

## SOLEX 40 DHW 1-BARREL

Saab Sonett (3-Cyl.)

### DESCRIPTION

Downdraft single barrel carburetor mounted on a separate throttle body. In multiple carburetor systems, a common throttle body is used for up to three carburetors. The carburetor body has jets for four different systems as follows: high speed system; low speed system; idling system; and cold starting system. The float bowl is separate from the carburetor.

**High Speed System** - Utilizes a choke tube, main jet and calibrated holder, emulsion jet and an emulsion tube.

**Low Speed System** - Contains a fuel jet, air jet and three passages drilled in carburetor body just on top of the throttle valve.

**Idling System** - Consists of fuel jet and an idling jet. It also incorporates an air regulating screw located on the throttle body. Only the middle carburetor on triple carburetor systems has an idling system. The engine also receives part of the fuel for idling through a hole in the throttle body. This hole is located behind the throttle valve.

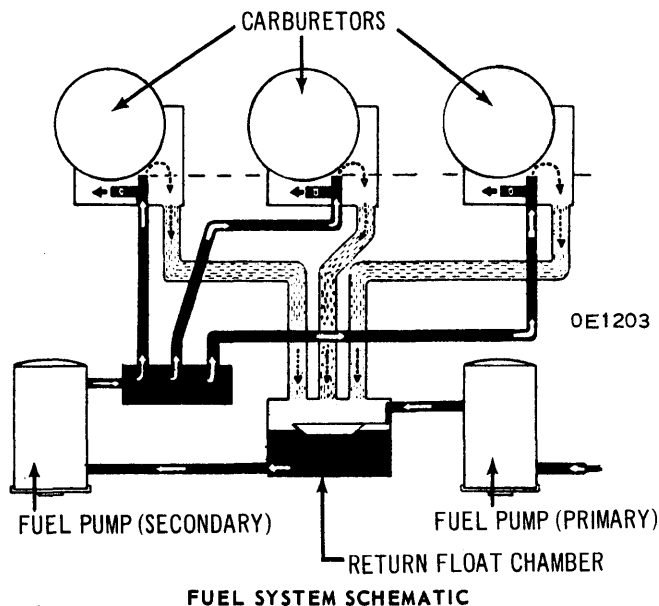
**Cold Starting System** - Only the middle carburetor in triple carburetor systems has this device. It is made up of a fuel jet and a sliding valve for regulating the volume of the fuel/air mixture. Opening the throttle valve cancels the effect of the cold start device.

**Float Bowl** - This is located on the floor of the engine compartment and supplies fuel to all carburetors in the system. The fuel level in the bowl is determined by a float and a needle valve.

### ADJUSTMENT

#### Fuel Level Adjustment

The fuel level is determined by the carburetor design and it cannot be adjusted, nor should it require adjustment. The fuel level can vary within wide limits without affecting carburetor performance. If leaks develop or if there is too little fuel in the bowl, only the needle valve and its bearing need to be inspected for wear or damage.



### Idle Adjustment

With engine running at normal operating temperature, turn throttle screw so that engine idles at about 600-750 RPM. Turn mixture screw to give the highest idling speed. Adjust throttle screw until 600-750 RPM is obtained. Repeat above procedure until proper idle is achieved.

### Checking Idle Adjustment

Road test car after setting idle speed. If engine RPM drops when wide open throttle is applied, adjust mixture screw until this no longer occurs. It may be necessary to loosen the screw by 1/4-1/2 turn, and then readjust idle speed by turning throttle screw.

## OVERHAUL

### Disassembly & Reassembly

- 1) Remove carburetors, complete with intake manifold, and cover the ports to keep dirt out.
- 2) Remove throttle body assembly and carburetors from the intake manifold and remove the gaskets. Clean the outside of the carburetors and remove them from the throttle body assembly.
- 3) Inspect jets, cold start device slide valve for wear or damage.
- 4) Inspect throttle spindle for wear or damage. Clean all parts and passages and reassemble carburetors.
- 5) Using new gaskets, assemble carburetors on the throttle body assembly. Install new intake manifold gaskets and connect the unit to the engine.

Part	Number or Size
Choke Tube .....	33
Main Jets	
Carb. for Cyl. No. 1 & 3 .....	122.5
Carb. for Cyl. No. 2 .....	130
Emulsion Jet .....	240
By-pass Fuel Jet .....	63
By-pass Air Jet .....	100
Idle Fuel Jet (Center Carb. Only).....	45
Idle Air Jet (Center Carb. Only).....	100

