INSTRUCTION SHEET
Mercarb Two-Barrel

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. The numerical sequence may generally be followed to disassemble unit far enough to permit cleaning and inspection.

Nomenclature
Ref.No. | Ref.No.
--- | ---
1. Screw, Choke Housing | 28. Gasket, Bowl Cover
2. Choke Housing Assembly | 29. Fitting, Fuel Inlet
3. Gasket, Choke Housing | 30. Gasket, Fuel Inlet
5. Lever | 32. Spring, Fuel Filter
6. Screw, Fast Idle Cam | 33. Filter
7. Fast Idle Cam | 34. Power Valve Assembly
8. Choke Rod | 35. Gasket, Power Valve
10. Screw, Bowl Cover (Long) | 37. Gasket, Jet
11. Screw, Bowl Cover (Short) | 38. Screw, Venturi Assembly
12. Bowl Cover Assembly | 39. Screw, Venturi Center
13. Pin, Float | 40. Lockwasher
14. Float | 41. Gasket
15. Needle & Seat Assembly | 42. Gasket
16. Pump Shaft & Lever Assembly | 43. Venturi Cluster
17. Screw, Pump Shaft Assembly | 44. Gasket, Venturi Cluster
18. Washer, Pump Shaft | 45. Flat Bowl Assembly
19. Retainer, Pump Shaft | 46. Screw, Throttle Body
20. Accelerator Pump Assembly | 47. Lockwasher
22. Retainer, Spring | 49. Throttle Body
23. Strainer | 50. Needle, Idle Mixture
24. Check Ball | Adjusting
25. Accelerator Pump Lever | 51. Spring, Idle Mixture
26. Washer, Inner | Screw
27. Washer, Outer | 52. Screw, Idle Speed
28. Gasket, Bowl Cover | Adjusting
29. Fitting, Fuel Inlet | 53. Spring, Idle Speed Screw
30. Gasket, Fuel Inlet | 54. Screw, idle Mixture
31. Gasket, Fuel Inlet | Adjusting
32. Spring, Fuel Filter | 55. Screw, idle Mixture
33. Filter | Adjusting
34. Power Valve Assembly | 56. Screw, idle Mixture
35. Gasket, Power Valve | Adjusting
36. Jet | 57. Screw, idle Mixture
37. Gasket, Jet | Adjusting
38. Screw, Venturi Assembly | 58. Screw, idle Mixture
39. Screw, Venturi Center | Adjusting
40. Lockwasher | 59. Screw, idle Mixture
41. Gasket | Adjusting
42. Gasket | 60. Needle, Idle Mixture
43. Venturi Cluster | Adjusting
44. Gasket, Venturi Cluster | 61. Spring, Idle Mixture
45. Flat Bowl Assembly | Screw
46. Screw, Throttle Body | 62. Screw, idle Mixture
47. Lockwasher | Adjusting
48. Gasket, Throttle Body | 63. Screw, idle Mixture
49. Throttle Body | Adjusting
50. Needle, Idle Mixture | 64. Spring, Idle Mixture
51. Spring, Idle Mixture | Screw
52. Screw, Idle Speed | 65. Screw, idle Mixture
53. Spring, Idle Speed Screw | Adjusting
54. Screw, idle Mixture | 66. Screw, idle Mixture
55. Screw, idle Mixture | Adjusting
56. Screw, idle Mixture | 67. Screw, idle Mixture
57. Screw, idle Mixture | Adjusting
58. Screw, idle Mixture | 68. Screw, idle Mixture
59. Screw, idle Mixture | Adjusting
60. Needle, Idle Mixture | 69. Screw, idle Mixture
61. Spring, Idle Mixture | Adjusting
62. Screw, idle Mixture | 70. Screw, idle Mixture
63. Screw, idle Mixture | Adjusting
64. Screw, idle Mixture | 71. Screw, idle Mixture
65. Screw, idle Mixture | Adjusting
66. Screw, idle Mixture | 72. Screw, idle Mixture
67. Screw, idle Mixture | Adjusting
68. Screw, idle Mixture | 73. Screw, idle Mixture
69. Screw, idle Mixture | Adjusting
70. Screw, idle Mixture | 74. Screw, idle Mixture
71. Screw, idle Mixture | Adjusting
72. Screw, idle Mixture | 75. Screw, idle Mixture
73. Screw, idle Mixture | Adjusting
74. Screw, idle Mixture | 76. Screw, idle Mixture
75. Screw, idle Mixture | Adjusting
76. Screw, idle Mixture

Cleaning
Cleaning must be done with carburetor disassembled. Use a carburetor cleaning solvent to soak parts long enough to soften and remove all foreign material. Make certain the throttle bores are 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 ensure thorough cleaning of obscure areas.

Reassembly
Reassemble in reverse order of disassembly. Note special instructions and follow numerical outline in making adjustments necessary for carburetor being serviced.

Special Instructions
Idle adjusting needles: Turn each needle in lightly until seated, then back out two turns. (Do not install idle limiter caps at this time.)
ADJUSTMENTS
See data table for measurements

<table>
<thead>
<tr>
<th>Cyl.</th>
<th>Model/Engine</th>
<th>Carburetor Number</th>
<th>Float Level</th>
<th>Float Drop</th>
<th>Pump Rod</th>
<th>Choke Setting</th>
<th>Choke Unloader</th>
<th>Float Weight</th>
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<td>4</td>
<td>MCM 120/140</td>
<td>1389-8490A2</td>
<td>9/16&quot; (14mm)</td>
<td>1 3/32&quot; (27mm)</td>
<td>29mm</td>
<td>Index</td>
<td>5/64&quot; (2mm)</td>
<td>9 Grams</td>
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<td>Solid – Needle</td>
<td>3/8&quot; (10mm)</td>
<td>1 3/32&quot; (27mm)</td>
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<td>MCM 2.5L/3.0L</td>
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<td>9 Grams</td>
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Note: On four cylinder engines experiencing flooding or rough idle, if all components and specifications are okay, it may be necessary to change to the spring – loaded needle and seat assembly. Float level for this type of needle and seat is 9/16" (14mm).