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FAA-PMA FACILITY #PQ111NM

MANDATORY Service Bulletin Fuel Systems

Bulletin No.: MSA-14

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**SUBJECT: CARBURETOR THROTTLE BODY TO BOWL SCREW INSPECTION
(Reference Lycoming SB 366)**

MODELS AFFECTED: All engines equipped with Marvel-Schebler, Facet, or Precision Airmotive updraft carburetor models MA-3A, MA-3PA, MA-3SPA, MA-4SPA, MA-4-5, MA-4-5AA, MA-5, MA-6, and MA-6AA.

TIME OF COMPLIANCE: Within the next 50 hours of engine operation and at each 100 hours of engine operation thereafter, or anytime fuel stains are evident.

Instances have been reported of leakage past the gasket between the bowl assembly and throttle body of the carburetor, evidenced by fuel stains in the area of the leak. Leakage of this type may be accompanied by loose screws that attach the bowl and throttle body.

See Figure 1 for illustrative example of the throttle body attaching screws.

INSTRUCTIONS FOR COMPLIANCE:

1. Check the carburetor for evidence of fuel stains on the outside of the bowl along the parting line.
2. Check for movement between the throttle body and bowl.
3. Check each throttle body to bowl attaching screw for looseness by attempting to move the screw and/or locktab washers with your fingers.



CAUTION

Do not attempt to turn the screw with a screwdriver. Turning the screw with a screwdriver may compromise the lock washers and increase the likelihood that the screws will become loose.

4. If there is evidence of fuel stains, movement between the throttle body and bowl, or the throttle body to bowl attaching screws are loose then remove the carburetor in accordance with the applicable engine and airframe service manuals. Send the carburetor to a qualified repair station for troubleshooting and repair.
5. Reinstall the carburetor in accordance with the applicable engine and airframe service manuals. Inspect the engine installation for damaged or worn motor mounts, and/or evidence of out of balance conditions.

6. Make an appropriate logbook entry showing compliance with this Service Bulletin.

If after compliance with this Service Bulletin there is continued fuel leakage, or if there are other conditions not specifically described in this Service Bulletin then contact the engine and/or aircraft manufacturer's product support department.

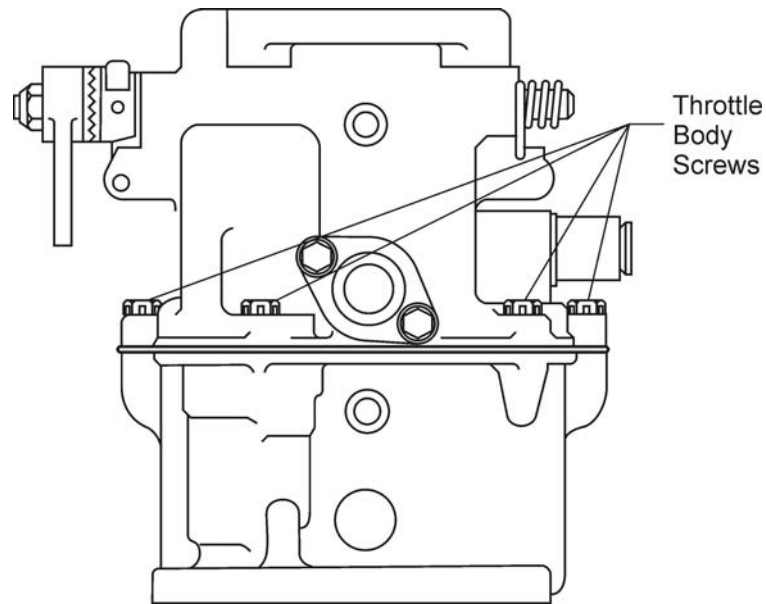


Figure 1. Example of Throttle Body to Attaching Screws