



BALLOONS & INFLATABLES  
"Leadership Through Innovation and Engineering"

## AEROSTAR MAINTENANCE BULLETIN 08-05-001

**Date of Issue:** August 29, 2005

**Subject:** Inspection of pilot light orifice (HP2-update and HP3 burners)

**Discussion:** As found in Section 3.0 Airworthiness Limitations, specifically chart 302, (pilot light assemblies), of the ACAI (Aerostar Continued Airworthiness Instructions) it is required that "The pilot light orifice must be inspected to insure that it is not obstructed". The specific instructions for inspecting the pilot light orifice are found in section 5.2.6, 1(i) of the ACAI, read as follows:

***"Clean pilot light orifice with silicone spray or compressed air.  
Look through the orifice to ensure that the orifice is clear. If the  
Orifice remains obstructed install a new orifice."***

This bulletin gives additional information and instructions to be used during the inspection of the pilot light orifice.

**Action:** To ensure that the orifice is open or clear to design specifications, a .011 "go gauge" tool should be used to verify that the pilot light orifice has a sufficient opening to provide the proper fuel flow to the pilot light head. This "go gauge" is to be used during each Annual Inspection, 100-hour inspection and or servicing of the pilot light assembly.

**Procedure:** As required at each Annual Inspection, 100-hour Inspection or when servicing the pilot light assembly, disassemble the pilot light assembly as detailed in Section 5.2.6 of the ACAI. During step 1 (i) push the .011 tip of the "go gauge" through the opening in the pilot light orifice starting from the backside of the orifice. This action will verify that the orifice is open to the specification necessary for the proper operation of the pilot light. Some loosely held contaminants may become dislodged during this action; if so make sure that the contaminants are not pulled back into the orifice when removing the "go gauge". If the "go gauge" will not pass freely through the pilot light orifice, install a new pilot light orifice obtained from the factory.

A "go gauge" tool is being provided along with this Bulletin to each known hot air balloon repair station and A&P or IA who performs inspections or maintenance on hot air balloons. Replacement gauges may be obtained at a nominal fee from Aerostar.

If you have any questions concerning this bulletin, please contact Aerostar Intl., Inc. Hot Air Balloon customer service at (605) 331-3500 or [mail@aerostar.com](mailto:mail@aerostar.com).