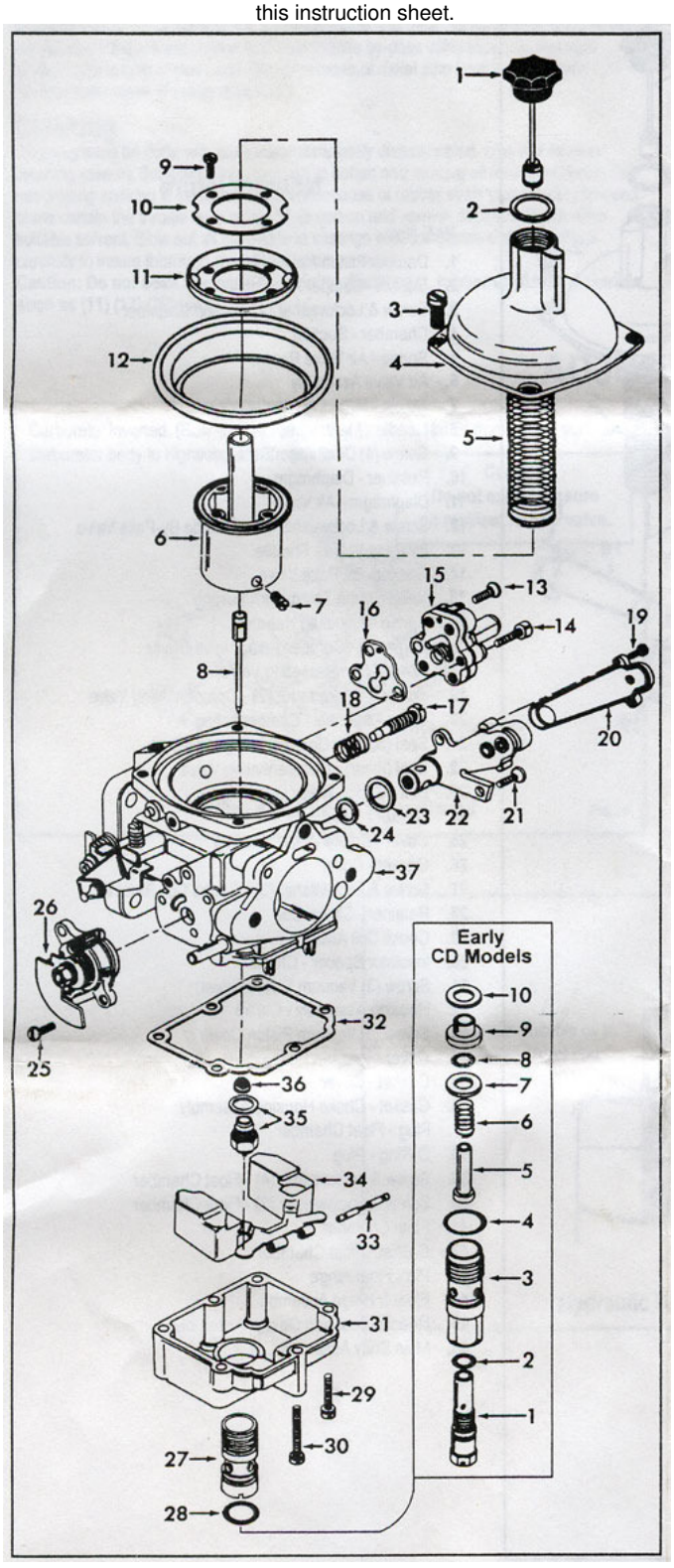
INSTRUCTION SHEET

(Zenith) Stromberg Carburetor – Model "CD", "CDSE"

General Exploded View

The general design and parts shown will vary to individual units covered on this instruction sheet.



