



AVStar Fuel Systems, Inc.
1365 Park Lane South
Jupiter, FL 33458

www.avstardirect.com

SERVICE BULLETIN

ACCELERATOR PUMP PLUNGERS

DOCUMENT: AFS-SB4

REVISION: ORIGINAL

ISSUED: March 16, 2010

PAGE: 1 OF 2

Service Bulletins are advisory documents issued by a type certificate holder. They are NOT issued or enforced by the FAA. Information contained in a Service Bulletin may or may not be incorporated entirely at the customer's discretion.

1. APPLICABILITY

This Service Bulletin applies to all model MA-3 float type aircraft carburetors manufactured by Volare Carburetors, Precision Airmotive Corporation, Facet Aerospace Products Company and Marvel-Schebler (Borg Warner) that incorporate accelerator pump plungers identified as AV194-593 or 194-593. Such carburetors are referred to later in this Bulletin as applicable carburetors.

2. REASON FOR PUBLICATION

Volare Carburetor LLC. Service Bulletin SB-13, titled "Accelerator Pump Plunger", was published on February 9, 2010. In the publication, field reports are cited that claim "low accelerator pump output and weak acceleration in some engines equipped with MA-3 carburetors". The publication then mentions that AVStar's plungers differ from Volare plungers, but never directly links AVStar's plungers with those MA-3 carburetors cited for weak acceleration performance.

AVStar Fuel Systems, Inc. has released this Service Bulletin to clarify that while it fully supports any action or advice that enhances the safety of aircraft using the applicable carburetors, the sole intent of Volare's Service Bulletin SB-13 appears to be to unfairly discredit AVStar's plungers.

The dimensional differences cited have no relevance on the overall performance of the accelerator pump system and the acceleration performance of the engine. Further, satisfactory engine acceleration performance and plunger durability has been more than adequately demonstrated by Lycoming since their adoption of AVStar carburetor products for installation on new engines.

Another difference cited is the incorrect claim that the skirt spring is unplated.



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AVStar's FAA-PMA approved products are manufactured to withstand all applicable environmental conditions. AVStar's plunger assembly does NOT use a painted main spring as used by Volare. Field experience gained over the overhaul of many thousands of fuel systems has demonstrated the vulnerability of such paint to flake and create dangerous contaminant.

AVSTAR FUEL SYSTEMS, INC. MANUFACTURES FAA-PMA APPROVED ACCELERATOR PUMP PLUNGERS SPECIFICALLY FOR INSTALLATION IN THE APPLICABLE CARBURETORS. FAA APPROVAL OF THESE PLUNGERS UNDER FAR 21.303 (BY TEST AND COMPUTATION) WAS GRANTED ONLY AFTER VALIDATION THAT THE PARTS MEET OR EXCEED THE FORM, FIT AND FUNCTIONAL CHARACTERISTICS OF THE ORIGINAL EQUIPMENT MANUFACTURER'S PARTS. INSTALLATION OF THESE PLUNGERS DURING THE OVERHAUL OR REPAIR OF AN APPLICABLE CARBURETOR MEETS ALL FAA REQUIREMENTS.

3. COMPLIANCE

The use of AVStar's FAA-PMA approved accelerator pump plungers, or any other AVStar FAA-PMA replacement part in applicable carburetors is in full compliance with all applicable FAA regulations.

4. REFERENCE

Volare Carburetors LLC. Service Bulletin SB-13.

5. WARRANTY STATEMENT

There is no warranty associated with this Service Bulletin. This publication does not imply or state any responsibility for the workmanship of any person or entity performing work or maintenance on any model carburetor, fuel system, engine or aircraft. ***The proper use of FAA-PMA approved airworthy parts in no way constitutes a total waiver of liability for any party.*** All parties retain liability, including product liability to the extent of their responsibilities under applicable law.