

service bulletin

M92-5
Technical Portions Are
FAA Approved

28 February 1992

TO: Aircraft Manufacturers, Distributors, Dealers, Engine Overhaul Facilities,
Owners and Operators of Teledyne Continental Motors Aircraft Engines.

SUBJECT: **PRECISION AIRMOTIVE CORPORATION MANDATORY SERVICE
BULLETINS #MSA-1 REV. 1 AND MSA-2 REV.2**

MODELS **MSA-1 Rev. 1:** A-65, C-75-85-90, O-200, C-145, O-300-A-C-D, GO-300-
AFFECTED: A-C-D-E, O-470-A-J-K-L-R-S-U.

MSA-2 Rev.1: A-65, C-75-85-90, O-200, C-145, O-300-A-C-D

COMPLIANCE: See Precision Airmotive Corporation Bulletins.

Teledyne Continental Motors requires that the attached Precision Airmotive Corporation Service Bulletins MSA-1 Rev. 1 and MSA-2 Rev. 1 be complied with.



3220 100TH ST. SW BLDG E
 EVERETT, WASHINGTON 98204
 FAA-PMA FACILITY #PQ111NM

MANDATORY Service Bulletin Fuel Systems

Bulletin No.: MSA-1
 Revision No.: 1
 Date: 10/15/90
 Revised: 11/11/91

SUBJECT: REPLACEMENT OF COMPOSITE FLOATS WITH METAL FLOATS

Note: This service bulletin supersedes and replaces Facet Aerospace Service Bulletin #A2-90.

This bulletin has been issued to reflect the acquisition of the Facet Aerospace product line (Marvel Schebler Aviation Carburetors) by Precision Airmotive Corporation and to clarify time of compliance for replacement of the carburetor float.

REASON FOR REVISION: Revision 1 updates **COMPLIANCE**, adds Precision Airmotive data plate information to **EFFECTIVITY** and clarifies usage for 666-915 kit.

1. **PLANNING INFORMATION:**

A. **EFFECTIVITY:**

All Marvel Schebler Aviation Carburetors

Note: A carburetor should already contain a metal float if it falls under at least one of the following categories:

1. The letters "MF" are stamped or etched on the lower portion of the Marvel Schebler data plate. (The letters "MF" indicate that Facet Service Bulletin #A1-84A has been complied with.

or

2. It has a black Facet Aerospace data plate.

or

3. It has a black Precision Airmotive data plate.

B. **REASON:**

Previous reports from the field indicate that composite floats may be absorbing fluid and sinking.

C. **DESCRIPTION:**

Replace the existing composite float with a metal float.

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D. COMPLIANCE:

Immediately.

Note: A sinking float may result in disruption of fuel flow to the engine, Precision Airmotive therefore considers the replacement of composite floats with metal floats mandatory. An Airworthiness Directive (A.D.) has been requested.

E. APPROVAL:

None.

F. MANPOWER:

Not applicable.

G. MATERIAL AVAILABILITY:

Metal floats are available from local distributors in kits:
666-915 For all Model MA-3 and MA-4SPA carburetors
666-916 For all Model MA4-5, MA-5 and MA-6 carburetors
666-917 For all Model HA-6 carburetors

H. TOOLING:

Not applicable.

I. REFERENCES:

Facet Service Bulletin #A1-84A, Released: 5/84

J. WEIGHT AND BALANCE:

Not applicable.

K. PUBLICATIONS AFFECTED:

Aircraft Carburetors & Parts Manual, Form # FSM

2. ACCOMPLISHMENT INSTRUCTIONS:

- A. Remove and replace the float per instructions contained in the float kit.

NOTE: Vertical black bands in the left hand margin denote changes from previous release.



AIRMOTIVE CORPORATION

3220 100TH ST. SW BLDG E
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FAA-PMA FACILITY #PQ111NM

MANDATORY Service Bulletin Fuel Systems

Bulletin No.: MSA-2
Revision No.: 1
Date: 10/15/90
Revised: 11/11/91

SUBJECT: ONE PIECE PRIMARY AND MAIN VENTURI

Note: This service bulletin supersedes and replaces Facet Aerospace Service Bulletin #A1-90.

This bulletin has been issued to clarify time of compliance for replacement of the venturi and to reflect the acquisition of the Facet Aerospace product line (Marvel Schebler Aviation Carburetors) by Precision Airmotive Corporation.

REASON FOR REVISION: Revision 1 updates **COMPLIANCE**, clarifies **EFFECTIVITY, MATERIAL AVAILABILITY, AND ACCOMPLISHMENT INSTRUCTIONS**.

1. PLANNING INFORMATION:

A. EFFECTIVITY:

All MA-3A, MA-3PA, MA-3SPA and MA-4SPA Marvel Schebler and Facet Aerospace Carburetors.

Note: The carburetor should already contain the one piece venturi if it falls under either of the following categories:

- 1. The letter "V" is stamped or etched on the lower portion of the data plate.
- or
- 2. The carburetor has a black Precision Airmotive data plate.

B. REASON:

There have been reported instances of primary venturi failures causing rough engine operation or engine power loss.

C. DESCRIPTION:

A one piece combination primary and main venturi casting is available to replace the two piece venturi. This bulletin provides instructions for removing the old two piece venturi and replacing it with the new one piece venturi.

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D. COMPLIANCE:

Immediately.

Note: A venturi failure may result in disruption of fuel flow to the engine, Precision Airmotive therefore considers replacement of affected venturies mandatory. An Airworthiness Directive (A.D.) has been requested.

E. APPROVAL:

Technical aspects FAA approved.

F. MANPOWER:

Not affected.

G. MATERIAL AVAILABILITY:

One piece venturies are available from local distributors. To determine the correct one piece venturi part number, refer to the appropriate carburetor parts list in the Aircraft Carburetor & Parts Manual for the main venturi part number. Replace both the primary and main venturi with the new one piece venturi indicated below (old primary venturi numbers are not listed).

<u>OLD MAIN</u> <u>VENTURI</u>	<u>NEW ONE PIECE</u> <u>VENTURI</u>
46-462	46-F7
46-486	46-F8
46-498	46-F9
46-A2	46-F10
46-A65	46-F11
46-A70	46-F12

H. TOOLING:

Not affected.

I. REFERENCES:

Aircraft Carburetors & Parts Manual, Form #FSM.

J. WEIGHT AND BALANCE:

Not affected.

K. PUBLICATIONS AFFECTED:

Aircraft Carburetors & Parts Manual, Form #FSM.

2. **ACCOMPLISHMENT INSTRUCTIONS:**

- A. Follow the procedures in the Aircraft Carburetor Service Manual to disassemble and inspect the carburetor. Install the new venturi using the M-83 Primary Venturi Assembling Tool. Press into place until the M-83 tool contacts the throttle body surface. Assure the venturi is properly oriented so that the nozzle relief notch will be in alignment with the nozzle, and that the end of the leg supports of the primary section of the venturi are engaged in the grooves in the throttle body.
- B. Complete assembly of the carburetor per instruction in the Aircraft Carburetor Service Manual.
- C. Stamp or etch a small 'V' on the lower portion of the name plate to indicate compliance with this bulletin.

NOTE: Venturi retainer clips (29-113) are not required for installation of one piece venturies and must not be used.

NOTE: Vertical black bands in the left hand margin denote changes from previous release.