Disassembly

Use the exploded view as a guide. Always disassemble carburetors individually as parts should not be interchanged. The numerical sequence may generally be followed to disassemble unit far enough to permit cleaning and inspection. **Caution:** Suction chamber and piston assemble unit far enough to permit cleaning and inspection. Caution: Suction chamber chamber and piston assembly are precision made and must not be treated roughly. Do not remove Philips head screws that hold throttle by – pass valve together. Remove slotted ones only to remove unit. Do not remove bi metal strip from temperature compensator valve. (Factory adjusted.)

Nomenclature

Ref.No.

1. Damper Piston Assembly
2. Gasket – Damper Assembly
3. Screw & Lockwasher (4) Suction Chamber
4. Chamber – Suction
5. Spring – Air Valve Return
6. Air Valve Assembly
7. Screw – Metering Needle Lock
8. Needle – Metering
9. Screw (4) Diaphragm Retainer
10. Retainer – Diaphragm
11. Retainer Ring – Diaphragm
12. Diaphragm – Air Valve
13. Screw & Lockwasher (slotted) - Throttle By – Pass Valve
14. Screw & Lockwasher (2) (slotted) - Throttle By – Pass Valve
15. By – Pass Valve – Throttle
16. Gasket – By – Pass Valve
17. Needle – Idle Trimming Adjusting
18. Spring – Adjusting Needle
19. Screw (2) – Compensating Valve Cover
20. Cover – Compensating Valve
21. Screw & Lockwasher (2) - Compensating Valve
22. Valve Assembly – Compensating
23. Seal (outer) – Compensating Valve

Ref.No.

24. Seal (inner) – Compensating Valve
25. Screw & Lockwasher (2) Staring Valve
26. Valve Assembly – Starting
27. Jet Cover
28. O-Ring – Jet Cover
29. Screw & Lockwasher (2) – Float Chamber
30. Screw & Lockwasher (4) – Float Chamber
31. Float Chamber
32. Gasket – Float Chamber
33. Pin – Float Hinge
34. Float & Hinge Assembly
35. Needle, Seat & Gasket Assembly
36. Screen – Fuel Filter
37. Main Body Assembly

EARLY CD MODELS

1. Screw – Adjusting Orifice
2. O – Ring – Adjusting Screw
3. Bushing Retaining Screw
4. O – Ring – Bushing Screw
5. Jet – Orifice
6. Spring – Jet Orifice
7. Washer – O – Ring
8. O – Ring – Jet Seal
9. Bushing – Jet Orifice
10. Washer – Bushing

Cleaning

Cleaning must be done with carburetor completely disassembled. Use a carburetor cleaning solvent. Soak parts long enough to soften and remove all foreign material. Do not prolong soaking in carburetor cleaner because of rubber seals that are not removed. Make certain the throttle bore is free of all carbon and varnish deposits. Rinse off in suitable solvent. Blow out all passages in castings with compressed air and check carefully to insure through cleaning of obscure areas.

Caution: Do not soak any parts containing diaphragm, rubber or plastic materials, such as (12) (15) (22) (34).

Reassembly

Reassemble in reverse order of disassembly. Note special instructions and follow numerical outline in making adjustments.

Special Instructions

Lightly lubricate O – ring before assembling.

Idle trimming screw (17) – Turn in until lightly seated. Only used when fine idle adjustment is made with co meter.

Diaphragm mounting (12) – be sure locating lip engages corresponding recess in piston and inner edge fits easily into matching groove of piston. Be careful not to twist diaphragm when tightening screws. When installing complete assembly in main body be sure that outer locating lip of diaphragm engages matching recess in housing.

Piston assembly (6) – Lubricate piston rod lightly before installing. (Lubricate no other part of piston.)

Choke limiting spindle adjustment 0 winter setting, stop cross pin in horizontal slot in casting. Summer setting, depress spring loaded pin and turn 90°.

