

1974-79 FUEL SYSTEMS

Zenith (Stromberg) CD 1-Barrel Carburetors

Austin: Marina

Jaguar: 1974-77 XJ6, XJS

Jensen-Healey: All

Mercedes-Benz: 1975-78 230

MG: All

Saab: 1974 99

Triumph: All

CARBURETOR IDENTIFICATION

1974 CARBURETOR IDENTIFICATION NUMBERS

Application	Type
Jaguar (All)	175 CD2SE
Jensen-Healey	175 CD2SE
Mercedes-Benz	
230	175 CDT
Saab	175 CD2S
Triumph	
Spitfire	150 CDSEV
TR6	175 CDSEV

1975 CARBURETOR IDENTIFICATION NUMBERS

Application	Type
Austin Marina	150 CD4T, 175 CD5T
Jaguar	
XJ6	175 CD2SET
Mercedes-Benz	
230	175 CDT
MG	
Midget	150 CD4, 150 CD4T
MGB	150 CD4T, 150 CD5T
Triumph	
Spitfire	150 CD4, 150 CD4T
TR6	175 CD2SEV
TR7	175 CD2EV, 175 CD4TV

1976 CARBURETOR IDENTIFICATION NUMBERS

Application	Type
Jaguar	
XJ6	175 CD2SET
Mercedes-Benz	
230	175 CDT
MG	
Midget	175 CD5T
MGB	175 CD4T, 175 CD5T
Triumph	
Spitfire	150 CD4, 150 CD4T
TR6	175 CD2SEV
TR7	175 CD2SEVX, 175 CD4TV

1977 CARBURETOR IDENTIFICATION NUMBERS

Application	Type
Jaguar	
XJ6	175 CD2SET
Mercedes-Benz	
230	175 CDTU
MG	
Midget	150 CD4T
MGB	175 CD5T
Triumph	
Spitfire	150 CD4, 150 CD4T
TR7	175 CDFEVX

1978 CARBURETOR IDENTIFICATION NUMBERS

Application	Type
Mercedes-Benz	
230	175 CDTU
MG	
Midget	150 CD4T
MGB	175 CD5T
Triumph	
Spitfire	150 CD4T
TR7	175 CDFEVX
TR8	175 CDSET

1979 CARBURETOR IDENTIFICATION NUMBERS

Application	Type
MG	
Midget	150 CD4T
MGB	175 CD5T
Triumph	
Spitfire	150 CD4T
TR7	2-175 CDFVX

DESCRIPTION

The Zenith-Stromberg CD type carburetor is a constant depression carburetor, which operates on the principle of varying effective areas of choke and jet openings. This variation depends upon the degree of throttle opening, engine speed and engine load requirements.

ADJUSTMENTS

IDLE SPEED & MIXTURE

See appropriate TUNE-UP PROCEDURES article.

COLD (FAST) IDLE RPM

See appropriate TUNE-UP PROCEDURES article.

FLOAT LEVEL

With float cover removed and carburetor body inverted, measure distance from gasket surface of body to highest point of float. Distance should be .624-.672" (16-17 mm).

