

PRECISION
AIRMOTIVE LLC
Service Information
Letter - Fuel Systems

SIL MS-12

SMALL RECIPROCATING ENGINES

All Carburetors

Issued 2/24/06

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SUBJECT: Poor Idle Cut-Off or Fuel Leakage after Shutdown

PURPOSE: To remind aircraft operators of float carburetor fuel leakage issues.

- A) **EFFECTIVITY:** This Service Information Letter is applicable to all Precision Airmotive float carburetor models.
- B) **COMPLIANCE:** Information Only.
- C) **DESCRIPTION:** Precision Airmotive has received reports of poor idle cut-off, or of fuel leaking from the carburetor after shutdown. The conditions reported were the result of fuel leaking into the carburetor float, a damaged or worn float, or a damaged or worn float valve. While such issues are not new and are not specific to any particular carburetor float design, younger mechanics and operators with little or no exposure to carburetors may not recognize the potential cause of such conditions.
- D) **OPERATOR ACTION:** Operators of aircraft equipped with float carburetors should be aware of the potential for these conditions to exist, and should remove the aircraft from service immediately if fuel leakage or poor idle cut-off are evident. The aircraft should be inspected by qualified maintenance personnel prior to return to service.
- E) **MAINTENANCE ACTION:** Mechanics addressing these issues should inspect the carburetor for signs of fuel leakage. This may be evidenced by fuel stains from the bowl vents in the throat of the carburetor and/or fuel in the airbox. Carburetors with signs of fuel leakage should be removed and sent to a qualified repair station for inspection and repair.

NOTE: Fuel leakage after shutdown is also known to occur on certain engines running avgas (most notably the Teledyne Continental Motors model O-470). If inspection of the carburetor on these engines reveals no discrepancies, switching back to avgas may resolve the issue. The use of avgas is not approved by Precision Airmotive, and will void the factory warranty.

- F) **WARRANTY INFORMATION:** Carburetors within the warranty period must be returned to an authorized product support center for warranty consideration. See www.precisionairmotive.com for a list of these facilities.