

## Marvel-Schebler Aircraft Carburetors LLC

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## Service Bulletin: SB-28

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# SUBJECT: MA-3<sup>®</sup> SERIES CARBURETORS EQUIPPED WITH ACCELERATOR PUMPS, MA-4SPA<sup>®</sup> CARBURETORS and MULTIPLEX VERSIONS OF MA-4-5<sup>®</sup> CARBURETORS

1. **Applicability:** Marvel-Schebler (and predecessors\*) MA-3<sup>®</sup> series carburetors equipped with accelerator pumps; MA-4SPA<sup>®</sup> carburetors; and multiplex versions of the MA-4-5<sup>®</sup> series carburetors.
2. **Purpose:** To advise the industry of a new single-piece pump inlet strainer housing and associated O-ring seal.
3. **Discussion:** Marvel-Schebler Aircraft Carburetors has redesigned the accelerator pump inlet strainer housing to be a single-piece unit in place of the legacy, multi-piece housing and retainer flange design. See **Figure 1**.

The new 221-76A pump inlet strainer housing is machined from billet aluminum, including an O-ring groove, and is treated to protect against corrosion. The 44-250 O-ring replaces the 16-A16 gasket used with the legacy 221-76 inlet strainer housing and 110-173 retainer flange. See **Figure 2**.

If a legacy 221-76 inlet strainer housing and 110-173 retainer flange are encountered, these components should be examined and, if serviceable, reinstalled with a new 16-A16 gasket in accordance with appropriate MSA service information. Whenever a new 221-76A inlet strainer housing is encountered, it should be examined and, if serviceable, reinstalled with a new 44-250 O-ring in accordance with appropriate MSA service information.

For reference, new MA-3<sup>®</sup> series carburetors equipped with accelerator pumps; MA-4SPA<sup>®</sup> carburetors; and multiplex versions of the MA-4-5<sup>®</sup> series carburetors began shipping with the new 221-76A pump inlet strainer housing and 44-250 O-ring in August 2021. Factory overhauled carburetors will continue to ship with the legacy inlet strainer housing until the inventory of serviceable units is depleted, after which these units will ship with the new design.

\* *Marvel Schebler Company, Borg-Warner, Facet, Precision Airmotive, and Volare*’.

Legacy Pump Inlet

Strainer Housing:

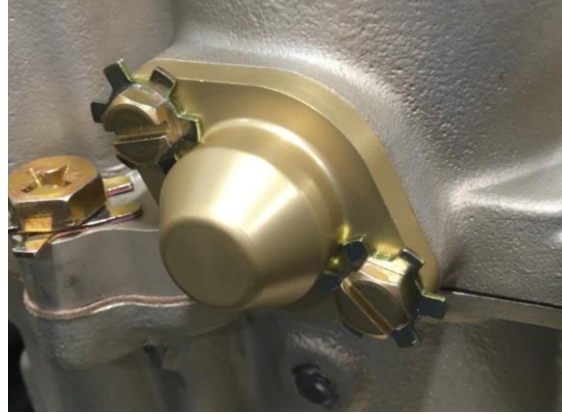
Multi-piece housing/retainer flange



New Pump Inlet

Strainer Housing:

Single-piece housing



**Figure 1**

Legacy Pump Inlet

Strainer Housing:

Multi-piece housing/retainer flange



New Pump Inlet

Strainer Housing:

Single-piece housing



**Figure 2**