

1974-79 FUEL SYSTEMS

Motorcraft 1250 1-Barrel Carburetors

2-67

Saab: Sonett

DESCRIPTION

Carburetor is a single venturi, downdraft type. Cold starting is controlled by a water heated thermostatic choke. Carburetors are also fitted with a decel valve which meters an additional amount of air and fuel during engine deceleration ensuring more complete combustion.

ADJUSTMENTS

IDLE SPEED & MIXTURE

See appropriate TUNE-UP PROCEDURES article.

COLD (FAST) IDLE RPM

See appropriate TUNE-UP PROCEDURES article.

FLOAT LEVEL

With accelerator upper body removed and held in a vertical position, measure distance from float bottom to upper body gasket. See Fig. 1. Distance should be 1.13" (28.8 mm). If necessary, bend tab until correct specification is obtained.

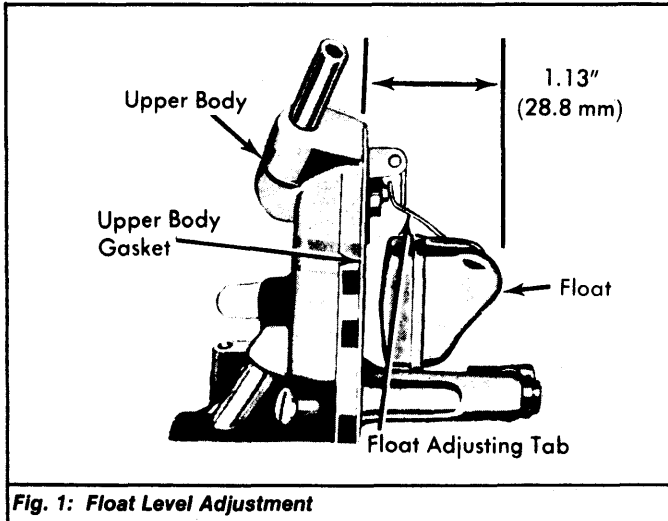


Fig. 1: Float Level Adjustment

FLOAT DROP

Turn upper body to a horizontal position and again measure the distance from float bottom to upper body gasket. Adjust, as necessary, by bending float adjusting tab. See Fig. 2.

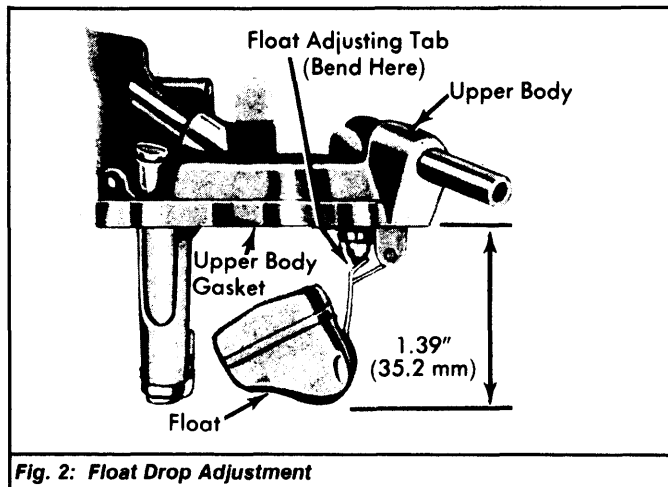


Fig. 2: Float Drop Adjustment

ACCELERATOR PUMP STROKE

1) Loosen throttle stop screw until throttle plate is fully closed. Depress accelerator pump diaphragm plunger and check clearance between operating lever and plunger.

2) If necessary, adjust gooseneck of pump push rod to obtain specified clearance. Close gooseneck to lengthen stroke or expand it to shorten stroke. See Fig. 3.

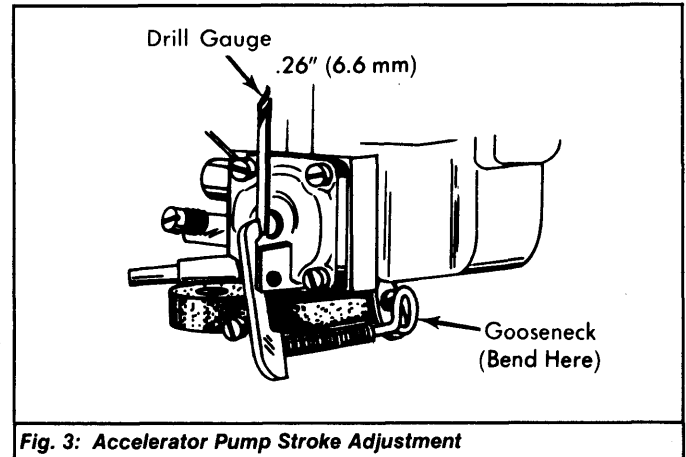


Fig. 3: Accelerator Pump Stroke Adjustment

CHOKE PULL-DOWN

1) Remove thermostatic spring and water housing. Depress vacuum piston until vacuum bleed port is revealed. Insert a .040" (1.0 mm) wire gauge into port. See Fig. 4.