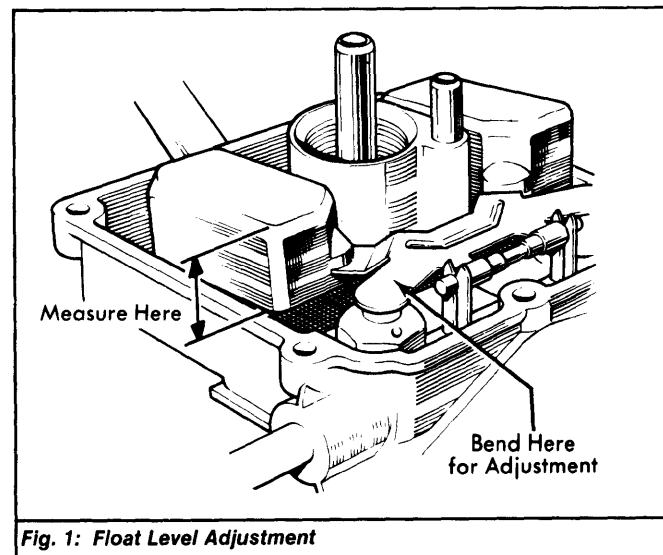


Fig. 1: Float Level Adjustment

ALTITUDE COMPENSATION

1977 Mercedes-Benz Federal 230 Models - 1) Two markings are found on small hand-wheel attached to carburetor. These markings read "NORMAL" and "4000 ft.". When hand-wheel is moved clockwise, fuel nozzle is moved upward to lean out fuel mixture.

2) Set hand-wheel to normal setting for vehicles operating at levels lower than 4000 feet. Set hand-wheel to 4000 foot setting for vehicles operating above that level. Recheck idle speed and CO% level after adjusting altitude compensator.

OVERHAUL

NOTE: Disassembly and reassembly procedures will vary slightly between carburetors. Some carburetors may not have all parts mentioned in the following procedures, which are based on 150 CD4 carburetor.

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Zenith (Stromberg) CD 1-Barrel Carburetors (Cont.)

DISASSEMBLY

- 1) Remove damper cap. Reach in through air filter side of carburetor bore and with finger, raise piston while carefully lifting oil retainer cap (on damper rod).
- 2) Pull plug out of bottom of float chamber and drain fuel and oil from carburetor. Remove "O" ring on float bowl plug. Remove screws securing float chamber to bottom of carburetor.
- 3) Remove float assembly by gently prying float shaft out of clip on carburetor body. Remove needle valve and washer. Remove screws securing top cover to body. Remove top cover, spring and air valve assembly.
- 4) From air valve assembly, remove screws securing diaphragm and retaining ring. Loosen set screw holding needle in air valve and Insert Needle Remover (S353) into stem of air valve. Turn remover counterclockwise 2 turns, withdrawing needle assembly by pulling straight upward.

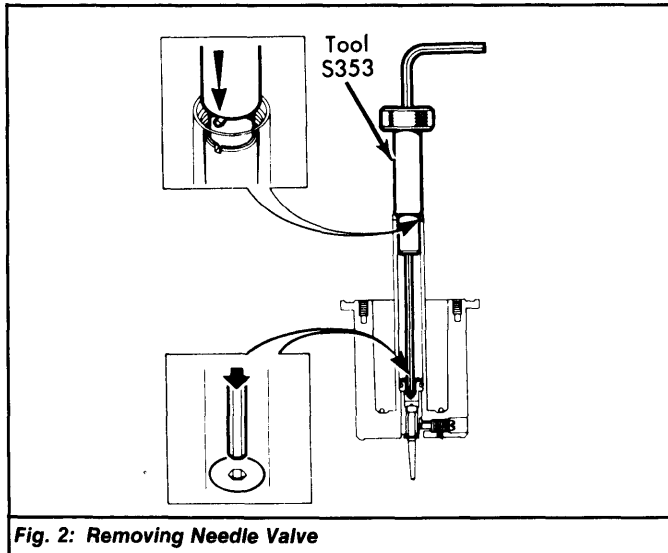


Fig. 2: Removing Needle Valve

- 5) Remove choke retaining screws and remove choke assembly from side carburetor body. From removed choke assembly, remove EGR air bleed valve, nut and lock washer from choke spindle, choke cable lever, fast idle cam, and choke (starter) disc.
- 6) Remove screws securing idle air regulator. Remove screws securing deceleration by-pass valve. From deceleration by-pass valve body, remove screws in base plate, spring, valve and gaskets.
- 7) Remove star washer to release adjustment screw from valve housing. Remove "O" ring seal from adjustment screw and unscrew lock nut. Remove split pin and withdraw clevis pin and washers to disconnect throttle linkage from throttle spindle lever. Remove throttle lever.

