



Service Information Letter - Fuel Systems

SIL MS-3 Revision 1

SMALL RECIPROCATING ENGINES

HA-6

Issued 3-5-98

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SUBJECT: Conversion Information for 10-6030-1 carburetors.

PURPOSE: To provide instructions for conversion of 10-6030 carburetors into 10-6030-1.

A. **EFFECTIVITY:** This Service Information Letter is applicable to HA-6 carburetors, parts list 10-6030.

B. **DESCRIPTION:** The 10-6030 carburetor is the same as the 10-6030-1 except as follows:

Nozzle 47-858 replaces 47-A163
Power Jet 49-A400 replaces 49-A282
Idle Tube 229-609 replaces 229-598
Accelerator pump circuit is added
Air Metering valve (Economizer valve) is Re-Adjusted

C. **REQUIRED PARTS:** Conversion kit 666-956 contains the following parts:

Part Number	Quantity	Description
47-858	1	Nozzle
49-A400	1	Power Jet
229-609	1	Idle Tube
16-367	1	Power Jet Gasket
16-B57	1	Pump Discharge Valve Gasket
16-B59	1	Secondary Nozzle Gasket
16-B324	1	Cover to Bowl Gasket
36-587	1	Pump Inlet Check Valve
36-596	1	Pump Discharge Check Valve
49-A269	1	Pump Discharge Jet
78-A122	6	Lock-Tab Washer
78-A295	1	Pump Plunger Retainer/Washer
81-298	1	Pump Linkage Nut
88-92	1	Pump Guide
119-124	1	Pump Actuating Rod
179-45	1	Expansion Plug
194-625	1	Pump Plunger Assy.
M-522	1	Pump Rod Guide Tool

D. **ACCOMPLISHMENT INSTRUCTIONS:** The following section lists the basic steps for the conversion. Refer to Precision Airmotive service manual #FSM. The paragraph numbers, indicated by the "¶" symbol, refer to form FSM-OH4, dated July 15, 1994, in the "Overhaul" section of the manual.

- 1) Remove the carburetor from the engine.
- 2) Remove the bowl cover from the carburetor (¶ 1-3).

- 3) Remove the float assembly and cover gasket from the bowl cover (¶ 4-8) (DO NOT REMOVE FLOAT VALVE SEAT)
- 4) Remove the nut attaching P/N 119-126 rod to pump linkage and remove rod (¶ 11 & 23).
- 5) Remove air metering valve plug and washer (¶ 27).
- 6) Remove the power jet and gasket, and idle tube (¶ 29 & 30).
- 7) Remove the secondary nozzle and gasket (¶ 32).
- 8) Remove check valve plug (¶ 35).
- 9) Remove expansion plug and pump discharge plug (¶ 42).
- 10) Install pump discharge check valve gasket, check valve, and plug (¶ 60).
- 11) Install pump discharge jet and expansion plug (¶ 63).
- 12) Install pump inlet check valve and pump plunger (¶ 76).
- 13) Install pump guide (¶ 77).
- 14) Install pump rod using M-522 guide tool and connect to pump plunger with pump plunger retainer/washer (¶ 78).
- 15) Attach pump rod to linkage plate with new pump linkage nut (¶ 79).
- 16) Adjust the air metering valve to "Flush plus 1 3/8 turn" (3/8 turn in from previous setting) (¶ 82)
- 17) Install and safety the air metering valve plug (¶ 83)
- 18) Install the new power jet and gasket (¶ 87).
- 19) Install the new idle tube (¶ 90).
- 20) Install the new secondary nozzle and gasket (¶ 92).
- 21) Install a new cover gasket and the float assembly (¶ 95-105).
- 22) Reinstall the cover assembly using the new lock-tab washers (¶ 108-112).
- 23) Test carburetor (¶ 115-123).
- 24) Stamp a "1" at the end of the part number on the data tag so that it reads "10-6030-1".
- 21) Reinstall the carburetor on the engine according to the applicable engine/airframe manual instructions.

E. RELATED SERVICE INFORMATION:

Ref.: Schweizer Aircraft Corporation Installation Instructions: CKP-C-76
Kit Number: SA-269K-096-01