"CD" Models with mixture adjusting screw

Air valve setting on bridge of throttle bore. Turn mixture screw (1) in until it just touches air valve, then back out 3 turns. (Basic setting) When engine is started and reaches operating temperature. Adjust idle stop screw to 600 – 650 R.P.M. should remain the same or fall slightly on lifting air valve. To adjust turn mixture screw, clockwise is learner and counterclockwise is richer.

Sierra

INSTRUCTION SHEET

Stromberg Carburetor – Model "CD"

(with automatic choke)

General Exploded View

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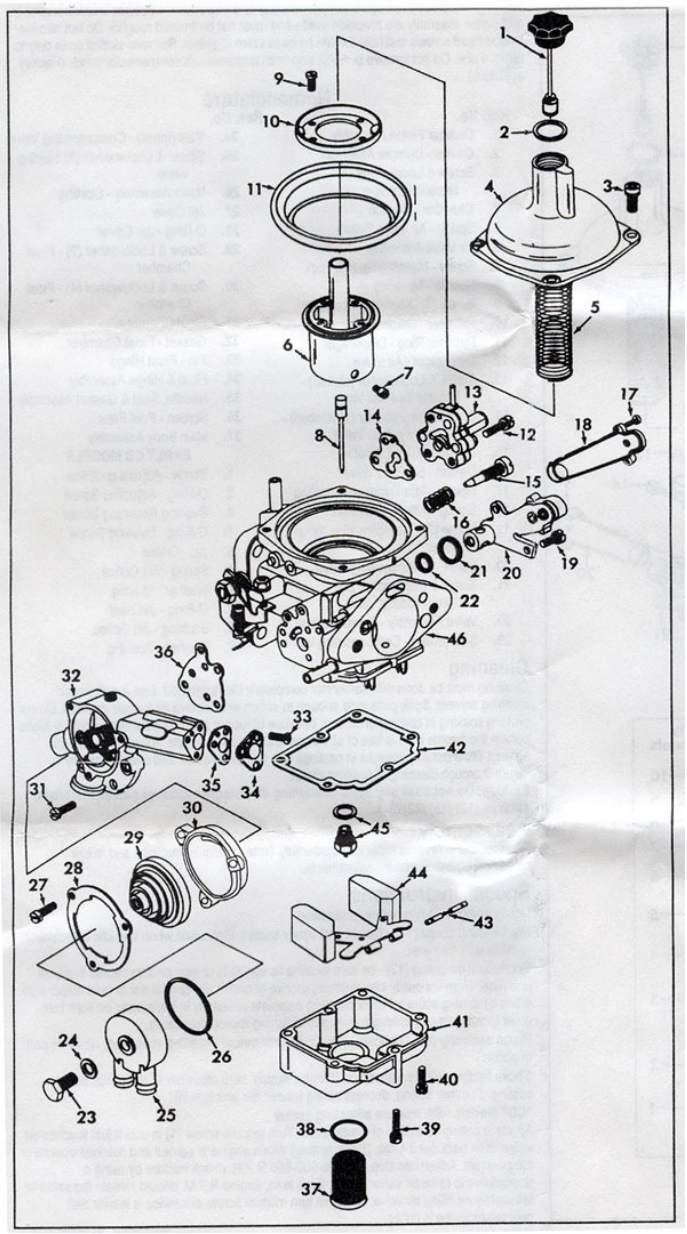

Nomenclature

Ref.No.