CLEANING & INSPECTION

Wash parts in carburetor cleaner (solvent). DO NOT soak any components containing rubber, leather, or plastic. Soak components long enough to thoroughly clean all surfaces and passages of foreign matter. Remove any residue after cleaning components in solvent. Blow out all fuel passages dry with compressed air. Inspect all parts for wear or damage and replace as necessary.

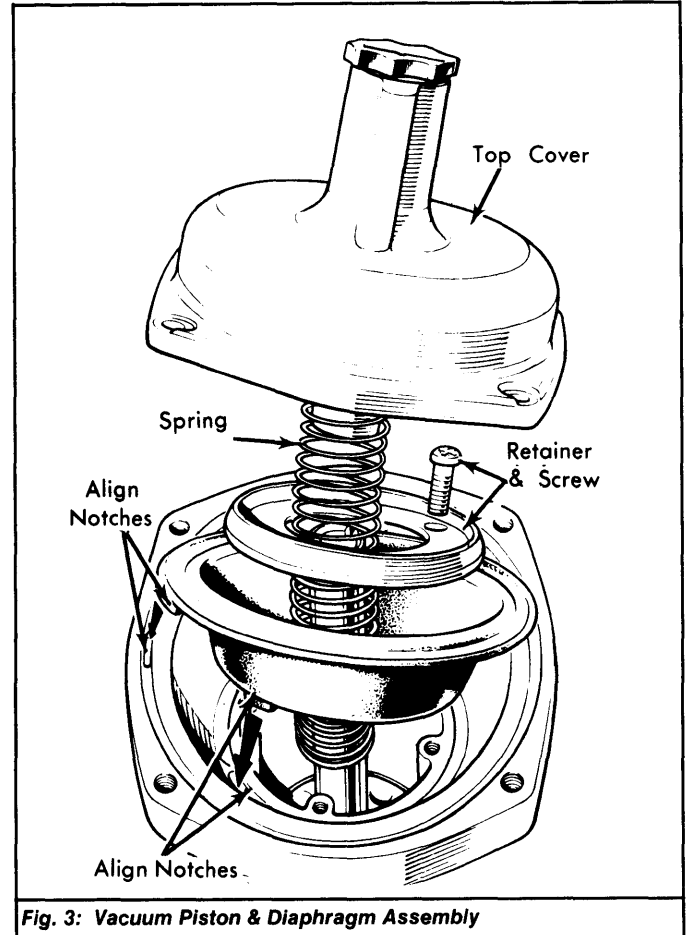


Fig. 3: Vacuum Piston & Diaphragm Assembly

REASSEMBLY

- 1) To reassemble, reverse disassembly procedure. When fitting deceleration valve, ensure that spring register is toward valve body. Refit disc assembly to choke body, ensuring that lug with detent ball is between slot of disc and largest series of holes. Refit cam lever and choke cable lever (to choke body) ensuring that cam lever is located on detent ball.
- 2) When installing air valve needle assembly, turn needle remover clockwise to engage threads of needle valve assembly with adjusting screw. Continue to turn until slot in needle housing is aligned with set screw. Tighten set screw carefully.
- 3) When fitting diaphragm to air valve, locate inner tag of diaphragm into recess of air valve. Now fit diaphragm retaining ring and secure with screws. Fit air valve assembly to carburetor body, by locating outer tag and rim of diaphragm with complimentary recesses of body. Fit carburetor top cover with bulge on housing neck toward air intake.
- 4) Fill carburetor damper dashpot with lightweight engine oil or Dexron automatic transmission fluid. Fill until resistance is felt to insertion of damper piston when screw cap of damper piston is about .25" (6 mm) above top cover.

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Zenith (Stromberg) CD 1-Barrel Carburetors (Cont.)

