



## Power Systems

1404 East South Blvd.  
Montgomery, AL 36116  
(334) 286-8551 (334) 286-1992 FAX  
www.kellyaerospace.com

# Service Letter

Letter No. 037

Issue Date: Aug. 25, 2009

## MA-4-5, MA-5 AND MA-6 SERIES PUMP DISCHARGE VALVE

### INTRODUCTION:

Volare' Carburetors, LLC (formerly Precision Airmotive/ Facet/ Marvel Schebler/ Borg Warner) issued Service Bulletin SB-8 on June 17, 2009, the subject of which is "MA-4-5, MA-5 and MA-6 Series Carburetor Pump Discharge Valve" regarding the inspection and replacement thereof. The service bulletin was issued to announce exclusive usage of improved Pump Discharge Valve assemblies which incorporate a spring. In units overhauled/repared by Kelly Aerospace Power Systems, the Pump Discharge Valve assembly is examined for wear and replaced with a KAPS FAA/PMA approved Pump Discharge Valve of the type called out in current overhaul manual parts listing. ***Future overhauled and repaired MA-4-5, MA-5 and MA-6 carburetors will incorporate a KAPS FAA/PMA spring loaded pump discharge valve of the same design shown in Volare' SB-8.***

Kelly Aerospace Power Systems desires that Volare's service bulletin SB-8 be considered, however, this service bulletin regards a product improvement with compliance set at next overhaul or disassembly. Any party may accomplish the intent of Volare' SB-8 at the next overhaul. Unless symptoms occur indicating a condition with the Pump Discharge Valve in KAPS carburetors overhauled prior to release of this service letter, no action need be taken until the next KAPS overhaul or repair.

This service letter is intended to support use of the spring loaded Pump Discharge Valve assembly in all MA-4-5, MA-5, or MA-6 carburetors. This improved design should be used at the next overhaul of original, overhauled, or repaired carburetors regardless of the party which previously performed work.

### COMPLIANCE:

At the next regularly scheduled overhaul or unscheduled disassembly of a MA-4-5, MA-5, or MA-6 carburetor. ***Unless symptoms occur indicating a condition with the Pump Discharge Valve in KAPS carburetors overhauled prior to release of this service letter, no action need be taken until the next KAPS overhaul or repair.***

### EFFECTIVITY:

All MA-4-5, MA-5 and MA-6 carburetor, original, overhauled, or repaired at any time by Kelly Aerospace Power Systems.

*All questions, information, or requests pertaining to flight safety service bulletin SB-8 must be forwarded to Volare' Carburetors, LLC, Product Support Dept. (336) 449-5054.*

*Questions regarding this service letter? Contact KAPS Customer Service at (334) 286-8551.*

## **PROCEDURE:**

### **CAUTION:**

The removal of an airworthy part from a complete installation without symptom or cause may present a hazard to owners, operators, and property. Beyond normal maintenance, NEVER open or disturb the carburetor without documented cause.

### **NOTE:**

Any repair or overhaul activity may be accomplished using Kelly Aerospace Power Systems FAA/PMA approved components and spare parts. All KAPS FAA/PMA approved parts are interchangeable with Precision Airmotive/ Facet/ Marvel Schebler/ Borg Warner original parts.

1. Observe Volare' Carburetors SB-8 in it's entirety and if at overhaul or disassembly of a MA-4-5, MA-5, or MA-6 carburetor, determine your choice of facilities to perform the work. (*Noted as Attachment A of this service letter.*)
2. If the pump discharge valve is a weighted free floating type replace it with a spring loaded valve. The facility of your choice may use original parts or FAA/PMA parts, either of which is acceptable.
3. Parties completing repair or overhaul work may indicate that the intent Volare' SB-8 is accomplished by the installation of a spring loaded pump discharge valve. Assure a proper logbook entry of the overhauled or repaired carburetor.

For reference, please see the Volare' Carburetors, LLC Service Bulletin SB-8 included as "Attachment A" to this service letter. ***For information concerning the use of KAPS FAA/PMA parts refer to KAPS Service Letter 028 and FAA SAIB NE-08-40 dated Aug. 8, 2008.***

## **WARRANTY STATEMENT:**

There is no warranty associated with this Service Letter. 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.

## **CONTACT INFORMATION:**

If you have any questions concerning this service information letter, please contact Kelly Aerospace Power Systems Technical Support at 888-461-6077. Or write:

**Kelly Aerospace Product Support  
1404 East South Blvd.  
Montgomery, AL 36116, USA**

## ATTACHMENT A (SL 037)



### Volare' Carburetors, LLC

125 Piedmont Avenue  
Gibsonville, N.C. 27249, USA

### Service Bulletin: SB-8

Revision: Original  
Date: June 17<sup>th</sup>, 2009

## Subject – MA-4-5, MA-5 and MA-6 SERIES CARBURETORS PUMP DISCHARGE VALVE.

1. **Applicability:** MA-4-5, MA-5 and MA-6 series float carburetors manufactured by Volare Carburetors LLC ("Volare"), and its predecessors Precision Airmotive Corporation, Facet Aerospace Products Company, and Marvel-Schebler (Borg Warner) (hereinafter "Volare").

2. **Reason:** Product improvement.

3. **Background:**

Current valves are of the spring loaded type to improve sealing and reduce wear.



Antecedent valves are of the weighted free-floating design which utilized the weight of the valve alone to provide sealing



This bulletin recommends use of spring loaded valves in all MA-4-5, MA-5 and MA-6 series carburetors

4. **Compliance:** At overhaul or during the next carburetor disassembly replace weighted valves with spring loaded valves and springs.

5. **Parts:**

Valve, spring loaded, part number 34-91  
one per carburetor.



Spring, part number 24-A115 one per  
carburetor.



## ATTACHMENT A (SL 037)

6. **Installation:** Install the valve spring, small end first, over the valve stem. Push the spring onto the stem until it engages in the groove above the valve head. Install the valve, head first, into the bowl. Apply a drop of oil to the valve cap and tighten it to 20 -25 inch pounds.
7. **Voiding of Warranty and Waiver of Liability:** Operation of a carburetor in which other than genuine Volare approved parts are installed, **voids any otherwise applicable warranty and constitutes a complete and total waiver** to the extent permitted by law of any and all rights the owner operator and/or service facility or repairer may have had to hold Volare responsible or liable for the malfunction or failure of such an aviation carburetor.
8. **Safety First:** Volare is a customer-service oriented company committed to technical innovation in pursuit of aviation safety. While Volare has no authority to compel owners to act responsibly and take prudent action to ensure their own safety and the safety of others, Volare believes compliance with this Service Bulletin is important and strongly encourages owners to comply with this Service Bulletin.