2) Raise piston to trap wire and close plate until its movement is stopped by the linkage. Partially open throttle for fast idle tab to clear cam. Check clearance at bottom edge of choke plate. If necessary, bend extension of choke thermostatic lever until .08-.10" (2.0-2.5 mm) clearance is obtained.

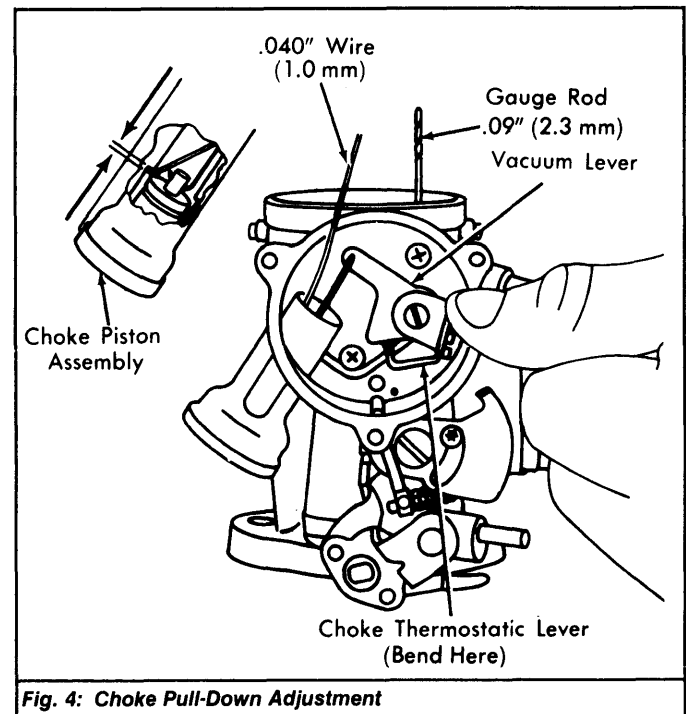


Fig. 4: Choke Pull-Down Adjustment

UNLOADER ADJUSTMENT

With throttle fully open and against its stop, check clearance between the bottom of choke plate and carburetor body. Adjust, if necessary, by bending projection on fast idle cam to obtain specified clearance.

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Motorcraft 1250 1-Barrel Carburetors (Cont.)

OVERHAUL

DISASSEMBLY

- 1) Remove shoulder screw retaining fast idle cam and rod assembly to lower body. See Fig. 5. Remove 6 screws holding upper body to lower body and carefully lift off upper body. Gasket should come away with upper body.
- 2) Remove float arm pivot pin, float, and needle valve. Remove gasket from upper body. Remove weight and accelerator pump discharge ball valve. Remove needle valve housing and extract screen.
- 3) Remove main jet, thermostatic spring, and water housing. Remove screw securing thermostatic spring lever and remove lever. Remove choke piston lever, choke piston link, and piston from housing.

- 4) Remove 2 screws retaining choke inner housing and withdraw the inner housing and gasket. Remove choke control lever and shaft assembly. Remove choke control rod from inner housing and carefully remove Teflon bushing (if necessary).
- 5) If necessary to remove choke plate and shaft, first remove the 2 air cleaner retaining pins using side cutters. Remove air cleaner retainer. Remove screws securing choke plate to shaft and remove plate. Before removing shaft remove burrs from around screw holes.
- 6) Remove 4 screws securing accelerator pump and remove accelerator pump body, operating arm, diaphragm, and return spring. Remove fuel shut-off washer and its return spring. Remove accelerator pump push rod arm from throttle spindle. Remove 2 screws clamping throttle plate to its spindle.

REASSEMBLY

To reassemble, reverse disassembly procedure.

