

SOLEX 40 BI 1-BARREL

Saab 95 & 96 (3-Cyl.)

DESCRIPTION & OPERATION

The 40 BI carburetor is a single barrel down draft type. It is fitted with a special cold start device which supplies extra fuel for starting. The air/fuel ratio is determined by a starting air jet and fuel jet. The device is cable operated from the dash. When the cold start device is in action the throttle should remain closed so as not to counteract the action of the cold start device. The high speed system is comprised of the main jet, emulsion jet, and emulsion tube. Idling is controlled by means of the air jet, fuel jet, and idle mixture screw. All jets are accessible, except the idle air jet, from the outside of carburetor.

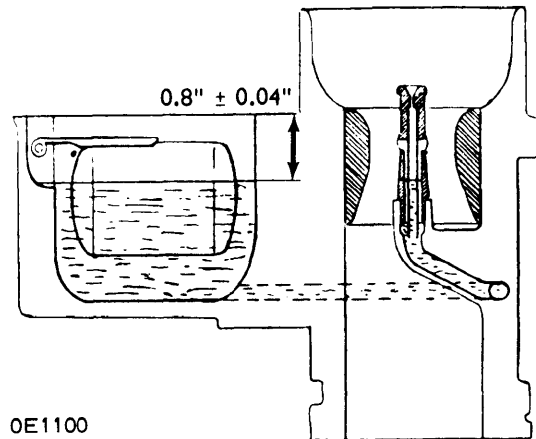
ADJUSTMENT

Idling Adjustment

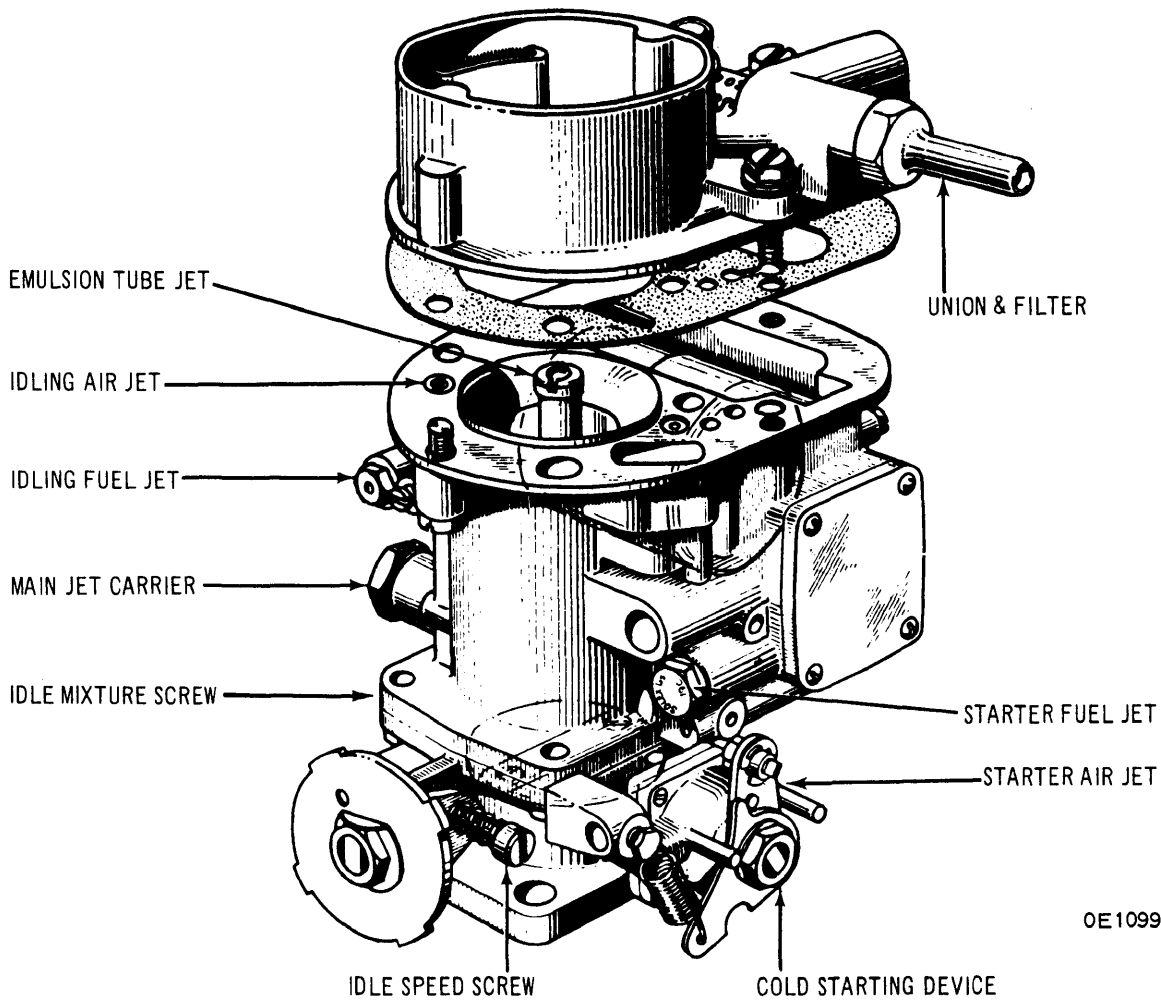
With engine at operating temperature adjust idle speed screw to obtain 600-750 RPM. Now adjust idle mixture screw to give highest idle speed. Readjust, if necessary, idle speed screw to 600-750 RPM, then recheck mixture screw. Repeat this procedure until best idle is obtained. On this carburetor it is better to screw in mixture screw a little too far than not enough.

