M20S EQUIPPED WITH AMSAFE AVIATION AAIR V23 SYSTEMS.

**TIME OF  
COMPLIANCE:** INSPECT PER, AND COMPLY WITH AMSAFE SERVICE LETTER 23-003 WITHIN NEXT 10 FLIGHT HOURS.

**INTRODUCTION:** AMSAFE has determined that the AAIR V23 Systems Inflator Assemblies may have been shipped for installation onto aircraft with improperly torqued 90-degree Inflator Nozzle Adapters. This condition may result in manual manipulation of the subject 90-degree Inflator Nozzle Adapter. AMSAFE's Service Letter 23-003 details the inspection steps to be taken and applicable return procedures.

**INSTRUCTIONS:** Refer to AMSAFE Service Letter 23-003.

**WARRANTY:** Refer to AMSAFE Service Letter 23-003.

**REFERENCE  
DATA:** Refer to AMSAFE Service Letter 23-003.

**PARTS LIST:** Refer to AMSAFE Service Letter 23-003.

**FIGURES:** Refer to AMSAFE Service Letter 23-003.

# SERVICE LETTER 23-003

26 January 2006

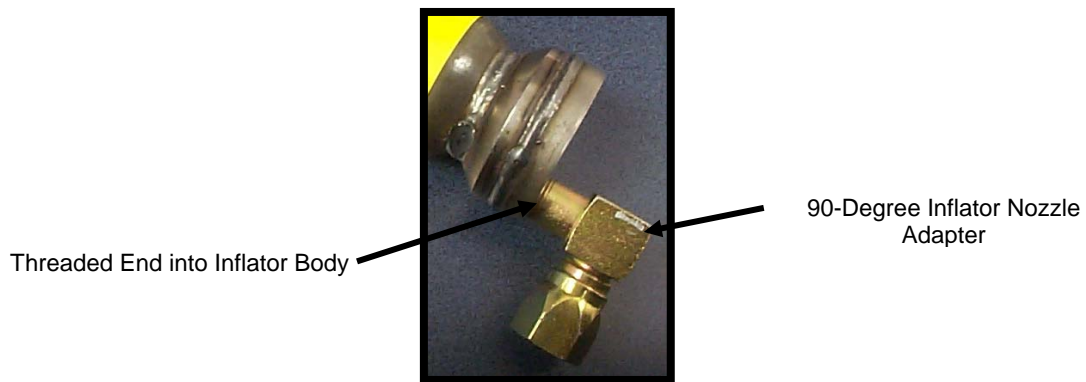
**Subject:** Manufacturing Condition Notification for 90-degree Inflator Assemblies, P/Ns 508795-401 (ROI-V2, 3.1 Mole, Internal Filter) and 508794-401 (ROI-V2, 2.3 Mole, Internal Filter).

**Applicability:**

Adam Aircraft Model A500, Lancair Model IVP, Cessna Models 172, 182, and 206, Mooney Models M20K, M20R, M20S, M20M, and Cirrus Design Models SR20 and SR22 aircraft equipped with AmSafe Aviation AAIR V23 Systems.

**Background:**

It has been brought to AmSafe's attention that these Inflator Assemblies may have been shipped for installation onto aircraft with less than optimal torque applied to the 90-degree Inflator Nozzle Adapter that seats into a threaded connection on the Inflator body (see Figure 1). This manufacturing condition may result in manual manipulation of this 90-degree Inflator Nozzle Adapter.



**Figure 1 – 90-degree Inflator Nozzle Adapter**

**Discussion:**

AmSafe Engineering has determined that this manual manipulation of the nozzle adaptor condition does not affect AAIR System performance, personal safety, or inflator storage concerns. Existing in-service, properly-installed 90-degree Inflator Assemblies are not susceptible to further degradation of this fitting's minimum engagement threshold and immediate corrective action is unnecessary.

**Operator Action:**

AmSafe recommends that all 90-degree Inflator Assemblies be inspected (as directed below) as soon as practical by the procuring aircraft OEM/service center for this manufacturing condition. If a 90-degree Inflator Assembly is found to have this condition, return the affected inflator back to AmSafe Aviation. Upon receipt of the affected inflator, AmSafe will replace the 90-degree Inflator Assembly free from this manufacturing condition.

Inspection Procedure:

Attempt to manually rotate (either direction) the 90-degree Inflator Nozzle Adapter within its threaded connection. If this can be accomplished without any tools, then Inflator Assembly should be replaced.

Returning Inflator Assemblies:

Consult the aircraft OEM procedures or AmSafe's aircraft-specific SMM section applicable to AmSafe RMA procedures and shipping of Inflator Assemblies.

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