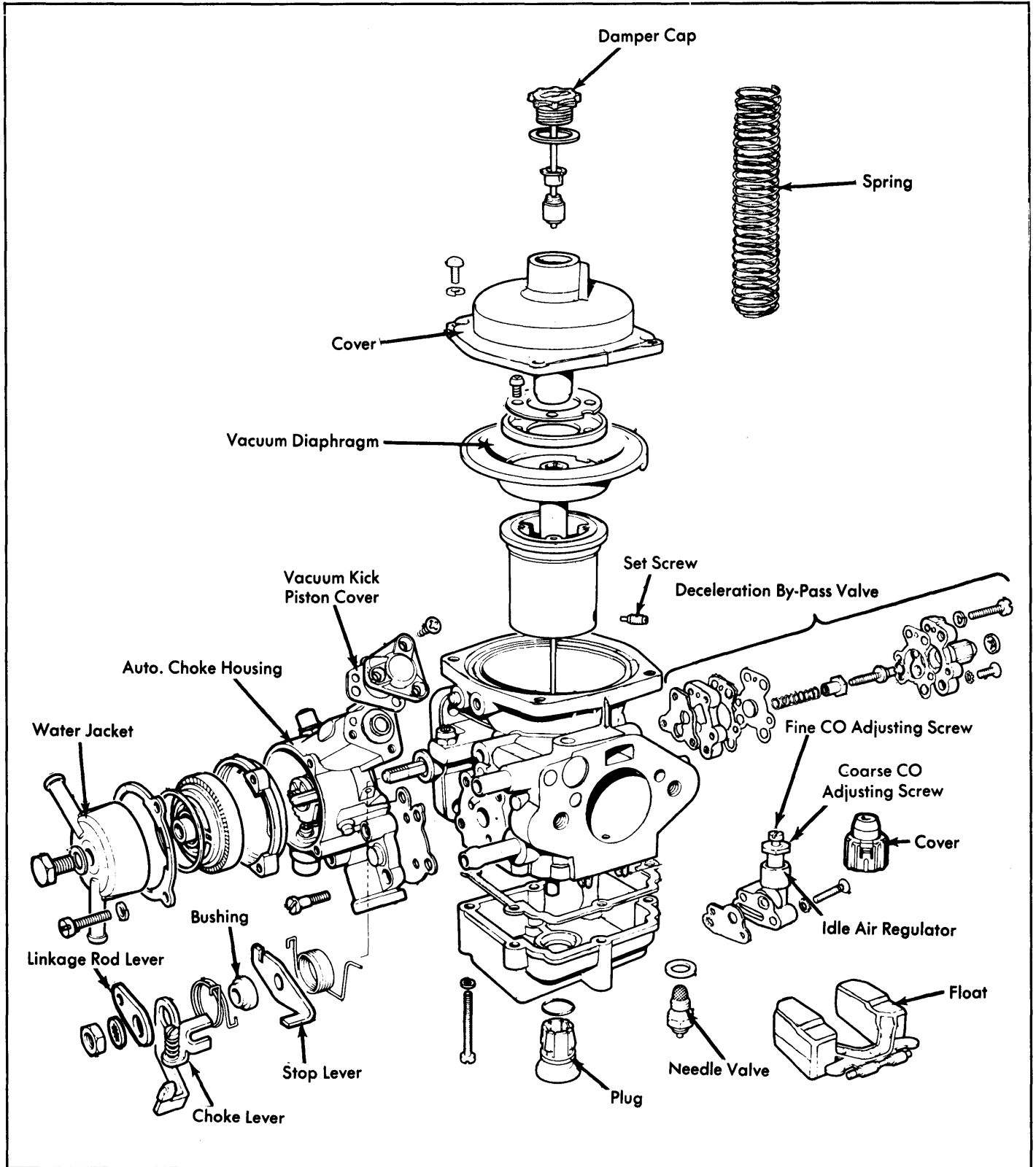


Fig. 5: Exploded View of Zenith-Stromberg CD4 Carburetor

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Zenith (Stromberg) CD 1-Barrel Carburetors (Cont.)