1974 CARBURETOR ADJUSTMENT SPECIFICATIONS								
Ford Carb. No.	Idle Speed (Engine RPM)		Float Level Setting In. (mm)	Float Drop Setting In. (mm)	Accel. Pump Stroke In. (mm)	Choke Pull-Down Setting In. (mm)	Unloader Setting In. (mm)	Auto. Choke Setting
	Hot	Fast						
All Models	800-900	1800-2000	1.13 (28.8)	1.4 (35.2)	.26 (6.6)	.09 (2.3)	.19 (4.8)	Index

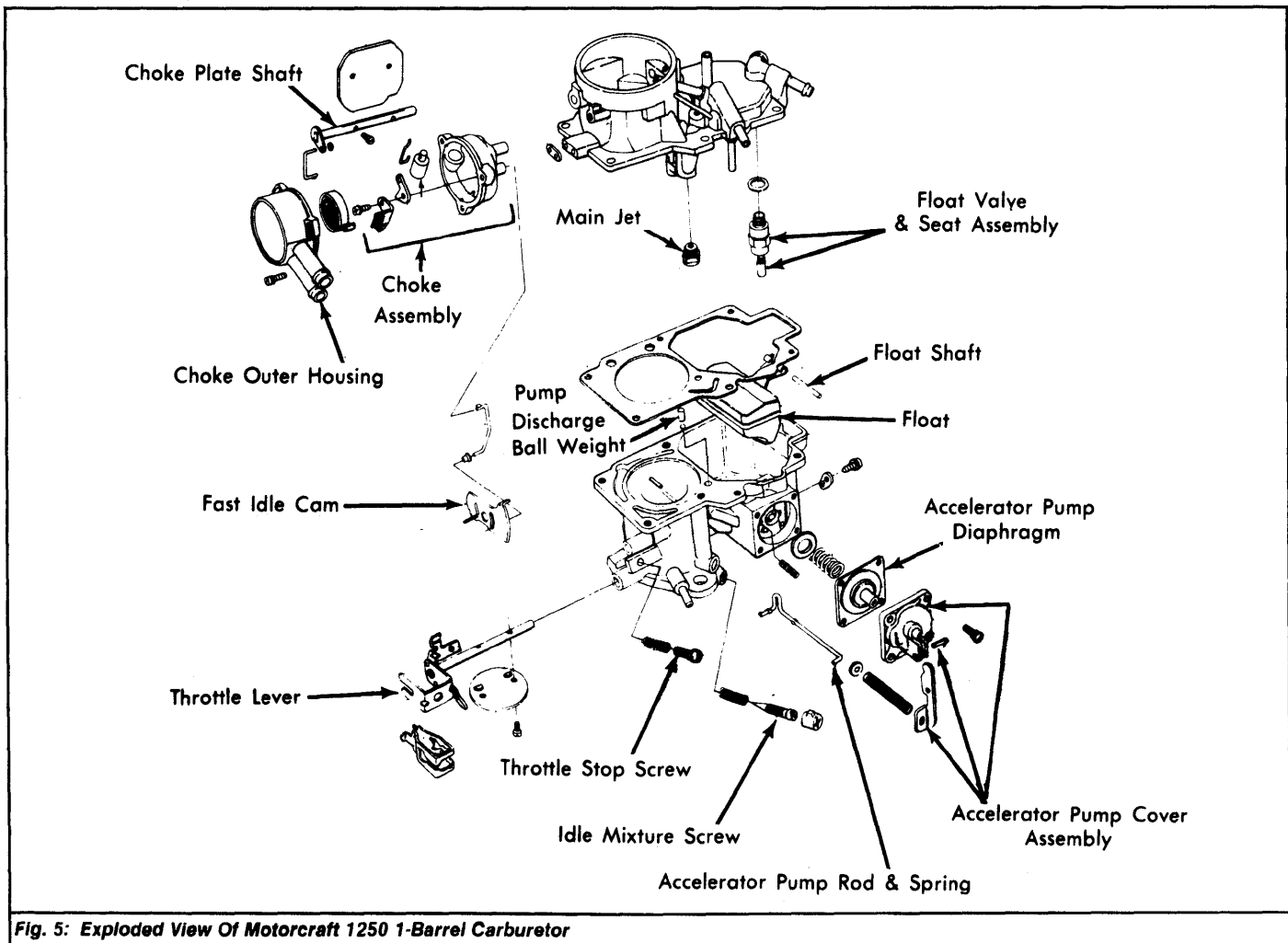


Fig. 5: Exploded View Of Motorcraft 1250 1-Barrel Carburetor