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| 1. Choke flap                          | 24. Needle seating washer                | 51. Throttle flap screws                  |
| 2. Choke tube                          | 25. Needle and seating assembly          | 52. Throttle flap                         |
| 3. Pump stop                           | 26 and 28. Bowl gaskets                  | 53. Throttle stop micro screw             |
| 4. Bowl attaching screw                | 29. Spring                               | 54. Spring                                |
| 5. Lockwasher                          | 30. Mixture volume control screw         | 55. Interconnection rod—choke to throttle |
| 6. Emulsion block gasket               | 31. Choke spindle spring                 | 56. Floating lever                        |
| 7. Emulsion block ventilation screw    | 32. Choke spindle and lever              | 57. Throttle lever                        |
| 8. Emulsion block                      | 33. Choke flap attaching screws          | 58 and 59. Lockwasher and nut             |
| 9. Compensating jet                    | 34. Pump lever pivot washer              | 60. Throttle stop lever                   |
| 10. Main jet                           | 35. Pump rod lever                       | 61. Plain washer                          |
| 11. Slow running jet plug              | 36. Pump lever pivot screw               | 62. Throttle spindle                      |
| 12. Slow running jet                   | 37. Pump rod spring                      | 63. Interconnection rod—throttle to pump  |
| 13. Pump ball valve                    | 38. Pump lever spring                    | 64. Choke tube attaching screw            |
| 14. Pump piston                        | 39. Choke control lever                  | 65. Tab washer                            |
| 15. Pump spring                        | 40 and 42. Choke lever connection screws | 66. Carburettor body                      |
| 16. Pump check valve                   | 41. Choke lever pivot screw              | 67. Economy valve diaphragm spring        |
| 17. Float arm and pivot assembly       | 43. Choke lever spring                   | 68. Cover                                 |
| 18. Float                              | 44. Choke control bracket screw          | 69. Cover attaching screw                 |
| 19. Bowl                               | 45. Lockwasher                           | 70. Lockwasher                            |
| 20. Pump piston stop screw             | 46. Choke control bracket                | 71. Gaskets                               |
| 21. Pump jet                           | 47. Clip screw                           | 72. Diaphragm                             |
| 22. Emulsion block attaching screw     | 48. Choke control clip                   |   |
| 23 and 27. Gasket Parker fixing screws | 49 and 50. Lockwasher and nut            |   |

Exploded view of the Zenith 34 VN carburetor.