



Service Information Letter - Fuel Systems

SIL MS-2 Revision 1

SMALL RECIPROCATING ENGINES

Model MA-4-5 Carbs

Issued 5-19-97

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SUBJECT: Conversion Information for 10-6035-11 carburetors.

PURPOSE: To provide instructions for conversion of 10-6035 or 10-6035-1 carburetors into 10-6035-11 carburetors.

A. EFFECTIVITY: This Service Information Letter is applicable to MA-4-5 carburetors, parts list 10-6035 or 10-6035-1.

B. DESCRIPTION:

1. The 10-6035-11 carburetor is the same as the 10-6035 except as follows:

Nozzle 47-857 replaces 47-819
Air Metering Pin 173-144 replaces 173-160

2. The 10-6035-11 carburetor is the same as the 10-6035-1 except as follows:

Nozzle 47-857 replaces 47-779

C. REQUIRED PARTS:

1. To convert 10-6035 or 10-6035-1, use conversion kit 666-953 which contains the following parts:

Part Number	Quantity	Description
47-857	1	Nozzle
16-A30	1	Nozzle Gasket
16-A31	1	Body to Bowl Gasket
16-A42	1	Power Jet Gasket
78-A97	6	Lock-Tab Washer
82-11	1	Cotter Pin - Float Shaft
173-144	1	Air Metering Pin
24-A30	1	Spring - Air Metering Pin

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D. ACCOMPLISHMENT INSTRUCTIONS: The following section lists the basic steps for the conversion. Refer to Precision Airmotive service manual #FSM.

- 1) Remove the carburetor from the engine.
- 2) Remove the carburetor throttle body from the bowl (§§ 1 & 2).
- 3) Remove the float assembly and bowl gasket from the throttle body (§§ 3).
- 4) If converting 10-6035-1 go on to step 5, if converting 10-6035 remove air metering jet and pin assembly (§§ 19 & 20)
- 5) Remove the nozzle assembly (§§ 28 & 29).
- 6) If converting 10-6035-1 go on to step 7, if converting 10-6035 install the new air metering pin and spring into air metering jet and install assembly. (§§ 62 & 63). Adjust air metering assy. (economizer) to Flush +1 1/4 turns or .428" B-C Dim.
- 7) Install the new nozzle assembly (§§ 92).
- 8) Install new a bowl gasket, and the float assembly (§§ 72-85).
- 9) Reassemble the carburetor using the new lock-tab washers (§§ 93 -96).
- 10) Test carburetor (§§ 129-136).
- 11) Stamp a "1" or a "-11" at the end of the part number on the data tag so that it reads "10-6035-11".
- 12) Reinstall the carburetor on the engine according to the applicable engine/airframe manual instructions.

NOTE: The paragraph numbers, indicated by the "§" symbol, refer to form FSM-OH2, in the "Overhaul" section of the manual

E. RELATED SERVICE INFORMATION:

Ref.: Robinson Helicopter Co. Service Letter #SL-14