



Figure 2
Float and Choke Systems

1. Fuel Inlet Needle
2. Fuel Inlet
3. Fuel Float Hinge
4. Fuel Bowl
5. Fuel Float
6. Shaft
7. Air Valve
8. Spring
9. Choke Plate
10. Main Discharge Nozzle

This mixture travels up the idle passage to the idle orifice where it is regulated by the idle adjusting screw. The flow of fuel is the result of a differential in pressure created by the intake vacuum. As the throttle plate is opened, the idle transfer orifice is exposed to the reduced pressure and the fuel and air mixture is discharged out of both ports.

MAIN METERING SYSTEM

The main metering system, Figure 4, supplies fuel during all phases of engine operation above the operating range of the idle system. As the throttle plate is opened and air flow increases, a partial vacuum is created in the venturi of the carburetor.

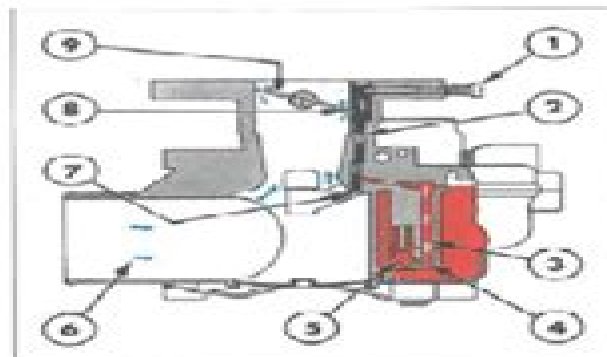


Figure 3
Idle System

- | | |
|---|--|
| Air | Fuel |
| Air-Fuel Mixture | |
1. Idle Fuel
 2. Adjustment Screw
 3. Idle Passage
 4. Idle Well
 5. Idle Feed Restriction
 6. Main Well
 7. Air Horn
 8. Idle Air P Orifice
 9. Throttle Plate

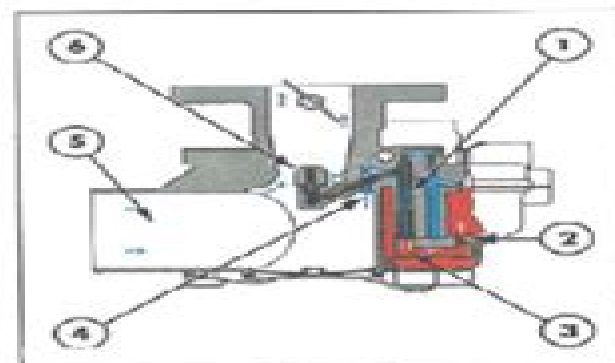


Figure 4
Main Metering System

- | | |
|---|--|
| Air | Fuel |
| Air-Fuel Mixture | |
1. In Well Tube
 2. Main Jet
 3. Main Well
 4. High Speed Air Bleed
 5. Air Horn
 6. Main Discharge

Ford Tractor Service Manual Model 4630

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