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.
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:

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.

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.

Prepared By: Kevin Keeslar
Engineering Manager

Approved By: John Magish
Certification Manager

Approved By: Jim Crupi
Customer Support Manager