



Volare' Carburetors, LLC

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Service Bulletin: SB-9 Rev A

Original Date: June 15th, 2009

Revision Date: June 23rd, 2009

SUBJECT – MA-4-5, MA-5 & MA-6 Series Accelerator Pump Lever Assemblies

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) (all collectively referred to hereafter as “Volare Float Carburetors”).
2. **Reason:** Volare is issuing this SB to help owners, operators, over-haulers, and repairers, of Volare Float Carburetors identify accelerator pump lever assemblies that do not meet Volare’s quality standards for normal production parts.
3. **Background:** During teardown inspection of carburetors at the factory service center, Volare has found a number of accelerator pump lever assemblies that do not meet Volare’s quality standards for normal production parts. Although the part numbers on the genuine and suspect levers are the same, Volare did not manufacture these parts. The number affixed to the suspect parts appears without the requisite suffix, prefix, or other identification mark, indicating that the parts were made by a manufacturer other than Volare. Volare is concerned that the use of such accelerator pump lever assemblies could result in possible adverse consequences such as described below;
 - a. A fragment of a cracked rivet could break off enter fuel passageways, and clog jets or fall into the accelerator pump chamber causing damage to the pump and body, see Fig. 1.
 - b. A poorly formed or cracked rivet could fail, causing the linkage to become unfastened and possibly causing the throttle or mixture control to jam, see Fig. 1.

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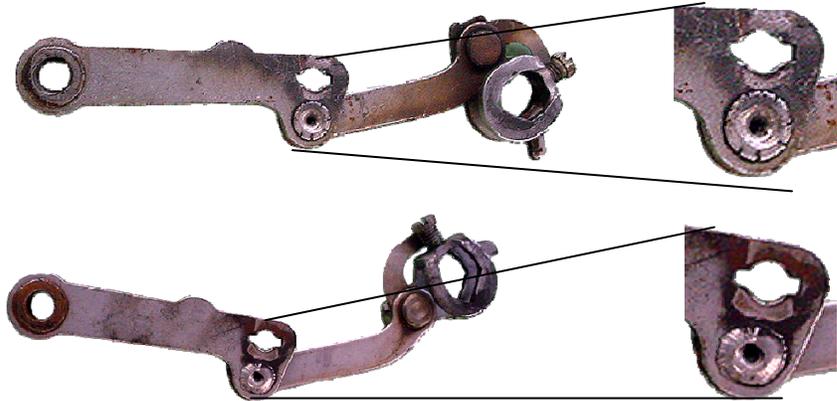


FIGURE 1 Suspect Parts

4. **Compliance:** WITHIN 100 HOURS OF OPERATION OR AT THE NEXT ANNUAL INSPECTION after the original issue date of this Service Bulletin, whichever comes first, Volare recommends that levers having poorly formed and/or cracked rivets (such as those shown in the accompanying photographs) be replaced. Figure 3 illustrates properly formed rivets. Figures 1, 4 and 5 illustrate poorly formed rivets.

5. **Parts identification:**

- a. The part number characters on genuine Volare levers are $\frac{1}{8}$ -inch tall. Rivet heads are uniformly made, flush or semi-flush, and do not exhibit cracks.

- i. Volare pump levers bear stamped part numbers $\frac{1}{8}$ -inch tall, and;



FIGURE 2

- ii. Volare rivet heads are flush or semi-flush, are uniformly made, are not overdriven, and do not have cracks.



FIGURE 3

b. Suspect parts have the following characteristics:

i. **Part number characters are $\frac{3}{32}$ inch tall, and;**



ii. **Fastener heads splay out over a large area, are not uniformly upset, are overdriven, often have multiple cracks, and may display fracture tags.**

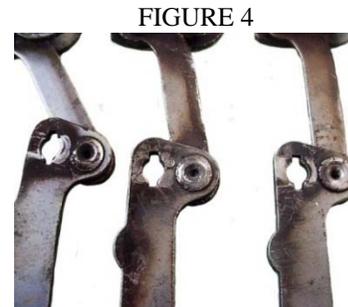


FIGURE 5

6. **Instructions:** Disassemble the carburetor in accordance with the appropriate, current carburetor service manual to the extent necessary to gain access to the accelerator pump lever assembly. Examine the accelerator pump levers to determine that the rivets are properly upset as shown in Figure 3. Replace any parts having overdriven or cracked rivets, Figures 1, 4 and 5, with serviceable parts, see Figure 3. Reassemble and test the carburetor in accordance with the appropriate, current carburetor service manual.
7. **Voiding of Warranty and Waiver of Liability:** Any owners, operators, over-haulers, and repairers, of Volare Float Carburetors who fail to inspect and where necessary replace or repair a carburetor in accordance with this bulletin, or permit operation of a carburetor which is non-compliant with this bulletin, or permit operation of a carburetor in which other than genuine Volare-approved parts are installed, **voids any otherwise applicable warranty and such actions constitute 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. The owner/operator and/or service facility or repairer that returns a carburetor to service that is non-compliant with this service bulletin shall bear the sole responsibility and full liability for any **damages of whatever nature, injury, or death** arising from any malfunction or failure of such a non-compliant aviation carburetor.
8. **Safety First:** While Volare has no authority to compel owners to act responsibly and take prudent action to insure their own safety and the safety of others, Volare believes compliance with this Service Bulletin is important to protect against failures with unacceptable consequences.

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