



## Marvel-Schebler Aircraft Carburetors LLC

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## Service Bulletin: SB-10 Rev B

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

Revision Date: August 12<sup>th</sup>, 2010

## SUBJECT – UNAUTHORIZED THREAD SEALANT

- Applicability:** *ALL MODELS of float carburetors manufactured by Marvel-Schebler Aircraft Carburetors LLC (“Marvel-Schebler<sup>®</sup>”), and its predecessors Volare Carburetors, Precision Airmotive Corporation, Facet Aerospace Products Company, and Borg-Warner (hereinafter “Marvel-Schebler<sup>®</sup> Float Carburetors”).*
- Reason:** Marvel-Schebler<sup>®</sup> is issuing this SB to caution owners, operators, over-haulers, and repairers of Marvel-Schebler<sup>®</sup> Float Carburetors against the improper and unauthorized use of thread sealant during carburetor assembly. **Warning: Failure to follow this advice may result in engine malfunction, damage, injury, or death.**
- Background:** During tear-down and inspection of Marvel-Schebler<sup>®</sup> Float Carburetors at the factory service center, Marvel-Schebler<sup>®</sup> has found thread sealant inside fuel passages. Marvel-Schebler’s examination of carburetors identified with AVstar data tags reveals extensive use of thread sealant on various fittings and the presence of thread sealant inside carburetor fuel passages. Other facilities may also be following the similar unauthorized practice.

**Marvel-Schebler<sup>®</sup> does not use thread sealant on carburetors it manufactures or services and does not authorize or approve the use of thread sealant on its carburetors by others.**

Thread sealant can break away inside a carburetor, clog fuel passages, and result in partial or complete loss of engine power. A previous Marvel-Schebler Service Bulletin, A1-69 and Airworthiness Directive 69-24-03, dealt with a similar issue wherein thread lubricant was discovered in carburetors.

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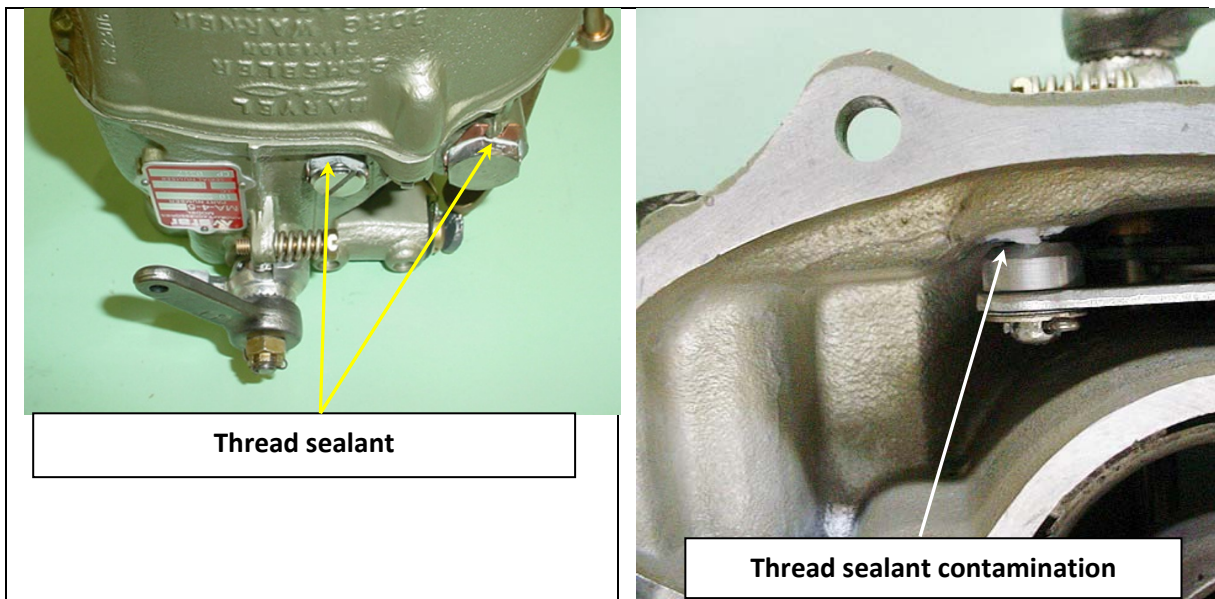


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4. **Compliance:** Owners, operators, over-haulers, and repairers of Marvel-Schebler® Float Carburetors not known to be free of unauthorized thread sealant should:
- Immediately inspect such carburetors for evidence of thread sealant around, but not limited to, various fittings particularly the inlet fittings, bowl drain plugs and, on MA-4-5™, MA-5™, and MA-6™ series carburetors, the accelerator pump pivot screw. Thread sealant can often be seen as a whitish appearing hard or semi-hard paste extruding from under a fitting (see photos) but removal of the fittings may be required to conclusively exclude the presence of unauthorized sealant.
  - If thread sealant is present, immediately remove the carburetor from service, disassemble it, remove the thread sealant, and inspect all passageways, jets, mechanisms, screens, etc., for contamination by the sealant. Using the appropriate Marvel-Schebler® service manual and all applicable Service Bulletins for the carburetor model being repaired, confirm that all techniques and materials for repairs to be accomplished are Marvel-Schebler® approved. Clean, inspect, and reassemble the carburetor in accordance with the appropriate Marvel-Schebler® service manual. Marvel-Schebler® Service Bulletins can be accessed at [Tempestplus.com](http://Tempestplus.com).





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5. **Voiding of Warranty and Waiver of Liability:** Any owners, operators, over-haulers, and repairers, of Marvel-Schebler® 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 Marvel-Schebler®-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 Marvel-Schebler® 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.
  
6. **Safety First:** While Marvel-Schebler® has no authority to compel owners to act responsibly and take prudent action to insure their own safety and the safety of others, Marvel-Schebler® believes compliance with this Service Bulletin is essential to protect against failures with unacceptable consequences. Marvel-Schebler® strongly warns owners of the inherent risks involved in operating an airplane with thread sealant in the carburetor's fuel chambers and passages and strongly encourages owners to comply with this Service Bulletin.

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