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3. Screw & Lockwasher (4) Suction Chamber
4. Chamber – Suction
5. Spring – Air Valve Return
6. Air Valve Assembly
7. Screw – Metering Needle Lock
8. Needle – Metering
9. Screw (4) Diaphragm Retainer
10. Retainer – Diaphragm
11. Diaphragm – Air Valve
12. Screw & Lockwasher (3) – Throttle By – Pass Valve
13. By – Pass Valve – Throttle
14. Gasket – By – Pass Valve
15. Needle – Idle Trimming Adjusting
16. Spring – Adjusting Needle
17. Screw (2) – Compensating Valve Cover
18. Cover – Compensating Valve Cover
19. Screw & Lockwasher (2) – Compensating Valve
20. Valve Assembly – Compensating Valve
21. Seal (outer) – Compensating Valve
22. Seal (inner) – Compensating Valve
23. Bolt – Choke Water Cover
24. Gasket – Bolt
25. Cover – Choke Water Housing
26. Gasket – Cover
27. Screw & Lockwasher (3) – Choke Coil Retainer
28. Retainer – Choke Coil
29. Choke Coil Assembly
30. Insulator Spacer – Choke
31. Screw (3) Vacuum Piston Cover
32. Housing Assembly – Choke
33. Screw (3) Vacuum Piston Cover
34. Cover – Vacuum Piston
35. Gasket – Cover
36. Gasket – Choke Housing Assembly
37. Plug – Float Chamber
38. O – Ring – Plug
39. Screw & Lockwasher (4) – Float Chamber
40. Screw & Lockwasher (2) – Float Chamber
41. Float Chamber
42. Gasket – Float Chamber
43. Pin – Float Hinge
44. Float & Hinge Assembly
45. Needle, Seat and Gasket Assembly
46. Main Body Assembly

Disassembly

Use the explode view as a guide. Always disassemble carburetors individually as parts should not be interchanged. The numerical sequence may generally be followed to disassemble unit far enough to permit cleaning and inspection. Caution: Suction chamber and piston assembly are precision made and must not be treated roughly. Do not remove Philips head screws that hold throttle by – pass valve together. Remove slotted ones only to remove unit. Do not remove bi metal strip from temperature compensator valve. (Factory adjusted.)

Cleaning

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Caution: Do not soak any parts containing diaphragm, rubber or plastic materials, such as (11) (13) (20) (44).

Reassembly

Reassemble in reverse order of disassembly. Note special instructions and follow numerical outline in making adjustments.

Special Instructions

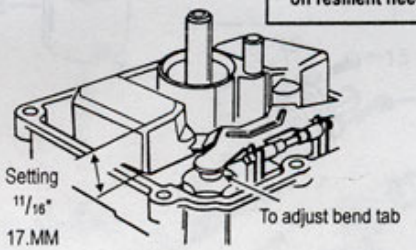
Lightly lubricate O – ring before assembling.
Idle trimming screw (15) – Turn in until lightly seated. Only used when fine idle adjustment is made with co meter.

Diaphragm mounting (11) – be sure locating lip engages corresponding recess in piston and inner edge fits easily into matching groove of piston. Be careful not to twist diaphragm when tightening screws. When installing complete assembly in main body be sure that outer locating lip of diaphragm engages matching recess in housing. Piston assembly (6) – Lubricate piston rod lightly before installing. (Lubricate no other part of piston.)

ADJUSTMENTS

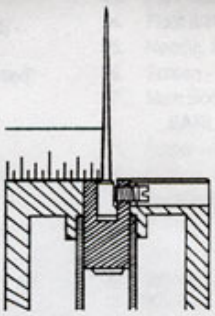
Carburetor inverted. (Bowl gasket removed) measure distance from gasket surface of carburetor body to highest point of each float.

Caution
Do not exert pressure on resilient needle valve.

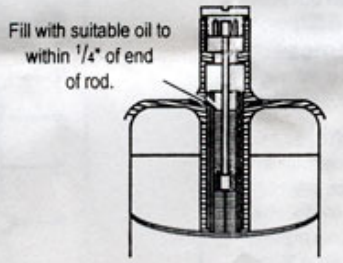


Dry Float Level Adjustment FIG. 1

Install needle with flat side of bushing facing set screw align shoulder or plastic washer of needle bushing with flat surface or air valve and tighten set screw. (Do not overtighten)



Metering Needle Position FIG. 2



Hydraulic Damper (Oil Level) FIG. 3