



**American General
Aircraft Corporation**

AMERICAN GENERAL SINGLE ENGINE AIRCRAFT SERVICE KIT NO. 153

SUBJECT:

Fuel selector valve replacement .

PURPOSE/DISCUSSION:

The purpose of this service kit is to remove the original fuel valve assembly in the aircraft and replace it with the 5401133-6 valve supplied with this kit.

DESCRIPTION:

This Service Kit contains the parts and instructions required to replace the existing fuel valve assembly with a new valve assembly.

PARTS REQUIRED:

<u>PART NUMBER</u>	<u>NOMENCLATURE</u>	<u>QUANTITY</u>
5401133-6	Fuel Selector Valve	1
MS35207-264	Screw	2
MS35335-32	Lock Washer	2
242	Loctite Adhesive	10ml
401114-4	Handle	1

SPECIAL TOOLS/EQUIPMENT REQUIRED:

Standard aircraft mechanic's tools.

EFFECTIVITY:

AG-5B/ Tiger Serial Number 99998 and 10000 thru 10125.
AA-5, AA-5A, and AA-5B Serial Number 0001 and subsequent.

WEIGHT AND BALANCE:

The effect of this accessory kit on the aircraft's basic weight and balance is negligible.

PRICE:

Prices are subject to change without notice.

T.B.D.

MODIFICATION INSTRUCTIONS:

The following instructions are written as a guide to perform this modification. Compliance with safe maintenance practices as recommended in the Maintenance Manual and FAA regulations is mandatory. Please read all instructions and review all diagrams before starting this modification.

- A. Prepare aircraft for safe maintenance as follows:
- A-1 Ensure all cockpit switches are off.
 - A-2 Ensure aircraft is grounded and battery is disconnected.
 - A-3 Observe all common aircraft maintenance safety practices.
- B. Replace the fuel selector valve assembly with the new fuel selector valve assembly as follows:

- B-1 Remove the original valve as follows. Refer to maintenance manual, section 28-2-1, page 401.

(1) Remove forward upper console panel, refer to chapter 25 of maintenance manual.

CAUTION: WHEN LINES ARE DISCONNECTED SOME FUEL SPILLAGE MAY OCCUR. TAKE PROPER PRECAUTIONS TO PREVENT FIRE HAZARD DUE TO SPILLAGE.

(2) Disconnect fuel lines from three elbows attached to fuel selector valve. Cap open lines.

(3) Remove two nuts, washers and bolts which secure fuel selector valve to bracket.

(4) Remove decal on handle. Remove screw which attaches handle to valve stem, and retain for later use.

(5) Remove fuel selector valve from bracket.

- B-2 Install the 5401133-6 valve as follows. Refer to maintenance manual, section 28-2-1, page 401.

(1) Remove elbow fittings from original fuel valve and install on new valve.

(2) Position fuel selector valve in bracket. Trim bracket flange as required to allow clearance for fittings. A minimum 1/8" flange must remain.

- (3) Install 5401133-6 valve using two MS35207-264 screws and two MS35335-32 lock washers. Use Loctite 242 in accordance with manufacturer's instructions to lock screw threads in place.
 - (4) Install 401114-4 handle on valve stem and secure with screw retained from old valve assembly. Place decal over screw head.
 - (5) Clean exposed elbow threads.
 - (6) Reconnect three fuel lines and torque to 100 ± 25 inch pounds.
 - (7) Fill both fuel tanks. Set fuel selector to left tank, then to right tank, while inspecting for leakage at connectors and valve.
 - (8) Reinstall forward upper console panel (refer to Chapter 25 of the maintenance manual).
- C. Record compliance in the aircraft logbook.
- D. Please fill in the attached compliance card and return it to:

American General Aircraft Corp.
P.O. Box 5757
Greenville, MS 38703