Float Level Adjustment

Adjust float level with carburetor installed on car. Allow engine to idle, switch off ignition without touching accelerator. Remove air cleaner, and remove fuel hose from



FLOAT LEVEL ADJUSTMENT



CARBURETOR EXTERNAL VIEW

Solex Carburetors

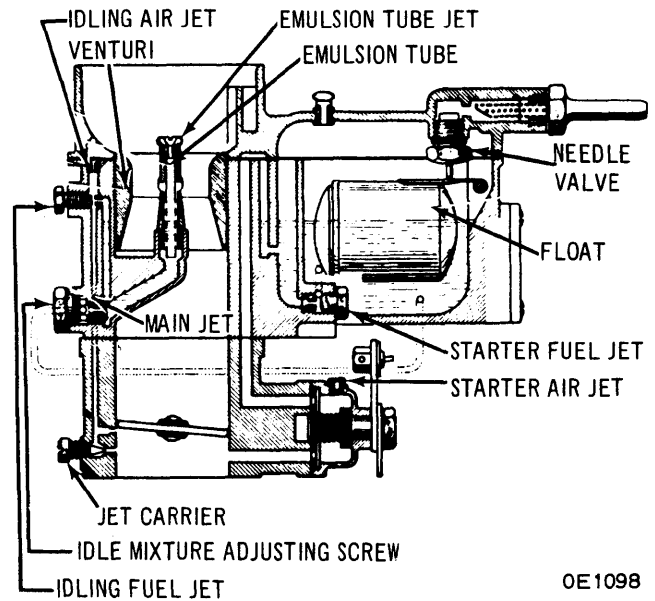
SOLEX 40 BI 1-BARREL (Cont.)

carburetor. This **MUST BE** done to prevent fuel pump from filling float chamber when cover is removed. Remove float chamber cover. Measure float level with caliper gauge. Distance between top of float chamber and fuel level should be $.80" \pm .04"$ (21 ± 1 mm). If engine is hard starting when warm, lower float level to $.87"$ (22 mm). Float level is raised by filing down fiber washer under needle valve; to lower it add an extra washer. After making adjustment recheck level to be sure required result is obtained.

OVERHAUL

Disassembly & Reassembly

Clean carburetor externally. Remove float chamber cover, check needle valve and gasket. Check float lever and spindle for bent condition, replace if necessary. Shake float to be sure no gas has leaked in. Check main jet, idling jet, and emulsion jet, blow clean with compressed air. Check slide of cold starting device for excessive surface wear. Before assembling clean all parts and blow out all passages with compressed air. Be sure to use a new float chamber gasket when reassembling.



OE1098

CARBURETOR SECTIONED