**Note:** Before proceeding with carburetor adjustment, verify that all ignition components are working properly, including checking engine timing. Also check for adequate fuel pressure, clean air filter element, and that there are no vacuum leaks.

### PARTS LIST

1. Throttle Body Assembly
2. Main Body Assembly
3. Air Horn Assembly
4. Throttle Body Gasket
5. Air Horn Gasket
6. Throttle Return Spring
7. Pump Connector Link
8. Throttle Shaft Arm
9. Throttle Return Spring Bushing
10. Throttle Body Screw (3)
11. Short Air Horn Screw & Lock Washer (4)
12. Limiter Cap
13. Idle Mix Screw
14. Idle Mix Spring
15. Pump Lifter Link
16. Pump Housing Screw & Lock Washer (4)
17. Metering Rod Spring
18. Lower Pump Spring
19. Lower Pump Spring Retainer
20. Metering Arm Assembly
21. Upper Pump Spring
22. Upper Pump Spring Retainer
23. Throttle Shaft Assembly
24. Throttle Plate
25. Outlet Check Weight
26. Outlet Check Ball
27. Choke Rod
28. Fast Idle Cam
29. Fast Idle Cam Screw
30. Metering Rod
31. Baffle Plate
32. Splash Cover
33. Splash Gasket
34. Float Pin
35. Float
36. Needle Seat Assembly
37. Throttle Plate Screw (2)
38. Accelerator Pump Assembly
39. Choke Cover Screw (3)
40. Choke Cover Retainer (3)
41. Choke Cover / Spring Assembly
42. Choke Cover Gasket
43. Choke Baffle Plate
44. Choke Shaft Assembly
45. Air Cleaner Bracket Screw (2)
46. Air Cleaner Bracket
47. Choke Plate Screw & Lock Washer (2)
48. Choke Plate
49. Long Air Horn Screw & Lock Washer (3)
50. Choke Lever
51. Choke Fitting
REQUIRED ADJUSTMENTS AFTER CARBURETOR INSTALLATION

Automatic Choke Adjustment

Choke Cover Screws

1) Check that engine is starting cold. Adjustment applies for cold engine only.

2) Loosen the Choke Cover Screws and adjust the Choke Cover to obtain the desired cold start mixture.

Note: If engine is flooding during startup, hold the choke open manually to start the engine and then adjust the choke.

Idle Speed Adjustment

Fast Idle Cam

1) Run the engine a minimum of 20 min at 1500 RPM to reach operating temperature.

2) Verify that the choke is in the full-open position and the Fast Idle Screw is not touching the Fast Idle Cam.

3) Turn the headlights on.

4) Adjust the Curb Idle Screw to obtain the recommended engine idle speed of 800 RPM.

Note: Idle Speed and Idle Mixture adjustments can be done at the same time to prevent engine stall due to a too lean or too rich air/fuel mixture at idle.

Idle Mixture Adjustment

Idle Mix Screw

1) Verify that Idle speed is set to 800 RPM and engine is warmed up to operating temperature.

2) Remove limiter cap and adjust the Idle Mix Screw until engine idle is smoothest (turn in for lean or out for rich). Reinstall limiter cap when done.

Alternative to Step 2: Attach a vacuum gauge to read manifold vacuum. Remove the limiter cap and adjust the Idle Mix Screw until the gauge reads a steady vacuum between 17-21 in-Hg. Reinstall limiter cap when done.

Fast Idle Speed Adjustment

Fast Idle Cam

1) Verify that both Idle speed and mixture have been properly adjusted and engine is warmed up to operating temperature.

2) Place the Fast Idle Screw on the top step of the Fast Idle Cam as shown above.

3) Adjust the Fast Idle Screw to obtain the required fast idle RPM.
**ADVANCED SETTINGS**

To be performed by experienced users only. Use only if carburetor is malfunctioning.

---

**Float Level Adjustment**

1) Turn the Air Horn Assembly upside down without gasket and allow the Float Hinge to touch the Needle Pin without compressing the spring. **DO NOT** exert pressure.

2) Bend the Float Hinge so the distance is equal to 0.98” as shown above.

---

**Float Drop Adjustment**

1) Hold the Air Horn Assembly horizontally in the upright position as shown above, without gasket and allow the float to hang free.

2) Bend the Float Tab so the distance is equal to 1.50” as shown above.

---

**Float Level Adjustment**

1) Turn the Air Horn Assembly upside down without gasket and allow the Float Hinge to touch the Needle Pin without compressing the spring. **DO NOT** exert pressure.

2) Bend the Float Hinge so the distance is equal to 0.98” as shown above.

---

**Float Drop Adjustment**

1) Hold the Air Horn Assembly horizontally in the upright position as shown above, without gasket and allow the float to hang free.

2) Bend the Float Tab so the distance is equal to 1.50” as shown above.

---

**Metering Rod Assembly Adjustment Process**

1) Back out Curb Idle Screw until Throttle Plate is fully closed.

2) Press down on the Pump Plunger all the way and hold.

3) Turn Metering Adjustment Screw counterclockwise until the Metering Rod just bottoms the casting (don’t move anymore)

4) Turn the Metering Adjustment Screw clockwise until it contacts Pump Lifter Link, then in 1 additional turn.

---

**Metering Rod Assembly Adjustment Process**

1) Back out Curb Idle Screw until Throttle Plate is fully closed.

2) Press down on the Pump Plunger all the way and hold.

3) Turn Metering Adjustment Screw counterclockwise until the Metering Rod just bottoms the casting (don’t move anymore)

4) Turn the Metering Adjustment Screw clockwise until it contacts Pump Lifter Link, then in 1 additional turn.