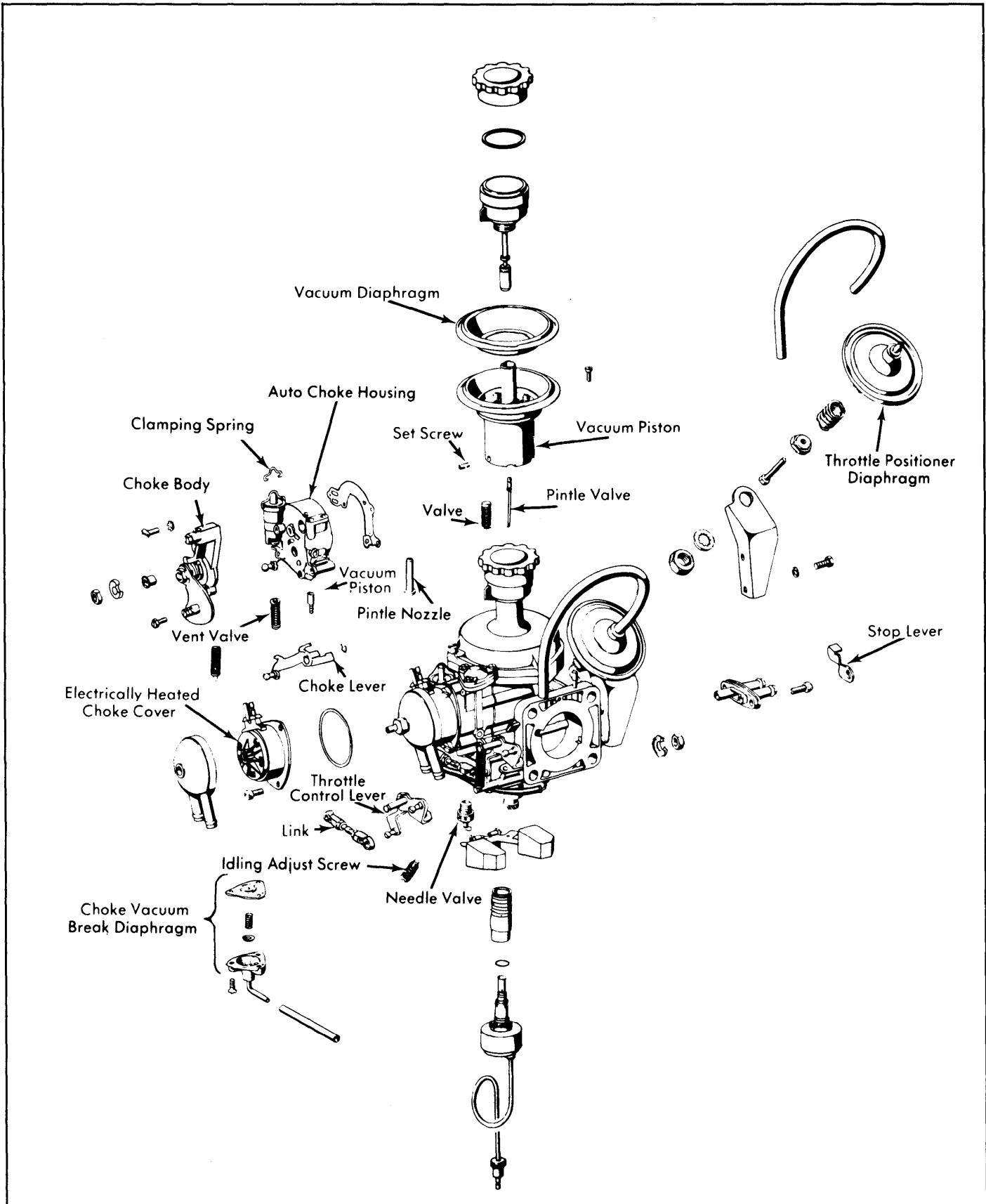


Fig. 6: Exploded View of Zenith-Stromberg CD4T Carburetor