

Solex Carburetors

SOLEX PBIC & PBICT TYPE 1-BARREL

Peugeot

403 (1962-67)
404 (1962-70)
504 (1968-70 & 1972)

DESCRIPTION

PBIC and PBICT carburetors are single barrel downdraft with automatic or manual choke. Manual choke is cable operated from dash. Automatic operates with a bi-metal spring with heat supplied by an exhaust gas delivery tube. Enrichment during choking is accomplished by a rotary valve which supplies extra fuel for cold starting, this system replaces the conventional butterfly valve type. The high speed system is comprised of the main jet, emulsion tube and emulsion jet.

OVERHAUL

Disassembly

1) On carburetors with an automatic choke, remove air intake tube from choke housing and float chamber cover before disassembly. The two tubes in the float chamber are not removable. Now remove three float chamber cover screws and remove float chamber cover and gasket. Remove fuel inlet plug and strainer. Remove needle valve and gasket, lift out float and shaft assembly. Remove accelerator pump injector and gasket. Remove correction jet and emulsion tube. Remove idle air bleed and idle jet.

2) Invert carburetor and remove choke tube screw and choke tube. Remove idle mixture screw. Remove pump jet, remove main jet carrier assembly and jet from end of carrier. Remove choke jet and gasket.

3) Remove throttle shaft nuts from both ends of shaft. Remove throttle control yoke, stop plate, and idle speed adjusting screw. Remove throttle valve screws and pull out valve. Extract dust rings from throttle shaft and pull out shaft

4) Remove accelerator pump control rod assembly. Remove pump inlet valve, gasket, and strainer. Remove four screws and lift off accelerator pump and gasket.

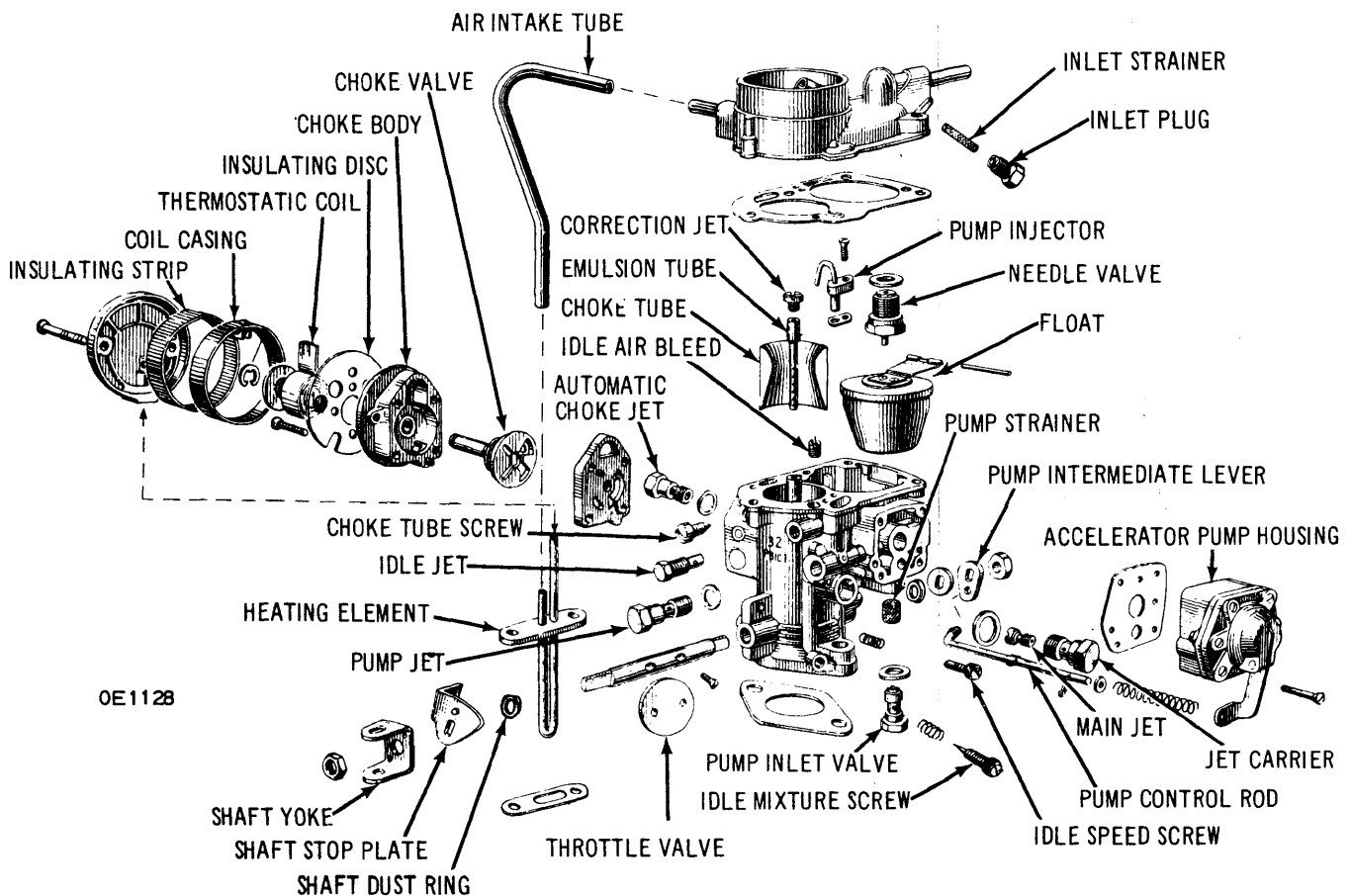
5) Remove two screws attaching automatic choke mechanism and remove as an assembly. Remove four screws attaching insulator disc, choke body and spacer block to carburetor housing and remove mechanism.

Reassembly

Reassemble in reverse order of disassembly using all new gaskets.

Automatic Choke Service

Remove choke body with valve and shaft from carburetor. Allow parts to soak for five minutes in a suitable solvent. Alternately turn the valve and shaft to work off carbon deposits. Carefully clean deposits from valve spacer block and choke valve face on choke body. Carefully check parts for excess wear or damage before reinstalling. Remove thermostatic coil from carburetor. Carefully inspect unit for carbon deposits. If deposits are present, clean coil and inside of cover. If coil is damaged unit must be replaced. When reassembling carefully index thermostatic coil in coil casing. Install cover, indexing the casing rivet with the punch mark on the scale of the choke body.



SOLEX PBIC (TYPICAL)